



Best ions.

wieland

necessary to meet your most challenging interconnect requirements.

For more than 90 years, Wieland Electric has offered customers the broad product range, worldwide approvals, superior designs, unsurpassed quality, and custom development capabilites necessary to guarantee the most cost-effective, space-saving and time-saving interconnect solutions. More than just terminal blocks, Wieland's total offering includes products from PC board connectors to advanced electronic modules; I/O systems to DIN rail power supplies; and rectangular connectors to hazardous location components.

And more than just products, Wieland has the design support, application assistance and custom solutions

The cornerstone of all Wieland products is the superior design and our philosophy of continuous improvement through innovation. Our high degree of vertical integration and attention to product detail enable our products not only to perform above established standards, but also to minimize the purchase cost as well as associated installation and maintenance costs.

Best by design, best product offering and best support.

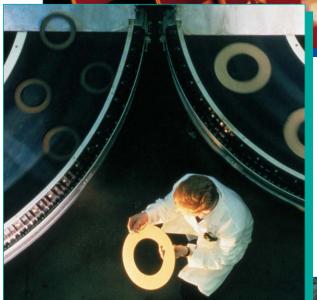
Wieland Best Connections.

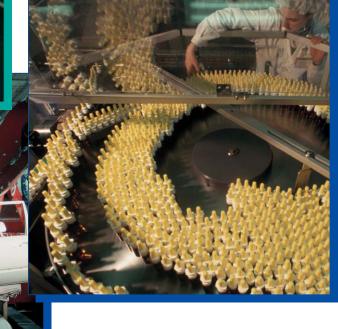
Wieland Products and Industries Supported	Machine Manufacturers	Petrochemical	Heating, Ventalation & Air Conditioning	Process Controls & Instrumentation	Transportation	Water Treatment & Utilities	Telecommunications	Computers & Networking	Packaging & Material Handling	Automotive & Robotics
selos, fasis, taris DIN rail Mountable Terminal Blocks	W	W	W		W	W			W	W
flare Electro-Mechanical & Solid State Relay Modules	W	W	W	W	W	W			W	W
Signal Conditioning & Surge Suppression Modules	W	W	W	W	W	W		W	W	W
ricos Remote Interface Communication System	W	W	W		W	W		W	W	W
wipos DIN Rail Mounted Power Supplies	W		W	W	W	W			W	W
Standard & Custom Interface Modules	W	W	W	W	W	W	W	W	W	W
revos Industrial Multipole Connectors	W	W		W	W	W		W	W	W
Wire Management Products	W	W	W	W	W	W	W	W	W	W
gesis ST Compact Connector System	W		W	W	W			W	W	W
wiecon Pluggable PC Board Terminal Strips		W	W	W	W		W	W		
wiecon Modular PC Board Terminal Strips		W	W	W			W	W		
europa & Compact Panel Mounted Terminal Strips	W	W	W	W	W	W			W	W



wieland

industrial, manufacturing, and process control markets worldwide!





Wieland special products and custom capabilities provide unique solutions for your specific application needs. **For more information** on how **Wieland** products can connect you to your future designs, call **1-800-wieland** or visit us at

www.wielandinc.com

fasis DIN Rail Terminal Blocks - Spring Clamp Connection

Selos DIN Rail Terminal Blocks – Screw Clamp Connection

taris

DIN Rail Terminal Blocks – IDC Connection

appliance TERMINALS

Wiecon PC Board Connectors

electronics

Gesis Connector Systems

revos Industrial Multipole connectors

facts & DATA

contents

DIN rail terminal blocks for TS35, type WKF
Multi-conductor terminal blocks
Application specific terminal blocks
Micro modular feed through blocks for TS15, type WKFM
Terminal blocks for electrical installations, type WKIF

DIN rail terminal blocks for electrical installations, type WKI
DIN rail terminal blocks with U foot, type WK/WKN
Feed through blocks for large cross section conductors
Multi-conductor terminal blocks
Application specific terminal blocks
DIN rail terminal blocks with extruded clamping body for TS35, type 9700A
TOP connector system
Busbar components
Stacking coordinates

DIN rail terminal blocks for TS35, type WKC Multi-conductor terminal blocks with U foot Application specific terminal blocks Hybrid terminal blocks

Terminal strips
Lighting and appliance terminals
Plug/screw terminal strips
Terminal boxes
Divisible terminal strips
Mains connectors for appliance wiring

Pluggable PC board connectors, Insulated headers and pin strip headers, two piece design DIN rail terminal blocks with pluggable connection for PC board connectors
Pluggable PC board connectors, edge card
PC board connectors
PC board connectors, 2-tier version
PC board connectors, 3-tier version
PC board connectors, 4-tier version
Special-purpose connectors, RAST 5 connection style
Feed through modules for control cabinets

Relay modules
Analog signal conditioning
Wieland power supply
Wieland Electronic modules
Wieland interface system
Empty housings for electronic components

Distributed I/O modules

The pluggable electrical system



Separate catalog – please order your copy at:

www.gesis.com info@wielandinc.com

Modular system
3 to 8 pole connectors
High-density connectors
24 pole connectors
Data cable feed through, D-Sub connections, bus system connections, fiber optic
Pg thread cable glands
High amperage connectors
Motor starter components

Standard - 400 V, 500 V, 400/690 V, cable to cable coupling, EMC etc.

Pg threads are still available

Preparation of conductor ends with

- ferrules
- tools

Technical explanations

Tables

Approvals

Table of contents, structured as per

- type description
- part number

General terms of sale and delivery

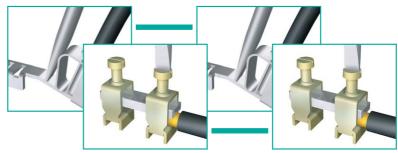




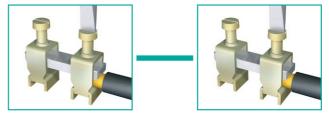


fasis DIN rail terminal blocks – spring clamp connection

BIT = Building Installation **Technology**



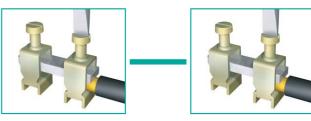
fasis BIT DIN rail terminal blocks – spring clamp connection **SELOS** BIT DIN rail terminal blocks – screw clamp connection



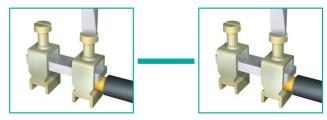
SCIOS DIN rail terminal blocks – screw clamp connection

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SEIOS DIN rail terminal blocks – screw clamp connection



selos CLASSIC LINE

DIN rail terminal blocks – screw clamp connection



taris DIN rail terminal blocks – IDC technology

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Software for DIN rail terminal blocks

wieplan Plan

- ☐ Electronic catalog for terminal block assemblies
- ☐ Via software: drawing/part lists/order data
- ☐ Shopping cart function via www.wieland-electric.com



Part number Software 95.502.1000.0

Manual 05.563.6389.0



Project management

wieplan enables you to clearly manage your projects and part projects.



Select a mounting rail

You can select a mounting rail as per the following characteristcs:

- Type / rail design
- Length
- Solid or slotted

You can also define the length of the rail section left empty in front of the block assembly and the spaces between the individual blocks.

wieplan



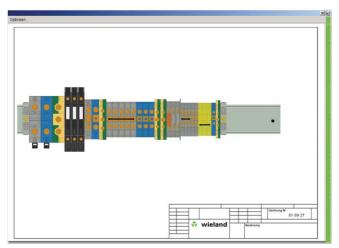
Select an end clamp

You can select the end clamp which matches your selected mounting rail.



Select the terminal blocks

Intuitive selection of terminal blocks based on certain characteristics such as function, current, voltage, cross section or as per block type or part number. After composition of the terminal block assembly, the blocks can be jumpered and/or marked, and further accessories can be added. You are offered the matching accessories for each selection. Plausibility checks are made with regard to end plates, partitions, covers and more.



Print-out and drawing

The completed terminal block assembly can be displayed on the screen in form of a drawing, or it can be exported as a electronic file. The block assembly can also be completely mounted or individual parts can be ordered online.

DIN rail terminal blocks with spring clamp connection, type *WKF*

fasis

Spring clamp connection 0.13 to 16 mm²
Standard DIN rail terminal blocks 2.5 to 16 mm²

Installation terminal blocks 2.5 to 16 mm²

Duo terminal blocks 2.5/4 mm² double/PCB

Multi-tier blocks 1.5 mm²

Disconnect blocks

Initiator/actuator terminal blocks 4 mm²

fasis for TS 35

- with all required accessories
- with snap-on marking accessories
- with DQS certification
- Flammability class accord. to UL 94 V-0/V-2

All Wieland Components which require CE general certification are CE certified, and identified with the CE logo.



DIN rail terminal blocks with spring clamp connection, type WKF



2.5 mm²

4 mm² (10 AWG) 6 mm² (8 AWG)

Feed-through blocks







Neutral feed-through blocks







Ground blocks







Standard DIN Rail Terminal Blocks

1.5 mm² (14 AWG)



4 mm² (10 AWG)



Branch Circuit VB

Feedthrough



Disconnect block with diode plug

Knife edge

disconnect block

Disconnect block with fuse plug

Feed-through and Ground D/SL



Disconnect

Ground



Feed-through blocks

Electronic Component Addition



Neutral disconnect blocks

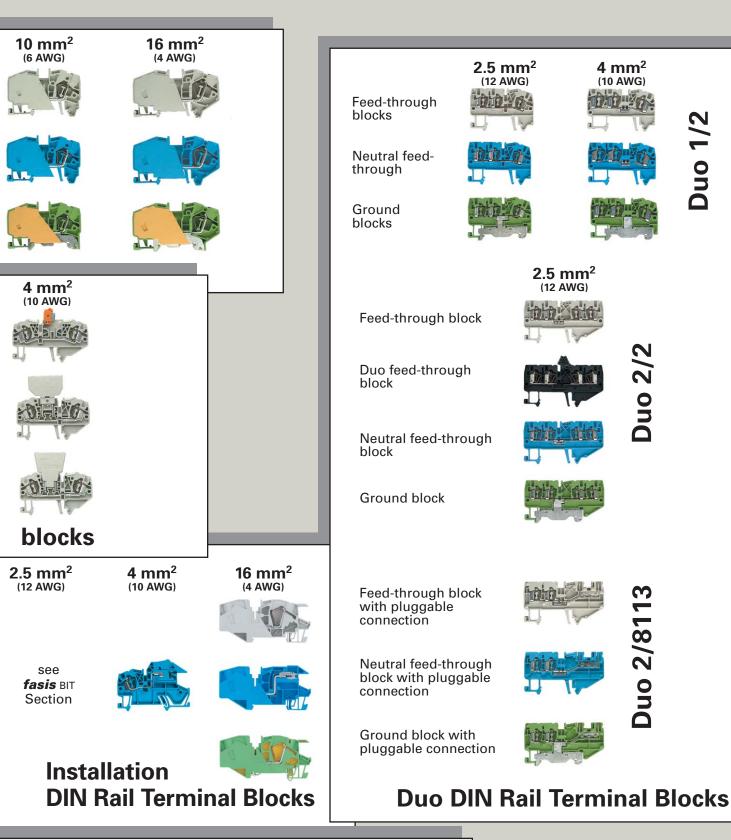
Ground blocks

Double-tier block with pluggable connection



Double-tier blocks

Sensor blocks with/without LED



Sensor and actuator blocks

KOI 3L/SL...

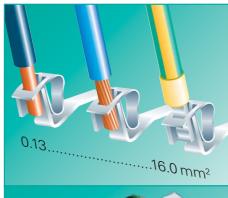
KOA 2L...

KOI 3L...

KOE...

DIN rail terminal blocks with spring clamp connection, type WKF

fasis



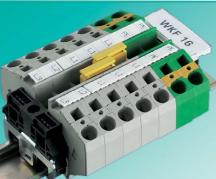
System advantages

□ Spring clamp connection, screwless technology

Separation of electrical and mechanical functions

Application advantages

- → Dynamic connections Protection of the connection against "cold flow" and creep
- → Pre-programmed clamping force The clamping force required to connect the wire, is created by the spring element of the clamp
- → Secure and maintenance-free electrical connection According to EN 60947-7-1



□ TOP connection

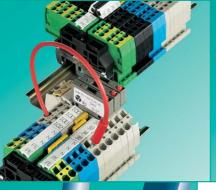
Wire entry and screwdriver access in the same plane

□ Built in test points

→ Clear and neat wiring

In small confined spaces

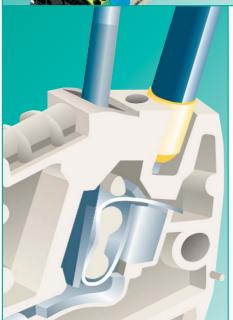
→ Test points for test plugs up to Ø 2.3 mm on all clamping points, without having to remove the connected wire





□ Economic system

- → Time saving due to pluggable cross connectors in potential commoning
- □ Fatigue-free handling



□ Connection capabilities

The clamping bodies of the WKF series can take in any copper conductor types without ferrules

Due to the construction of the funnelled wire entry, stripped wires can be connected without fraying

→ Both solid and stranded wires can be connected to WKF terminal blocks with and without ferrules

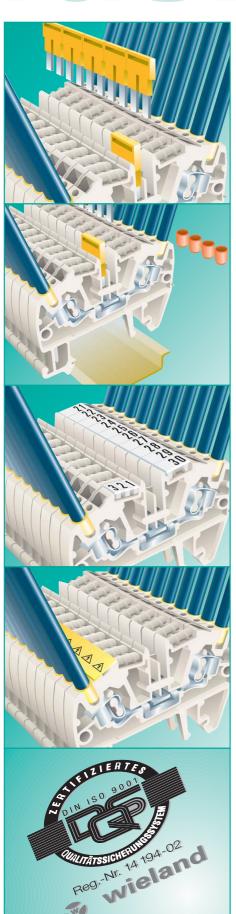
□ Tool

For optimal operation of our WKF terminal blocks we recommend the use of the following DIN 5264 screwdrivers with cylindric design and flat blades

→Rated	
cross	section

of the screwdrivers 14 AWG 1.5 mm² 0.6 x 3.5 mm 12 AWG 2.5 mm² 0.6 x 3.5 mm 0.6 x 3.5 mm 10 AWG 4 mm^2 6 mm² 8 AWG 0.8 x 4.0 mm 6 AWG 10 mm² 0.8 x 4.0 mm 4 AWG 16 mm² 1.0 x 5.5 mm

Blade dimensions



Cross connection (Jumper Bars)

- ☐ The insulated cross connectors IVB WKF... are completely touch safe
- No partiton plates required between jumpered terminal groups of different potential
- ☐ The cross connectors IVB WKF... bear the same rated current as the terminal
- ☐ For modular test plugs see page 177

Wire entry guides

- ☐ For the connection of wires with cross sections smaller than 18 AWG, we recommend the use of wire entry guides
- Wire entry guides prevent the wires from being inserted beyond the optimal clamping point and ensures a safe and secure connection

Marking systems

- Marking facility is down the center so that the marking tag is not covered by the conductor
- ☐ Single marking tag in 5, 6, or 8 mm spacing
- Marking strips (10 tags) to snap on to the terminal blocks
- ☐ Tear-off marking strips for 3-digit marking facilities per block
- Custom marking upon request

Cover with warning symbol

- Cover with warning symbol ADC to snap on to blocks which are still live after switched-off (VDE 0113)
- ☐ Cover can only be removed with a screwdriver

DQS certificates for all products

- Quality standard as per DIN ISO 9001 in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- ☐ Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, SwitzerlandAib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

Material

☐ Metal parts

Special alloys and surface treatments provide low contact resistance and high corrosion resistance

Clamping spring: stainless CrNi steel

Current Carrying bar: tin-plated copper

□ <u>Insulating material</u>

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housing: Polyamide 66/6

Tracking resistance: CTI 600

Flammability class:

Type WKF... UL 94 V-0 Type WKIF 16... UL 94 V-2

(see also section facts & DATA)

Our **wieplan** software helps to plan your DIN rail terminal block assemblies (see page 10/11).

Note

The information regarding crosssectional areas and connection types pertains to wires without ferrules. Ferrules are not neccessary for secure connection.

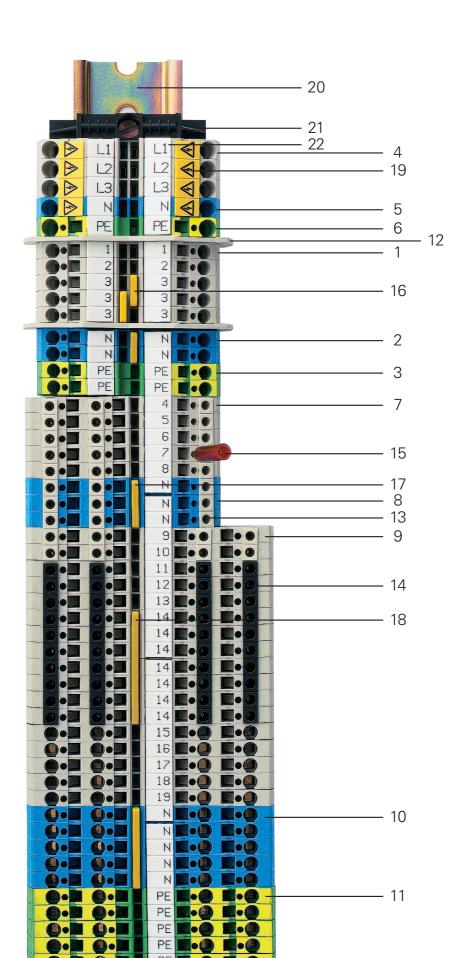
The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, **Wieland** offers a large selection of appopriate accessories.

If the ground blocks of the WKF series are not used in block assemblies but are mounted to the rail as single terminal blocks, end clamps have to be used.

A detailed description of technical data, the standards requirements, and the application conditions can be found in catalogue section *facts* & DATA.

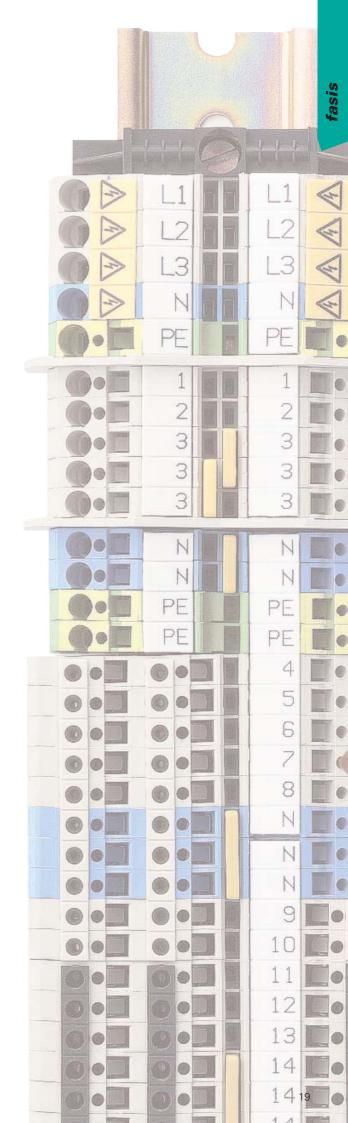
DIN Rail terminal blocks with spring clamp connection, type WKF

fasis



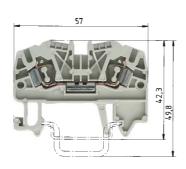
WKF sample rail

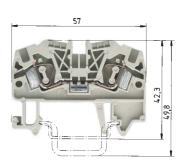
Description	T	Dant acceptan
·	••	Part. number
Feed-through block	WKF 2,5/35	56.703.0053.0
Feed-through block, blue	WKF 2,5/35 BLAU	56.703.0053.6
Ground block	WKF 2,5 SL/35	56.703.9053.0
Feed-through block	WKF 4/35	56.704.0053.0
Feed-through block, blue	WKF 4/35 BLAU	56.704.0053.6
Ground block	WKF 4 SL/35	56.704.9053.0
Duo feed-through block	WKF 2,5/D1/2/35	56.703.5053.0
Duo feed-through block, blue	WKF 2,5/D1/2/35 BLAU	56.703.5053.6
Duo feed-through block	WKF 2,5/D2/2/35	56.703.5153.0
Duo feed-through block, blue	WKF 2,5/D2/2/35 BLAU	56.703.5153.6
Duo ground block	WKF 2,5/D2/2/SL/35	56.703.9153.0
Partition plate	TWF 2,5-4	07.312.2253.0
Wire entry guide	LEL 2,5/2 GRAU	05.561.6553.0
Wire entry guide	LEL 2,5/3 SCHWARZ	05.561.6753.0
Test plug with insulated handle	WK 2,5/ST2/2,3	Z5.553.2921.0
Cross connector, insulated	IVB WKF 2,5-2	Z7.280.6227.0
Cross connector, insulated	IVB WKF 2,5-3	Z7.280.6327.0
Cross connector, insulated	IVB WKF 2,5-7	Z7.280.6727.0
Cover with warning symbol	ADF 4/4 GELB	04.343.6153.8
Mounting rail	35x27x7,5 gelocht	98.300.1000.0
End clamp	9808/2 S35	Z5.522.8553.0
Marking strips	9705 A/6/10 B	04.856.0453.0
	Ground block Feed-through block, blue Ground block Duo feed-through block, blue Duo feed-through block, blue Duo feed-through block, blue Duo feed-through block, blue Duo ground block Partition plate Wire entry guide Wire entry guide Test plug with insulated handle Cross connector, insulated Cross connector, insulated Cross connector, insulated Cross connector, insulated Cover with warning symbol Mounting rail End clamp	Feed-through block Feed-through block, blue Ground block WKF 2,5/35 BLAU Ground block WKF 4/35 Feed-through block, blue WKF 4/35 Feed-through block, blue WKF 4/35 BLAU Ground block WKF 4/35 BLAU Ground block WKF 4/35 BLAU WKF 4/35 BLAU WKF 4/35 BLAU WKF 2,5/D1/2/35 Duo feed-through block WKF 2,5/D1/2/35 Duo feed-through block WKF 2,5/D1/2/35 BLAU Duo feed-through block WKF 2,5/D2/2/35 Duo feed-through block WKF 2,5/D2/2/35 Duo feed-through block WKF 2,5/D2/2/35 Partition plate TWF 2,5-4 Wire entry guide LEL 2,5/2 GRAU Wire entry guide LEL 2,5/3 SCHWARZ Test plug with insulated handle WK 2,5/ST2/2,3 Cross connector, insulated IVB WKF 2,5-3 Cross connector, insulated IVB WKF 2,5-7 Cover with warning symbol Mounting rail 35x27x7,5 gelocht End clamp 9808/2 S35



Feed-through blocks with spring clamp connection, type *WKF*

fasis





.

EN 60 947-7-1/DIN VDE 0611 T1 UL ratings field/factory wiring

CSA ratings
Width Wire strip length
Approvals

fine stranded solid V A
0.13 - 2.5 mm² 0.13 - 4 mm² 800 V/8 kV/3 24
No. 22-12 AWG 600 V 20/30
No. 24-12 AWG 600 V 25

WKF 2.5/35

No. 24-12 AWG 600 V 25 5 mm 11 mm

(a) \triangle (b) Sev-Eex \triangle (o) (b) (n) (f) (e) S rina in LCIE RV \blacksquare 1 (s) \blacksquare 4 (s) **

WKF 4/35

fine stranded solid V A

0.13 - 4 mm² 0.13 - 6 mm² 800 V/8 kV/3 32

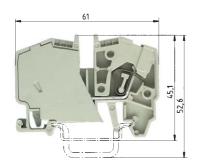
No. 22-10 AWG 600 V 20/30

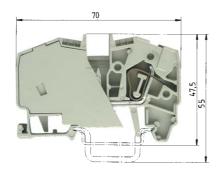
No. 22-10 AWG 600 V 35

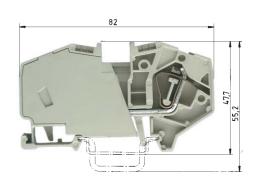
6 mm 11 mm

(B) A SEV-EEX OF (D) (N) (N) (F) (ETT) (S) RINA IN LCIE

		BV 91 * @ **		BV 911 * @ **	BA 27 * 6 **		
		Туре	Part no. Std. pack	Type	Part no. Std. pack		
Feed-through block	Color: gray	WKF 2,5/35	56.703.0053.0 100	WKF 4/35	56.704.0053.0 100		
Feed-through block	Color: blue	WKF 2,5/35 BLAU	56.703.0053.6 100	WKF 4/35 BLAU	56.704.0053.6 100		
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35x27x7,5 EN 60715	98.300.0000.0 1	35x27x7,5 EN 60715	98.300.0000.0 1		
Mounting rail 35, 15 mm high	L = 2 m	35x24x15 EN 60715	98.360.0000.0 1	35x24x15 EN 60715	98.360.0000.0 1		
2. End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0 100	9708/2 S35	Z5.522.8553.0 100		
End clamp TS 35, without screw	8 mm wide	WEF 1/35	Z5.523.9353.0 100	WEF 1/35	Z5.523.9353.0 100		
3. End plate	Color: gray	APF 2,5 – 4	07.312.2153.0 10	APF 2,5 – 4	07.312.2153.0 10		
	Color: blue	APF 2,5 – 4 BLAU	07.312.2153.6 10	APF 2,5 – 4 BLAU	07.312.2153.6 10		
4. Partition plate	Color: gray	TWF 2,5 – 4	07.312.2253.0 10	TWF 2,5 – 4	07.312.2253.0 10		
	Color: blue	TWF 2,5 – 4 BLAU	07.312.2253.6 10	TWF 2,5 – 4 BLAU	07.312.2253.6 10		
5. Cross connector	2pole	IVB WKF 2,5 – 2	Z7.280.6227.0 10	IVB WKF 4 – 2	Z7.261.1227.0 10		
insulated (jumper bar)	3pole	IVB WKF 2,5 – 3	Z7.280.6327.0 10	IVB WKF 4 – 3	Z7.261.1327.0 10		
	4pole	IVB WKF 2,5 – 4	Z7.280.6427.0 10	IVB WKF 4 – 4	Z7.261.1427.0 10		
	5pole	IVB WKF 2,5 – 5	Z7.280.6527.0 10	IVB WKF 4 – 5	Z7.261.1527.0 10		
	6pole	IVB WKF 2,5 – 6	Z7.280.6627.0 10	IVB WKF 4 – 6	Z7.261.1627.0 10		
	7pole	IVB WKF 2,5 – 7	Z7.280.6727.0 20	IVB WKF 4 – 7	Z7.261.1727.0 20		
	8pole	IVB WKF 2,5 – 8	Z7.280.6827.0 20	IVB WKF 4 – 8	Z7.261.1827.0 20		
	9pole	IVB WKF 2,5 – 9	Z7.280.6927.0 20	IVB WKF 4 – 9	Z7.261.1927.0 20		
	10pole	IVB WKF 2,5 - 10	Z7.280.7027.0 20	IVB WKF 4 – 10	Z7.261.2027.0 20		
6. Wire entry guide	0.13 - 0.2 mm ²	LEL 2,5/1 WEISS	05.561.6553.0 100	LEL 4/1 WEISS	05.561.8553.0 100		
	0.25 – 0.5 mm ²	LEL 2,5/2 GRAU	05.561.6653.0 100	LEL 4/2 GRAU	05.561.8653.0 100		
	0.75 – 1.0 mm ²	LEL 2,5/3 SCHWARZ	05.561.6753.0 100	LEL 4/3 SCHWARZ	05.561.8753.0 100		
7. Cover with warning symbol over 4 l	blocks	ADF 2,5/4 GELB	04.343.6053.8 10	ADF 4/4 GELB	04.343.6153.8 10		
8. Screwdriver, uninsulated (jumper b	oar)	DIN 5264 B 0,6 x 3,5	06.502.4000.0 5	DIN 5264 B 0,6 x 3,5	06.502.4000.0 5		
9. Test plug with spring connection		PSWKC/F	Z1.299.9753.0	PSWKC/F	Z1.299.9753.0		
End plate / spacer		ZP/APPS	07.312.6053.0	ZP/APPS	07.312.6053.0		
Blank module for staggered testing	9		01.299.9753.0		01.299.9753.0		
*) End plate required for each test plu	ug to achieve						
6 mm pitch		* CL I, ZN1, AExe I		* CL I, ZN1, AExe	II		
Marking accessories see page 48/49	and page 90/91	**CL I, ZN1, Exe II		**CL I, ZN1, Exe II			







WKF 6/35

fine stranded solid V A
0.5 - 6 mm² 0.5 - 6 mm² 800 V/8 kV/3 41
No. 20-8 AWG 600 V 40
No. 20-8 AWG 600 V 47
8 mm 12 mm

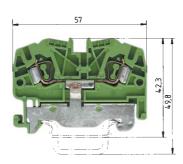
WKF 10/35

WKF 16/35

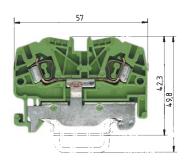
Туре	Part no. Std. pack	Туре	Part no. Std. pack	Туре	Part no. Std. pack
WKF 6/35	56.706.0053.0 100	WKF 10/35	56.710.0053.0 50	WKF 16/35	56.716.0053.0 50
WKF 6/35 BLAU	56.706.0053.6 100	WKF 10/35 BLAU	56.710.0053.6 50	WKF 16/35 BLAU	56.716.0053.6 50
35x27x7,5 EN 60715	98.300.0000.0 1	35x27x7,5 EN 60715	98.300.0000.0 1	35x27x7,5 EN 60715	98.300.0000.0 1
35x24x15 EN 60715	98.360.0000.0 1	35x24x15 EN 60715	98.360.0000.0 1	35x24x15 EN 60715	98.360.0000.0 1
9708/2 S35	Z5.522.8553.0 100	9708/2 S35	Z5.522.8553.0 100	9708/2 S35	Z5.522.8553.0 100
WEF 1/35	Z5.523.9353.0 100	WEF 1/35	Z5.523.9353.0 100	WEF 1/35	Z5.523.9353.0 100
IVB WKF 6 – 2	Z7.282.4227.0 10	IVB WKF 10 – 2	Z7.283.8227.0 10	IVB WKF 16 – 2	Z7.284.4227.0 10
ADF 6/4 GELB	04.343.6253.8 10	ADF 10/4 GELB	04.343.6453.8 10	ADF 16/4 GELB	04.343.6653.8 10
DIN 5264 B 0,8 x 4	06.502.4100.0 5	DIN 5264 B 0,8x4	06.502.4100.0 5	DIN 5264 B 1x5,5	06.502.4200.0 5
PSWKC/F	Z1.299.9753.0	PSWKC/F	Z1.299.9753.0	PSWKC/F	Z1.299.9753.0
ZP/APPS	07.312.6053.0	ZP/APPS	07.312.6053.0	ZP/APPS	07.312.6053.0
	01.299.9753.0		01.299.9753.0		01.299.9753.0
* CL I, ZN1, AExe I	I	* CL I, ZN1, AExe	II	* CL I, ZN1, AExe	II
**CL I, ZN1, Exe II		**CL I, ZN1, Exe II		**CL I, ZN1, Exe II	

Ground blocks with spring clamp connection, type *WKF*

fasis



Current carrying capabilities of the mounting rails see catalogue section *facts* & DATA



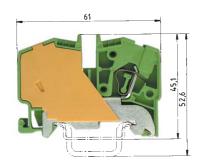
Current carrying capabilities of the mounting rails see catalogue section *facts* & DATA

WKF 2.5 SL/35

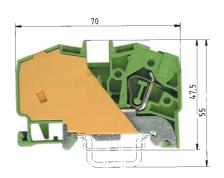
EN 60 947-7-2/DIN VDE 0611 T3
UL ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

WKF 4 SL/35

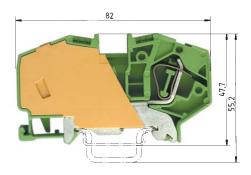
		TOTE BA 27 , @		TOIE BA MY . @	TOIE BA 27 , ® , ,		
		Туре	Part no. Std. pack	Туре	Part no. Std. pack		
Ground block	Color: yellow/green	WKF 2,5 SL/35	56.703.9053.0 100	WKF 4 SL/35	56.704.9053.0 100		
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35x27x7,5 EN 60715	98.300.0000.0 1	35x27x7,5 EN 60715	98.300.0000.0 1		
Mounting rail 35, 15 mm high	L = 2 m	35x24x15 EN 60715	98.360.0000.0 1	35x24x15 EN 60715	98.360.0000.0 1		
2. End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0 100	9708/2 S35	Z5.522.8553.0 100		
End clamp TS 35, without screw	8 mm wide	WEF 1/35	Z5.523.9353.0 100	WEF 1/35	Z5.523.9353.0 100		
3. End plate	Color: gray						
	Color: blue						
	Color: green	APF 2,5 – 4 GRÜN	07.312.2153.7 10	APF 2,5 – 4 GRÜN	07.312.2153.7 10		
4. Partition plate	Color: gray						
	Color: blue						
5. Cross connector	2pole						
insulated (jumper bar)	3pole						
	4pole						
	5pole						
	6pole						
	7pole						
	8pole						
	9pole						
	10pole						
6. Wire entry guide	0.13 - 0.2 mm ²	LEL 2,5/1 WEISS	05.561.6553.0 100	LEL 4/1 WEISS	05.561.8553.0 100		
, 0	0.25 – 0.5 mm ²	LEL 2,5/2 GRAU	05.561.6653.0 100	LEL 4/2 GRAU	05.561.8653.0 100		
	0.75 – 1.0 mm ²	LEL 2,5/3 SCHWARZ	05.561.6753.0 100	LEL 4/3 SCHWARZ	05.561.8753.0 100		
7. Cover with warning symbol over 4	ł blocks						
8. Screwdriver, uninsulated (jumper		DIN 5264 B 0,6x3,5	06.502.4000.0 5	DIN 5264 B 0,6 x 3,5	06.502.4000.0 5		
, , , , , , , , , , , , , , , , , , , ,							
		* CL I, ZN1, AExe I		* CL I, ZN1, AExe I			
		**CL I, ZN1, Exe II		**CL I, ZN1, Exe II			
Marking accessories see page 48/4	9 and page 90/91	Please see note on	nago 17I	Please see note on	nago 17I		
ivialking accessories see page 48/4	a and bage an/a l	riease see note on	page 1/!	riease see note on	page 17!		



Current carrying capabilities of the mounting rails see catalogue section *facts* & DATA



Current carrying capabilities of the mounting rails see catalogue section *facts* & DATA



Current carrying capabilities of the mounting rails see catalogue section *facts* & DATA

WKF 6 SL/35

fine stranded	solid	V	Α
$0.5 - 6 \text{ mm}^2$	$0.5 - 6 \text{ mm}^2$	800 V/8 kV/3	41
No. 20-8 AWG		600 V	
No. 20-8 AWG		600 V	
8 mm		12	mm
<u>∕\$</u> EV 7\ * ① *	*		

WKF 10 SL/35

fine stranded	solid	V	Α
2.5 – 10 mm ²	2.5 – 10 mm ²	800 V/8 kV/3	57
No. 14-6 AWG		600 V	
No. 14-6 AWG		600 V	
10 mm		13	mm
★ 71 * (1) *	*		

WKF 16 SL/35

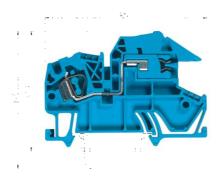
fine stranded	stranded	V	Α
4 – 16 mm ²	4 – 16 mm ²	800 V/8 kV/3	76
No. 12-4 AWG		600 V	
No. 12-4 AWG		600 V	
12 mm		15	mm
SEV 91 * 69 *	*		

Туре	Part no. Std. pack	Туре	Part no. Std. pack	Туре	Part no. Std. pack
WKF 6 SL/35	56.706.9053.0 100	WKF 10 SL/35	56.710.9053.0 50	WKF 16 SL/35	56.716.9053.0 50
35x27x7,5 EN 60715	98.300.0000.0 1	35x27x7,5 EN 60715	98.300.0000.0 1	35x27x7,5 EN 60715	98.300.0000.0 1
35x24x15 EN 60715	98.360.0000.0 1	35x24x15 EN 60715	98.360.0000.0 1	35x24x15 EN 60715	98.360.0000.0 1
9708/2 S35	Z5.522.8553.0 100	9708/2 S35	Z5.522.8553.0 100	9708/2 S35	Z5.522.8553.0 100
WEF 1/35	Z5.523.9353.0 100	WEF 1/35	Z5.523.9353.0 100	WEF 1/35	Z5.523.9353.0 100
DIN FOCA D O O. A	06.502.4100.0 5	DIN 5264 B 0,8 x 4	06.502.4100.0 5	DIN 5264 B 1x 5,5	06.502.4200.0 5
DIN 5264 B 0,8 x 4	06.502.4100.0 5	DIN 5264 B 0,8 X 4	06.502.4100.0 5	DIN 5264 B 1X5,5	06.502.4200.0 5
* CL I, ZN1, AExe I		* CL I, ZN1, AExe I		* CL I, ZN1, AExe I	
**CL I, ZN1, Exe II		**CL I, ZN1, Exe II		**CL I, ZN1, Exe II	
Please see note on	page 17!	Please see note on	page 17!	Please see note on	page 17!

Neutral disconnect blocks with spring clamp connection, type *WKF*

fasis

Combination with Feed-through block WKF 4/35 ground block WKF 4 SL/35



WKF 4 NT/35

EN 60 947-7-1; 1991/DIN VDE 0611 T1/08.92 UL ratings field/factory wiring CSA ratings

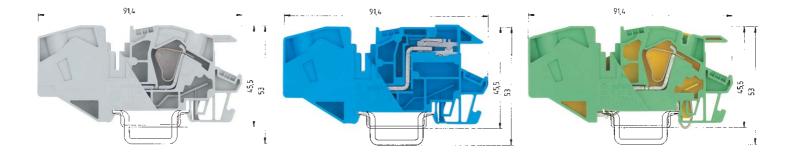
Width Wire strip length

Approvals

No. 22-10 AWG 600 V 25 6 mm 11 mm

		Туре	Part no. Sto	I. pack	
Feed-through block	Color: gray				
Feed-through block	Color: blue				
Neutralleiter-Trennklemme	Color: blue	WKF 4 NT/35	56.704.8153.0	100	
Ground block Color: g	reen/yellow				
Accessories					
1. Mounting rail 35, 7.5 mm high	L = 2 m	35x27x7,5 EN 60715	98.300.0000.0	1	
Mounting rail 35, 15 mm high	L = 2 m	35x24x15 EN 60715	98.360.0000.0	1	
2. End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	
End clamp TS 35, without screw	8 mm wide	WEF 1/35	Z5.523.9353.0	100	
3. End plate	Color: gray				
	Color: blue	APF 4 NT	07.312.6053.0	10	
4. Partition plate					
5. Cross connector	2pole	IVB WKF 4 – 2	Z7.261.1227.0	10	
insulated (jumper bar)	3pole	IVB WKF 4 – 3	Z7.261.1327.0	10	
	4pole	IVB WKF 4 – 4	Z7.261.1427.0	10	
	5pole	IVB WKF 4 – 5	Z7.261.1527.0	10	
	6pole	IVB WKF 4 – 6	Z7.261.1627.0	10	
	7pole	IVB WKF 4 – 7	Z7.261.1727.0	20	
	8pole	IVB WKF 4 – 8	Z7.261.1827.0	20	
	9pole	IVB WKF 4 – 9	Z7.261.1927.0	20	
	10pole	IVB WKF 4 – 10	Z7.261.2027.0	20	
6. Wire entry guide 0.13	3 – 0.2 mm ²	LEL 4/1 WEISS	05.561.8553.0	100	
0.29	5 – 0.5 mm²	LEL 4/2 GRAU	05.561.8653.0	100	
0.7	5 – 1.0 mm²	LEL 4/3 SCHWARZ	05.561.8753.0	100	
7. Cover with warning symbol over 4 blocks	s	ADF 4/4 GELB	04.343.6153.8	10	
8. Bus bar, E-Cu 10 x 3 mm, tin-plated	L = 1 m	9813 M SN	98.290.1000.0	1	
9. Connector clamp for bus bar 8	.5 mm wide	WAK 16/2 BLAU	30.494.3021.6	100	
1	17 mm wide	WAK 35/2	30.494.4121.0	50	
10. Bus bar support	8 mm wide	WKIF SH/E/35	Z1.108.8453.0	10	
11. Screwdriver uninsulated (jumper bar)		DIN 5264 B 0,6x3,5	06.502.4000.0	5	
Marking accessories see page 48/49 and page	age 90/91				

Supply blocks for junction box with spring clamp connection, type *WKIF*



WKIF 16/35

fine stranded stranded V A $4-16 \text{ mm}^2$ $4-16 \text{ mm}^2$ 800 V/8 kV/3 76

WKIF 16 NT/35

 WKIF 16 SL/35

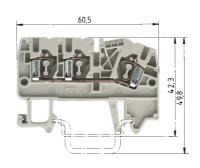
fine stranded stranded V A $4-16~\text{mm}^2$ $4-16~\text{mm}^2$ 800 V/8 kV/3 76

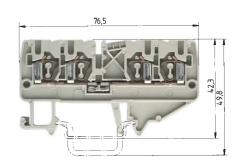
12 mm 16 mm 12 mm 16 mm 12 mm 16 mm

Туре	Part no. Std.	pack	Type	Part no. Std	I. pack	Type	Part no. Std	l. pack
WKIF 16/35	56.716.1153.0	50						
WKIF 16/35 BLAU	56.716.1153.6	50						
			WKIF 16 NT/35	56.716.8153.0	50			
						WKIF 16 SL/35	56.716.9153.0	50
35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
			WEF 1/35	Z5.523.9353.0	100			
IVB WKIF 16 – 2	Z7.284.6227.0	10	IVB WKIF 16 – 2	Z7.284.6227.0	10	IVB WKIF 16 – 2	Z7.284.6227.0	10
9813 M SN	98.290.1000.0	1	9813 M SN	98.290.1000.0	1	9813 M SN	98.290.1000.0	1
WAK 16/2 BLAU	30.494.3021.6	100	WAK 16/2 BLAU	30.494.3021.6	100	WAK 16/2 BLAU	30.494.3021.6	100
WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50
WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10
DIN 5264 B 1x5	06.502.4200.0	5	DIN 5264 B 1 x 5	06.502.4200.0	5	DIN 5264 B 1x5	06.502.4200.0	5

Duo-feed-through blocks with spring clamp connection, type WKF

fasis





WKF 2.5 D1/2/35

EN 60 947-7-1/DIN VDE 0611 T1
UL ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

fine stranded solid V A $0.13-2.5~\text{mm}^2~0.5-4~\text{mm}^2~800~\text{V/8}~\text{kV/3}~24$ No. 22-12 AWG 600 V 20/30 No. 24-12 AWG 600 V 25 5 mm 11 mm (a) \triangle SEV-EEX \triangle ©F (D) (N) (P) (ETF S) RINA LR LCIE BY \triangle **

WKF 2.5 D2/2/35

fine stranded solid V A

0.13 - 2.5 mm² 0.5 - 4 mm² 800 V/8 kV/3 24

No. 22-12 AWG 600 V 20/30

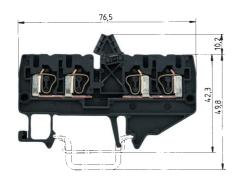
No. 24-12 AWG 600 V 25

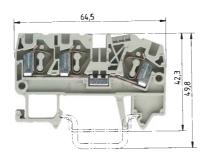
5 mm 11 mm

© 4 \$\frac{2}{3}\$ SEV-EEX \$\frac{2}{3}\$ @ (D) (N) (P) (E) \$\frac{2}{3}\$ SINA LR

LCIE BV \$\frac{2}{3}\$ * *

		LCIE BV 🕦 * 🀠 **			LCIE BV 711 * @ **		
		Type	Part no. Std	. pack	Туре	Part no. Sto	d. pack
Duo feed-through block 1/2	Color: gray	WKF 2,5/D1/2/35	56.703.5053.0	100			
	Color: blue	WKF 2,5/D1/2/35 BLAU	56.703.5053.6	100			
Duo feed-through block 2/2	Color: gray				WKF 2,5/D2/2/35	56.703.5153.0	100
	Color: blue				WKF 2,5/D2/2/35 BLAU	56.703.5153.6	100
Double feed-through block	Color: black						
Accessories							
1. Mounting rail 35, 7.5 high	L = 2 m	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 high	L = 2 m	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
2. End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp TS 35, without screw	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray	APF 2,5 /D1/2	07.312.2353.0	10	APF 2,5 /D2/2	07.312.2553.0	10
	Color: blue	APF 2,5/D1/2 BLAU	07.312.2353.6	10	APF 2,5/D2/2 BLAU	07.312.2553.6	10
4. Partition plate	Color: gray	TWF 2,5/D1/2	07.312.2453.0	10	TWF 2,5/D2/2	07.312.2653.0	10
	Color: blue	TWF 2,5/D1/2 BLAU	07.312.2453.6	10	TWF 2,5/D2/2 BLAU	07.312.2653.6	10
5. Cross connector	2pole	IVB WKF 2,5 – 2	Z7.280.6227.0	10	IVB WKF 2,5 – 2	Z7.280.6227.0	10
insulated (jumper bar)	3pole	IVB WKF 2,5 – 3	Z7.280.6327.0	10	IVB WKF 2,5 – 3	Z7.280.6327.0	10
	4pole	IVB WKF 2,5 – 4	Z7.280.6427.0	10	IVB WKF 2,5 – 4	Z7.280.6427.0	10
	5pole	IVB WKF 2,5 – 5	Z7.280.6527.0	10	IVB WKF 2,5 – 5	Z7.280.6527.0	10
	6pole	IVB WKF 2,5 – 6	Z7.280.6627.0	10	IVB WKF 2,5 – 6	Z7.280.6627.0	10
	7pole	IVB WKF 2,5 – 7	Z7.280.6727.0	20	IVB WKF 2,5 – 7	Z7.280.6727.0	20
	8pole	IVB WKF 2,5 – 8	Z7.280.6827.0	20	IVB WKF 2,5 – 8	Z7.280.6827.0	20
	9pole	IVB WKF 2,5 – 9	Z7.280.6927.0	20	IVB WKF 2,5 – 9	Z7.280.6927.0	20
	10pole	IVB WKF 2,5 – 10	Z7.280.7027.0	20	IVB WKF 2,5 – 10	Z7.280.7027.0	20
6. Wire entry guide	0.13 – 0.2 mm ²	LEL 2,5/1 WEISS	05.561.6553.0	100	LEL 2,5/1 WEISS	05.561.6553.0	100
	0.25 – 0.5 mm ²	LEL 2,5/2 GRAU	05.561.6653.0	100	LEL 2,5/2 GRAU	05.561.6653.0	100
	0.75 – 1.0 mm ²	LEL 2,5/3 SCHWARZ	05.561.6753.0	100	LEL 2,5/3 SCHWARZ	05.561.6753.0	100
7. Cover with warning symbol over 4	blocks	ADF 2,5/4 GELB	04.343.6053.8	10	ADF 2,5/4 GELB	04.343.6053.8	10
8. Screwdriver, uninsulated (jumper	bar)	DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
9. Test plug with spring connection		PSWKC/F	Z1.299.9753.0		PSWKC/F	Z1.299.9753.0	
End plate / spacer		ZP/APPS	07.312.6053.0		ZP/APPS	07.312.6053.0	
Blank module for staggered testing	ng		01.299.9753.0			01.299.9753.0	
Marking accessories see page 48/49	and page 90/91	* CL I, ZN1, AExe II	/ **CL I, ZN1, E	xe II	* CL I, ZN1, AExe II	/ **CL I, ZN1, E	Exe II





WKF 2.5 D/D/35

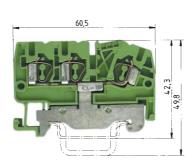
WKF 4 D1/2/35

fine stranded	solid	V	Α
0.13 – 4 mm ²	$0.5 - 6 \text{ mm}^2$	800 V/8 kV/3	32
No. 22-10 AWC	3	600 V	30
No. 22-10 AWC	3	600 V	35
6 mm		11	mm
SEV OVE NV	RL 1) @ 2)		

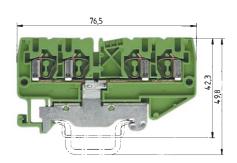
Гуре	Part no. Std	. pack	Туре	Part no. Sto	I. pack
			WKF 4 D1/2/35	56.704.5053.0	100
			WKF 4 D1/2/35 BLAU	56.704.5053.6	100
NKF 2,5/D/D/35	56.703.5253.0	100			
DE. 077 F EN 0074F	00 200 0000 0	1	05.,07.,7 FN 00745	00 200 0000 0	1
35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
35x24x15 EN 60715	98.360.0000.0	100	35x24x15 EN 60715	98.360.0000.0	1
9708/2 S35 WEF 1/35	Z5.522.8553.0 Z5.523.9353.0	100	9708/2 S35 WEF 1/35	Z5.522.8553.0 Z5.523.9353.0	
APF 2,5 /D2/2		100	APF 4/D1/2	07.312.4853.0	100
4FF Z,3 /UZ/Z	07.312.2553.0	10		07.312.4853.0	10
TWF 2,5/D2/2	07.312.2653.0	10	APF 4/D1/2 BLAU TWF 4/D1/2	07.312.4853.6	10
1 V V 1 Z, J/ D Z / Z	07.312.2003.0	10	TWF 4/D1/2 BLAU	07.312.4953.6	10
			IVB WKF 4 – 2	Z7.261.1227.0	10
			IVB WKF 4 – 3	Z7.261.1327.0	10
			IVB WKF 4 – 4	Z7.261.1427.0	10
			IVB WKF 4 – 5	Z7.261.1527.0	10
			IVB WKF 4 – 6	Z7.261.1627.0	10
			IVB WKF 4 – 7	Z7.261.1727.0	20
			IVB WKF 4 – 8	Z7.261.1827.0	20
			IVB WKF 4 – 9	Z7.261.1927.0	20
			IVB WKF 4 – 10	Z7.261.2027.0	20
LEL 2,5/1 WEISS	05.561.6553.0	100	LEL 4/1 WEISS	05.561.8553.0	100
LEL 2,5/2 GRAU	05.561.6653.0	100	LEL 4/2 GRAU	05.561.8653.0	100
LEL 2,5/3 SCHWARZ	05.561.6753.0	100	LEL 4/3 SCHWARZ	05.561.8753.0	100
ADF 2,5/4 GELB	04.343.6053.8	10	ADF 4/4 GELB	04.343.6153.8	10
DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
PSWKC/F	Z1.299.9753.0		PSWKC/F	Z1.299.9753.0	
ZP/APPS	07.312.6053.0		ZP/APPS	07.312.6053.0	
	01.299.9753.0			01.299.9753.0	
1) CL I, ZN1, Exe II,	²⁾ CL I, ZN1, AExe	e II	1) CL I, ZN1, Exe II,	²⁾ CL I, ZN1, AExe	e II

Duo ground blocks with spring clamp connection, type *WKF*

fasis



Current carrying capabilities of the mounting rails see catalogue section facts & DATA



Current carrying capabilities of the mounting rails see catalogue

WKF 2.5 D1/2/SL/35

EN 60 947-7-1/DIN VDE 0611 T1
UL ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

fine stranded solid V A

0.13 - 2.5 mm² 0.5 - 4 mm² 800 V/8 kV/3 24

No. 22-12 AWG 600 V

No. 24-12 AWG 600 V

5 mm 11 mm

\(\hat{1} \hat{2} \hat{3} \hat{5} \hat{5} \hat{1} \hat{1}

WKF 2.5 D2/2/SL/35

fine stranded solid V A

0.13 – 2.5 mm² 0.5 – 4 mm² 800 V/8 kV/3 24

No. 22-12 AVVG 600 V

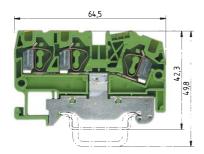
No. 24-12 AVVG 600 V

5 mm 11 mm

© 4 (\$) SEV-EEX 6 © (D) (N) (P) (E) S RINA LR

LCIE BV \$\mathbf{N}\$ * \$\mathbf{N}\$ **

		TCIE BA 27 , @ , ,		TOIE BY MY , @ , ,	
		Туре	Part no. Std. pack	Туре	Part no. Std. pack
Duo feed-through block 1/2	Color: yellow/green	WKF 2,5/D1/2/SL/35	56.703.9353.0 100		
Duo ground block 2/2	Color: yellow/green			WKF 2,5/D2/2/SL/35	56.703.9153.0 100
Accessories					
1. Mounting rail 35, 7.5 high	L = 2 m	35x27x7,5 EN 60715	98.300.0000.0 1	35x27x7,5 EN 60715	98.300.0000.0 1
Mounting rail 35, 15 high	L = 2 m	35x24x15 EN 60715	98.360.0000.0 1	35x24x15 EN 60715	98.360.0000.0 1
2. End clampTS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0 100	9708/2 S35	Z5.522.8553.0 100
End clamp TS 35, without screv	v 8 mm wide	WEF 1/35	Z5.523.9353.0 100	WEF 1/35	Z5.523.9353.0 100
3. End plate	Color: grau				
	Color: blue				
	Color: green	APF 2,5 D1/2 GRÜN	07.312.2353.7 10	APF 2,5 D2/2 GRÜN	07.312.2553.7 10
4. Partition plate	Color: gray				
	Color: blue				
5. Cross connector	2pole				
Insulated (jumper bar)	3pole				
	4pole				
	5pole				
	6pole				
	7pole				
	8pole				
	9pole				
	10pole				
6. Wire entry guide	0.13 – 0.2 mm ²	LEL 2,5/1 WEISS	05.561.6553.0 100	LEL 2,5/1 WEISS	05.561.6553.0 100
or range one, garag	0.25 – 0.5 mm ²	LEL 2,5/2 GRAU	05.561.6653.0 100	LEL 2,5/2 GRAU	05.561.6653.0 100
	0.75 – 1.0 mm ²	LEL 2,5/3 SCHWARZ	05.561.6753.0 100	LEL 2,5/3 SCHWARZ	05.561.6753.0 100
7. Cover with warning symbol over		ADF 2,5/4 GELB	04.343.6053.8 10	ADF 2,5/4 GELB	04.343.6053.8 10
Screwdriver, uninsulated (jumper)		DIN 5264 B 0,6x3,5	06.502.4000.0 5	DIN 5264 B 0,6 x 3,5	06.502.4000.0 5
o. Screwariver, driirisdiated (juripe	51 Dai/	DIN 3204 D 0,0X3,3	00.302.4000.0 3	DIN 3204 D 0,0 X3,3	00.302.4000.0
		* CL 7N1 AFva	I / **CL I, ZN1, Exe II	* CL 7N1 AFva	I / **CL I, ZN1, Exe II
Marking accessories see page 48/4	10 and page 00/01	Please see note on		Please see note on	
iviai kii ig accessories see page 40/4	o and page 30/31	1 10036 366 11016 011	page 17:	r lease see Hote off	page 17!



Current carrying capabilities of the mounting rails see catalogue section *facts* & DATA

WKF 4 D1/2/SL/35

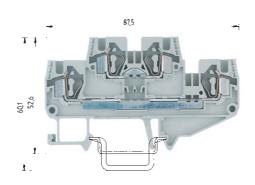
fine stranded	solid	V	Α
0.13 – 4 mm ²	$0.5 - 6 \text{ mm}^2$	800 V/8 kV/3	32
No. 22-10 AW	G	600 V	
No. 22-10 AW	G	600 V	
6 mm		11	mm
(1)	5. 1) 6 2)		

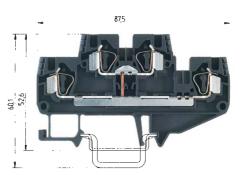
(\$) <u>sev</u> (ove (NV) **91** 1) (§ 2)

Type	Part no.	Std.	pack	
WKF 4 D1/2/SL/35	56.704.93	353.0	100	
25, 27, 75 FN C0715	00 200 0	200.0	1	_
35x27x7,5 EN 60715 35x24x15 EN 60715			1	_
9708/2 S35	98.360.00 Z5.522.89			-
WEF 1/35	Z5.522.00 Z5.523.90			_
VVEF 1/33	20.023.90	555.0	100	_
APF 4 D1/2 GRÜN	07.312.48	353.7	10	_
				_
				_
				_
				_
				-
				_
LEL 4/1 WEISS	05.561.8	553.0	100	_
LEL 4/2 GRAU	05.561.86			-
LEL 4/3 SCHWARZ	05.561.87			-
ADF 2,5/4 GELB	04.343.60		100	-
DIN 5264 B 0,6 x 3,5	06.502.40		5	_
				_
				_
1) CL I, ZN1, Exe II,		AExe	П	
Please see note on	page 17!			

Double tier terminals with spring clamp connection, type WKF

fasis





WKF 4 E/35

fine stranded solid V A 0.13 - 4 mm² 0.13 - 6 mm² 800 V/8 kV/3 32

WKF 4 E/VB/35

fine stranded solid V A 0.13 - 4 mm² 0,13 - 6 mm² 800 V/8 kV/3 32

11 mm

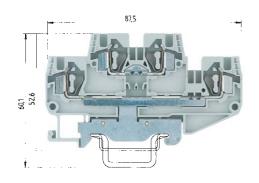
EN 60 947-7-1
UL ratings field/factory wiring
CSA ratings
Width Wire strip length

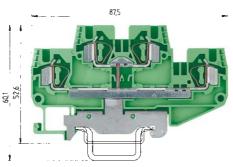
Approvals

ip length 6 mm 11 mm **§ 31** pending

	D .	0.1	T	Б.
N pending			pending	
11111		11 (11(11)	0 111111 0	

Color: gray Color: black blor: green/yellow Color: red Color: orange d L = 2 m d L = 2 m 8 mm wide	Type WKF 4 E/35 35x27x7,5 EN 60715	Part no. Std. pack 56.704.7053.0 100		Type WKF 4 E/VB/35	Part no. Std. pack	
Color: black blor: green/yellow Color: red Color: orange d L = 2 m	35x27x7,5 EN 60715			WKF 4 E/VB/35	56.704.6953.1 100	0
plor: green/yellow Color: red Color: orange d $L = 2 \text{ m}$ $L = 2 \text{ m}$	· · · · · · · · · · · · · · · · · · ·	98 300 0000 0 1		WKF 4 E/VB/35	56.704.6953.1 100	0
Color: red Color: orange d L = 2 m d L = 2 m	· · · · · · · · · · · · · · · · · · ·	98 300 0000 0 1				
Color: orange d	· · · · · · · · · · · · · · · · · · ·	98 300 0000 0 1				
d L = 2 m	· · · · · · · · · · · · · · · · · · ·	98 300 0000 0 1				
d L = 2 m	· · · · · · · · · · · · · · · · · · ·	Q8 300 0000 0 1				
d L = 2 m	· · · · · · · · · · · · · · · · · · ·	98 300 0000 0 1				
d L = 2 m	· · · · · · · · · · · · · · · · · · ·			35x27x7,5 EN 60715	98.300.0000.0	1
	35x24x15 EN 60715	98.360.0000.0 1		35x24x15 EN 60715		1
	9708/2 S35	Z5.522.8553.0 100		9708/2 S35	Z5.522.8553.0 100	
8 mm wide	WEF 1/35	Z5.522.8353.0 100 Z5.523.9353.0 100		WEF 1/35	Z5.522.8353.0 100 Z5.523.9353.0 100	
	,		10	,		
		ATT 7 L07.012.0700.0	10	ALL TE	07.012.0700.0 10	
		TWE 4 F 07 312 5952 0	10	TWE 4 E	07 312 5853 0 10	n
	<u> </u>	1VVI 4 LU7.3 12.0003.U	10	1 V V 1 4 L	07.312.0003.0 10	J
		77 261 1227 0 10		IVR W/KF 4 = 2	77 261 1227 0 10	
· ·				-		
· '						
· ·						
· ·						
· ·						-
· '				140 44 10	27.201.2027.0 20	J
				LEL 4/1 WEISS	05 561 8553 0 100	0
	· · · · · · · · · · · · · · · · · · ·					
	· · · · · · · · · · · · · · · · · · ·					
iii iii idio						5
	DITY 3204 D 0,033,3 IVI	00.002.0000.0 10		DIT 3204 D 0,0X3,3 IVI	00.302.3000.0	
	1.5 mm wide 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole 9 pole 10 pole 10 pole 0.13 - 0.2 mm² 0.25 - 0.5 mm² minals	1.5 mm wide 1.5 mm wide Color: green 1.5 mm wide Color: green 1.5 mm wide Color: green 1.5 mm wide Color: gray 1.5 mm wide Color: blue 2pole IVB WKF 4 – 2 3pole IVB WKF 4 – 3 4pole IVB WKF 4 – 4 5pole IVB WKF 4 – 5 6pole IVB WKF 4 – 6 7pole IVB WKF 4 – 7 8pole IVB WKF 4 – 7 8pole IVB WKF 4 – 9 IVB WKF 4 – 10 IPOLE IPOL	1.5 mm wide Color: blue 1.5 mm wide Color: green 1.5 mm wide Color: green 1.5 mm wide Color: gray TWF 4 E07.312.5853.0 1.5 mm wide Color: blue 2pole IVB WKF 4 - 2 Z7.261.1227.0 10 3pole IVB WKF 4 - 3 Z7.261.1327.0 10 4pole IVB WKF 4 - 4 Z7.261.1427.0 10 5pole IVB WKF 4 - 5 Z7.261.1527.0 10 6pole IVB WKF 4 - 6 Z7.261.1527.0 10 7pole IVB WKF 4 - 7 Z7.261.1727.0 20 8pole IVB WKF 4 - 8 Z7.261.1727.0 20 1VB WKF 4 - 9 Z7.261.1927.0 20 10pole IVB WKF 4 - 9 Z7.261.1927.0 20 10pole IVB WKF 4 - 10 Z7.261.2027.0 20 1pole IVB WKF 4 - 10 Z7.261.2027.0 20 1pole IVB WKF 4 - 10 Z7.261.1127.0 0.13 - 0.2 mm² LEL 4/1 WEISS 05.561.8553.0 100 0.25 - 0.5 mm² LEL 4/2 GRAU 05.561.8653.0 100 0.75 - 1.0 mm² LEL 4/3 SCHWARZ 05.561.8753.0 100 mminals ADF 4/4 GELB 04.343.6153.8 10 DIN 5264 B 0,6x3,5 M 06.502.5000.0 10	1.5 mm wide	1.5 mm wide	1.5 mm wide Color: blue 1.5 mm wide Color: green 1.5 mm wide Color: gray TWF 4 E07.312.5853.0 10 TWF 4 E 07.312.5853.0 10 1.5 mm wide Color: blue 2pole IVB WKF 4 - 2 Z7.261.1227.0 10 IVB WKF 4 - 2 Z7.261.1227.0 10 3pole IVB WKF 4 - 3 Z7.261.1327.0 10 IVB WKF 4 - 3 Z7.261.1327.0 10 4pole IVB WKF 4 - 4 Z7.261.1427.0 10 IVB WKF 4 - 4 Z7.261.1427.0 10 5pole IVB WKF 4 - 5 Z7.261.1527.0 10 IVB WKF 4 - 5 Z7.261.1527.0 10 6pole IVB WKF 4 - 6 Z7.261.1627.0 10 IVB WKF 4 - 6 Z7.261.1627.0 10 7pole IVB WKF 4 - 7 Z7.261.1727.0 20 IVB WKF 4 - 7 Z7.261.1727.0 20 8pole IVB WKF 4 - 8 Z7.261.1827.0 20 IVB WKF 4 - 8 Z7.261.1827.0 20 9pole IVB WKF 4 - 9 Z7.261.1927.0 20 IVB WKF 4 - 9 Z7.261.1927.0 20 10pole IVB WKF 4 - 10 Z7.261.2027.0 20 IVB WKF 4 - 9 Z7.261.1927.0 20 11pole IVB WKF 4 - 10 Z7.261.2027.0 20 IVB WKF 4 - 10 Z7.261.2027.0 20 1pole IVB WKF 4 - 10 Z7.261.1127.0 0.13 - 0.2 mm² LEL 4/1 WEISS 05.561.8553.0 100 LEL 4/1 WEISS 05.561.8553.0 100 0.25 - 0.5 mm² LEL 4/2 GRAU 05.561.8653.0 100 LEL 4/2 GRAU 05.561.8653.0 100 0.75 - 1.0 mm² LEL 4/3 SCHWARZ 05.561.8753.0 100 LEL 4/3 SCHWARZ 05.561.8753.0 100 0.75 - 1.0 mm² LEL 4/3 SCHWARZ 05.561.8753.0 100 LEL 4/3 SCHWARZ 05.561.8753.0 100 0.75 - 1.0 mm² LEL 4/3 SCHWARZ 05.561.8753.0 100 LEL 4/3 SCHWARZ 05.561.8753.0 100 0.75 - 1.0 mm² LEL 4/3 SCHWARZ 05.561.8753.0 100 LEL 4/3 SCHWARZ 05.561.8753.0 100 0.75 - 1.0 mm² LEL 4/3 SCHWARZ 05.561.8753.0 100 LEL 4/3 SCHWARZ 05.561.8753.0 100 0.75 - 1.0 mm² LEL 4/3 SCHWARZ 05.561.8753.0 100 LEL 4/3 SCHWARZ 05.561.8753.0 100 0.75 - 1.0 mm² LEL 4/3 SCHWARZ 05.561.8753.0 100 LEL 4/3 SCHWARZ 05.561.8753.0 100 0.75 - 1.0 mm² LEL 4/3 SCHWARZ 05.561.8753.0 100 LEL 4/3 SCHWARZ 05.561.8753.0 100 0.75 - 1.0 mm² LEL 4/3 SCHWARZ 05.561.8753.0 100 LEL 4/3 SCHWARZ 05.561.8753.0 100 0.75 - 1.0 mm² LEL 4/3 SCHWARZ 05.561.8753.0 100 LEL 4/3 SCHWARZ 05.561.8753.0 100 0.75 - 1.0 mm² LEL 4/3 SCHWARZ 05.561.8753.0 100 LEL 4/3 SCHWARZ 05.561.8753.0 100 0.75 - 1.0 mm² LEL 4/3 SCHWARZ 05.561.8753.0 100 LEL 4/3 SCHWARZ 05.561.8753.0 100 LEL 4/3 SCHWARZ 05.561





WKF 4 E /D/SL/35

WKF 4 E SL/35

fine stranded solid V A $0.13 - 4 \text{ mm}^2$ $0.13 - 6 \text{ mm}^2$ 800 V/8 kV/3 32

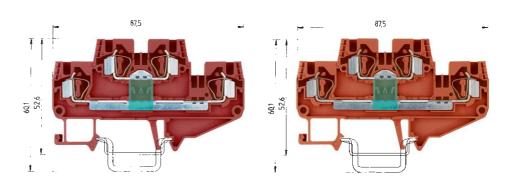
fine stranded solid V A
0.13 - 4 mm² 0.13 - 6 mm² 800 V/8 kV/3 32

6 mm 11 mm 6 mm 11 mm 6 mm 11 mm 6 mm 11 mm

91 pending	D		⊕	D :	
ype	Part no. Std	. pack	Type	Part no. Std	. pack
VKF 4 E /D/SL/35	56.704.9953.0	100	WKF 4 E SL/35	56.704.9253.0	100
35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
APF 4 E	07.312.5753.0	10			
			APF 4 E	07.312.5753.7	10
TWF 4 E	07.312.5853.0	10			
IVB WKF 4 – 2	Z7.261.1227.0	10			
IVB WKF 4 – 3	Z7.261.1327.0	10			
IVB WKF 4 – 4	Z7.261.1427.0	10			
IVB WKF 4 – 5	Z7.261.1527.0	10			
IVB WKF 4 – 6	Z7.261.1627.0	10			
IVB WKF 4 – 7	Z7.261.1727.0	20			
IVB WKF 4 – 8	Z7.261.1827.0	20			
IVB WKF 4 – 9	Z7.261.1927.0	20			
IVB WKF 4 – 10	Z7.261.2027.0	20			
LEL 4/1 WEISS	05.561.8553.0	100	LEL 4/1 WEISS	05.561.8553.0	100
LEL 4/2 GRAU	05.561.8653.0	100	LEL 4/2 GRAU	05.561.8653.0	100
LEL 4/3 SCHWARZ	05.561.8753.0	100	LEL 4/3 SCHWARZ	05.561.8753.0	100
ADF 4/4 GELB	04.343.6153.8	10	ADF 4/4 GELB	04.343.6153.8	10
DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,6x3,5	06.502.4000.0	5
DIN 5264 B 0,6x3,5 M	06.502.5000.0	10	DIN 5264 B 0,6x3,5 M	06.502.5000.0	10

Double tier blocks with spring clamp connection, type WKF

fasis



WKF 4 E /35...

fine stranded solid V A 0.13 - 4 mm² 0.13 - 6 mm²

EN 60 947-7-1 UL ratings CSA ratings

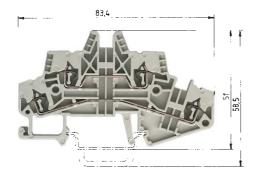
field/factory wiring

Width Wire strip length

11 mm

Function Diagram

pprovals		, ,	pending				Function Diag	gram
			Туре	Part no. St	d. pack	56.704.7553.9	○	
Double tier block		Color: gray				56.704.7553.5		
Double tier-Branch ci	ircuit	Color: black				00.701.7000.0	0 0	
Double tier-Ground	Co	lor: green/yellow						
Function Terminal		Color: red	WKF 4 E /35	56.704.XX53.5	5	56.704.7153.5	·	
Function Terminal		Color: orange	WKF 4 E /35	56.704.XX53.9	9	56.704.7153.9	0	
Accessories						-		
1. Mounting rail 35,	75 mm high	L = 2 m	35x27x7,5 EN 60715	98.300.0000.0) 1	-		Ì
Mounting rail 35,		L = 2 m	35x24x15 EN 60715	98.360.0000.0	-	56.704.8053.9		I = 1 A
2. End clamp TS 35, v		8 mm wide	9708/2 S35	Z5.522.8553.0	-			U = 1000 V
End clamp TS 35, v		8 mm wide	WEF 1/35	Z5.523.9353.0		-		•
3. End plate	1.5 mm wide	Color: gray	APF 4 E	07.312.5753.0		-		l
o. Ena plato	1.5 mm wide	Color: blue	7.11 1 2	07.012.0700.0		56.704.8253.5		I = 1 A
	1.5 mm wide	Color: green				00.701.0200.0		U = 1000 V
4. Partition plate	1.5 mm wide	Color: gray	TWF 4 E	07.312.5853.0) 10	-		•
	1.5 mm wide	Color: blue				1		l
5. Cross connector		2pole	IVB WKF 4 – 2	Z7.261.1227.0) 10	56.704.7953.5	○ • ○ ○	I = 1 A
Insulated (jumper b	oar)	3pole	IVB WKF 4 – 3	Z7.261.1327.0			o * ⋈ • •	U = 1000 V
, , , , , , , , , , , , , , , , , , ,		4pole	IVB WKF 4 – 4	Z7.261.1427.0) 10	-		•
		5pole	IVB WKF 4 – 5	Z7.261.1527.0) 10			l
		6pole	IVB WKF 4 – 6	Z7.261.1627.0) 10	56.704.8353.5		I = 1 A
		7pole	IVB WKF 4 – 7	Z7.261.1727.0) 20			U = 1000 V
		8pole	IVB WKF 4 – 8	Z7.261.1827.0	20			•
		9pole	IVB WKF 4 – 9	Z7.261.1927.0	20	1		l R = 4.7 KΩ
		10pole	IVB WKF 4 – 10	Z7.261.2027.0	20	56.704.7453.9	<u>\$</u> 3°	P = 0.5 W
6. Vertical Jumper		1pole				LED red	○	U = 24 V DC
7. Wire entry guide		0.13 – 0.2 mm ²	LEL 4/1 WEISS	05.561.8553.0	100	1		•
		0.25 – 0.5 mm ²	LEL 4/2 GRAU	05.561.8653.0	100	1		l R = 4.7 KΩ
		0.75 – 1.0 mm ²	LEL 4/3 SCHWARZ	05.561.8753.0	100	56.704.7253.5	4 ¥	P = 0.5 W
8. Cover with warning	g symbol over 4 b	locks	ADF 4/4 GELB	04.343.6153.8	3 10	LED red	0 0	U = 24 V DC
9. Screwdriver, unins	ulated (jumper ba	ar)	DIN 5264 B 0,6x3,5	06.502.4000.0) 5	1		•
Screwdriver, unins	ulated (jumper ba	ar), MINI	DIN 5264 B 0,6x3,5 M	06.502.5000.0	10		0.00	R = 680 KΩ
						56.704.7353.5		P = 0.25 W
Marking accessories s	ee page 48/49 ar	nd page 90/91					→ → →	U = 100-500



WKF 1.5 E/35

fine stranded	solid	V	Α
0.13 – 1.5 mm ²	0.13 – 2.5 mm	² 400 V/6 kV/3	17.5
30-14 AWG		300 V	15 A
CSA No. 28-14	AWG	600 V	20 A
5 mm		8	3 mm

71 * **(1)** * **1/?**

Туре	Part no. Std.	pack	
WKF 1,5 E/35	56.702.7053.0	100	
35x27x7,5 EN 60715	98.300.0000.0	1	
35x24x15 EN 60715	98.360.0000.0	1	
9708/2 S35	Z5.522.8553.0	100	
WEF 1/35	Z5.523.9353.0	100	
APF 1,5 E	07.312.3553.0	10	
TWF 1,5 E	07.312.3653.0	10	
IVB WKF 2,5 – 2	Z7.280.6227.0	10	
IVB WKF 2,5 – 3	Z7.280.6327.0	10	
IVB WKF 2,5 - 4	Z7.280.6427.0	10	
IVB WKF 2,5 – 5	Z7.280.6527.0	10	
IVB WKF 2,5 - 6	Z7.280.6627.0	10	
IVB WKF 2,5 – 7	Z7.280.6727.0	20	
IVB WKF 2,5 – 8	Z7.280.6827.0	20	
IVB WKF 2,5 – 9	Z7.280.6927.0	20	
IVB WKF 2,5 – 10	Z7.280.7027.0	20	
IVB WKFC-V*)	Z7.261.1127.0		
LEL 1,5/1 WEISS	05.562.2453.0	100	
LEL 1,5/2 GRAU	05.562.2553.0	100	
LEL 1,5/3 SCHWARZ	05.562.2653.0	100	
ADF 1,5/4 GELB	04.343.8353.8	10	
DIN 5264 B 0,6x3,5	06.502.4000.0	5	
DIN 5264 B 0,6x3,5 M	06.502.5000.0	10	
* CL I, ZN1, AExe II			
**CL I, ZN1, Exe II			

DIN rail terminal blocks with spring clamp connection and pluggable connections

fasis



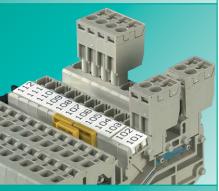
System advantages

☐ Spring clamp connection, screwless technology

Separation of electrical and mechanical functions

Application advantages

- → Dynamic connections Protection of the connection against "cold flow" and creep
- → Pre-programmed clamping force The clamping force required to connect the wire, is created by the spring elements of the clamp
- → Secure and maintenance-free electrical connection According to EN 60947-7-1



□ TOP connection

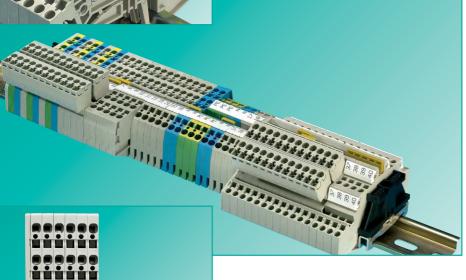
Wire entry and screwdriver access in same plane

- ☐ Built in Test Points
- ☐ Preassembled modules

- → **Clear wiring**In small confined spaces
- → Test points for test plugs up to Ø 2.3 mm on all clamping points, without having to remove the connected wire
- → **Reduced downtime** due to quick and easy component replacement
- → Wiring errors reduced to a minimum
- → Cost reduction in assembly on site



- ☐ Pluggable wiring inside the control cabinet
- → Time saving due to pluggable accessories
- → Flexible potential commoning



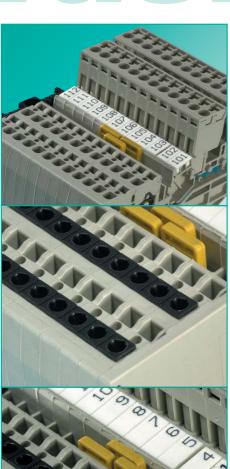
- Two versions of DIN rail terminal blocks:
- → WKF 2.5/D2/8113... with 2 inputs and 2 outputs on one potential, only 5 mm wide
- → WKF 2.5 E/8113/35 with 2 input and 2 output with different potentials in double-tier design



■ Safety through coding

- → Dead front safety as per IEC 60529 due to shrouded pins on the plug-in side
- → Coding pieces prevents incorrect mating of the pluggable connector

1999999









Cross connection (Jumper Bars)

- ☐ The insulated cross connectors IVB WKF... are completely touch safe
- No partition plates required between jumpered terminal groups of different potential
- Cross connector IVB WKF 2.5... can bear the same ratied current as the terminal (pg. 17)

Wire entry guides

- ☐ For the connection of wires with cross sections smaller than 18 AWG, we recommend the use of wire entry guides
- Wire entry guides prevent the wires from being inserted beyond the optimal clamping point and ensurs a safe and secure connection

Material

Metal parts

Special alloys and surface treatments provide low contact resistance and high corrosion resistance

Clamping spring: stainless CrNi steel Current Carrying bar: tin-plated cooper

□ <u>Insulating material</u>

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housing:Polyamide 66/6

Tracking resistance: CTI 600 Flammability class: UL 94 V-0

(see also section facts & DATA)

Marking systems

- Marking facility is down the center so that the marking tag is not covered by the conductor
- ☐ Single marking tag 5, 6, or 8 mm spacing
- ☐ Marking strips (10 tags) to snap on to the terminal blocks
- ☐ Tear-off marking strips for 3-digit marking facilities per block
- Custom marking upon request

Cover with warning symbol

- Cover with warning symbol ADC to snap on to blocks which are still live after switched-off (VDE 0113)
- ☐ Cover can only be removed with a screwdriver

Our **wieplan** software helps to plan your DIN rail terminal block assemblies (see page 10/11).

Note

The information regarding crosssectional areas and connection types pertains to wires without ferrules. Ferrules are not neccessary for secure connection.

The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, **Wieland** offers a large selection of appopriate accessories.

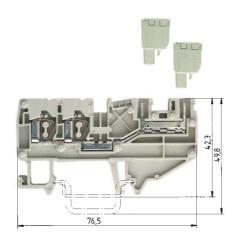
If the ground blocks of the WKF series are not used in block assemblies but are mounted to the rail as single terminal blocks, end clamps have to be used.

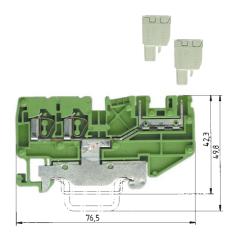
A detailed description of technical data, the standards requirements, and the application conditions can be found in catalog section *facts* & DATA.

DQS certificates for all products

- Quality standard as per DIN ISO 9001 in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
- Aib-Vincotte Certificate, Belgium
- ÖQS Certificate, Austria

Duo feed-through blocks with pluggable connection fasis





WKF 2.5 D2/8113/35

EN 60 947-7-1/DIN VDE 0611 T1 **UL** ratings CSA ratings Width

Wire strip length

Annrovals

fine stranded solid 0.13 - 2.5 mm² 0.13 - 4 mm² 250 V/4 kV/3 16 No. 22-12 AWG 300 V 15 No. 24-12 AWG 300 V 15 5 mm 11 mm

WKF 2.5 D2/8113 SL/35

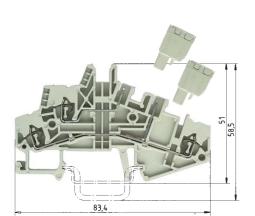
fine stranded solid Α 0.13 - 2.5 mm² 0.13 - 4 mm² 250 V/4 kV/3 16 No. 22-12 AWG 300 V No. 24-12 AWG 300 V 5 mm 11 mm

oprovals		Type	Part no. Std.	pack.	Type	Part no. Std	pack.
Duo feed-through block	Color: gray	WKF 2,5 D2/8113/35	56.703.2053.0	1	туре	Part no. Stu	. раск.
Duo leed-tiirougii block	Color: gray						
Due meaned block	Color: green/yellow	WKF 2,5 D2/8113/35 BLAU	50.703.2053.6	100	W//F 2 E D2/0112 CL/2E	E6 702 02E2 0	100
Duo ground block	0 1,				WKF 2,5 D2/8113 SL/35	56.703.9253.0	100
Double-tier block	Color: gray						
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
2. End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray	APF 2,5/D2/8113	07.312.4153.0	10	APF 2,5/D2/8113	07.312.4153.0	10
	Color: blue	APF 2,5/D2/8113	07.312.4153.6	10			
4. Partition plate	Color: gray						
	Color: blue						
5. Cross connector	2pole	IVB WKF 2,5 – 2	Z7.280.6227.0	10			
insulated (jumper bar)	3pole	IVB WKF 2,5 – 3	Z7.280.6327.0	10			
	4pole	IVB WKF 2,5 – 4	Z7.280.6427.0	10			
	5pole	IVB WKF 2,5 – 5	Z7.280.6527.0	10			
	6pole	IVB WKF 2,5 – 6	Z7.280.6627.0	10			
	7pole	IVB WKF 2,5 – 7	Z7.280.6727.0	20			
	8pole	IVB WKF 2,5 – 8	Z7.280.6827.0	20			
	9pole	IVB WKF 2,5 – 9	Z7.280.6927.0	20			
	10pole	IVB WKF 2,5 – 10	Z7.280.7027.0	20			
6. Wire entry guide	0.13 – 0.2 mm ²	LEL 2,5/1 WEISS	05.561.6553.0	100	LEL 2,5/1 WEISS	05.561.6553.0	100
	0.25 – 0.5 mm ²	LEL 2,5/2 GRAU	05.561.6653.0	100	LEL 2,5/2 GRAU	05.561.6653.0	100
	0.75 – 1.0 mm ²	LEL 2,5/3 SCHWARZ	05.561.6753.0	100	LEL 2,5/3 SCHWARZ	05.561.6753.0	100
7. Cover with warning symbol over	er 4 blocks	ADF 2,5/4 GELB	04.343.6053.8	10	ADF 2,5/4 GELB	04.343.6053.8	10
Cover with warning symbol over	er 4 poles	AD 8113/4 GELB	04.343.6853.8	10	AD 8113/4 GELB	04.343.6853.8	10
8. Screwdriver, uninsulated		DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
9. Coding strip			05.561.0053.0	100		05.561.0053.0	100
10. Test plug with sping connectio	n	PSWKC/F	Z1.299.9753.0		PSWKC/F	Z1.299.9753.0	
End plate / spacer		ZP/APPS	07.312.6053.0		ZP/APPS	07.312.6053.0	
Blank module for staggered tes	sting		01.299.9753.0			01.299.9753.0	
Marking accessories see page 48/4	-				Please see note on p	age 171	

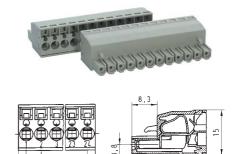
Pluggable connector

Spring clamp system 5 mm spacing

2.5 mm²







WKF 1.5 E/8113/35

fine stranded solid V A
0.13 - 1.5 mm² 0.13 - 2.5 mm² 250 V/4 kV/3 16
No. 22-14 300 V 15
No. 24-14
5 mm 8 mm

Rated voltages: VDE 0110/01.89

250 V/4 kV/3 – Overvoltage category III

400 V/4 kV/2 – Overvoltage category II

1000 V/4 kV/1 – Overvoltage category I

CSA No. 22-12 AWG

300 V

12 A

Rated current: 12 A

Type 8113 BFK

fine stranded	solid	V	А
0.13 - 2.5 mm ²	0.13 – 4 mm ²		12
22-12 AWG		300 V	12
22-12 AWG		300 V	12
5 mm			9 mm
a.			

		nated carrent. 12 A				<i>9</i> 77	
Туре	Part no. Std. pack.	Std. pack.	G	Т	Pole	Part no.	Part no.
		5 mm pitch				unmarked	marked
		100	10.00	5.00	2	25.820.3253.0	25.820.0253.0
WKF 1,5 E/8113/35	56.702.2053.0 100	100	15.00	10.00	3	25.820.3353.0	25.820.0353.0
		50	20.00	15.00	4	25.820.3453.0	25.820.0453.0
		50	25.00	20.00	5	25.820.3553.0	25.820.0553.0
35x27x7,5 EN 60715	98.300.0000.0 1	50	30.00	25.00	6	25.820.3653.0	25.820.0653.0
35x24x15 EN 60715	98.360.0000.0 1	50	35.00	30.00	7	25.820.3753.0	25.820.0753.0
9708/2 S35	Z5.522.8553.0 100	50	40.00	35.00	8	25.820.3853.0	25.820.0853.0
WEF 1/35	Z5.523.9353.0 100	50	45.00	40.00	9	25.820.3953.0	25.820.0953.0
APF 1,5/E/8113	07.312.4753.0 10	50	50.00	45.00	10	25.820.4053.0	25.820.1053.0
		50	55.00	50.00	11	25.820.4153.0	25.820.1153.0
		50	60.00	55.00	12	25.820.4253.0	25.820.1253.0
		50	65.00	60.00	13	25.820.4353.0	25.820.1353.0
IVB WKF 2,5 – 2	Z7.280.6227.0 10	50	70.00	65.00	14	25.820.4453.0	25.820.1453.0
IVB WKF 2,5 – 3	Z7.280.6327.0 10	50	75.00	70.00	15	25.820.4553.0	25.820.1553.0
IVB WKF 2,5 – 4	Z7.280.6427.0 10	50	80.00	75.00	16	25.820.4653.0	25.820.1653.0
IVB WKF 2,5 – 5	Z7.280.6527.0 10	17- to 24-pc	le configura	itions upon i	request		
IVB WKF 2,5 - 6	Z7.280.6627.0 10						
IVB WKF 2,5 - 7	Z7.280.6727.0 20						
IVB WKF 2,5 – 8	Z7.280.6827.0 20						
IVB WKF 2,5 – 9	Z7.280.6927.0 20						
IVB WKF 2,5 - 10	Z7.280.7027.0 20						
LEL 1,5/1 WEISS	05.562.2453.0 100						
LEL 1,5/2 GRAU	05.562.2553.0 100						
LEL 1,5/3 SCHWARZ	05.562.2653.0 100						
ADF 2,5/4 GELB	04.343.6053.8 10					DIN 5264 B 0,6 x 3,5	06.502.4000.0 5
AD 8113/4 GELB	04.343.6853.8 10						05.561.9153.0 100
DIN 5264 B 0,6 x 3,5	06.502.4000.0 5						
	05.561.0053.0 100						
PSWKC/F	Z1.299.9753.0						
ZP/APPS	07.312.6053.0						
	01.299.9753.0						

Disconnect blocks with spring clamp connection, type WKF

fasis

Fuse plug:

250 V \sim to VDE 0820 T2/IEC 257 Nominal voltage: - 6.3 A for single blocks- 4 A for neighbouring blocks Nominal current:

Max. power loss of the fuse insert: 1.6 W LED color red Indicator (24 V):

current consumption: 10.3 mA

Indicator (110 - 220 V): LED color red

current consumption: 0.3 mA

The current load is determined by the fuse. The voltage range is determined by the built-in LED.

**) The current load is determined by the component installed

***) For use with 5 x 20 mm fuses

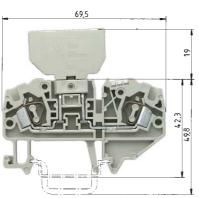
Periodic peak voltage 1000 V

Cathode¹⁾ Direction Anode of the diode: Cathode Anode2)

EN 60 947-7-1, EN 60 127-6

UL ratings CSA ratings

Width Wire strip length



WKF 4 TKG/35 with fuse holder

fine stranded solid 0.13 – 4 mm² 0.13 – 6 mm² 800 V/8 kV/3*) *) No. 22-10 AWG 600 V 10***) 300 V 6.3***) No. 22-10 AWG 6 mm 11 mm

WKF 4 TKG/35 with diode plug

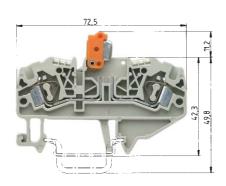
69.5

fine stranded solid $0.13 - 4 \text{ mm}^2$ $0.13 - 6 \text{ mm}^2$ 800 V/8 kV/3 **) No. 22-10 AWG 600 V 10**) 600 V 10**) No. 22-10 AWG 6 mm 11 mm

approvals		91 (1)		91. (9	
		Туре	Part no. Std. pack.	Туре	Part no. Std. pack.
Disconnect block	Color: gray	WKF 4 TKG/35	56.704.4053.0 100	WKF 4 TKG/35	56.704.4053.0 100
Fuse holder for fuse 5 x 20	Color: gray	Si ST	Z1.299.4055.0		
Fuse holder with indicator (24 V)	Color: gray	Si ST LED	Z1.299.4155.0 10		
Fuse holder with indicator (110 - 220 V)	Color: gray	Si ST GL	Z1.299.4255.0		
Diode plug – empty $J_{max} = 10 A$	Color: gray			DIST	Z1.299.3055.0
Diode plug – diode $J_{max} = 1 A$	Color: gray			DIST-1 N 4007-11)	Z1.299.3155.0
Diode plug – diode $J_{max} = 1 A$	Color: gray			DIST-1 N 4007-2 ²⁾	Z1.299.3355.0
Diode plug with jumper $J_{max} = 10 \text{ A}$	Color: gray			DIST-D	Z1.299.3255.0
Accessories					
Mounting rail 35, 7.5 mm high	L = 2 m	35x27x7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
Mounting rail 35, 15 mm high	L = 2 m	35x24x15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1
Mounting rail 35, 15 mm high	L = 2 m	35 x 27 x 15	98.370.0000.0 1	35 x 27 x 15	98.370.0000.0 1
2. End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0 100	9708/2 S35	Z5.522.8553.0 100
End clamp TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0 100	WEF 1/35	Z5.523.9353.0 100
3. End plate	Color: gray	APF 4 TK	07.312.2853.0 10	APF 4 TK	07.312.2853.0 10
Partition plate					
5. Cross connector	2pole	IVB WKF 4-2	Z7.261.1227.0 10	IVB WKF 4-2	Z7.261.1227.0 10
insulated (jumper bar)	3pole	IVB WKF 4-3	Z7.261.1327.0 10	IVB WKF 4-3	Z7.261.1327.0 10
	4pole	IVB WKF 4-4	Z7.261.1427.0 10	IVB WKF 4-4	Z7.261.1427.0 10
	5pole	IVB WKF 4-5	Z7.261.1527.0 10	IVB WKF 4-5	Z7.261.1527.0 10
	6pole	IVB WKF 4-6	Z7.261.1627.0 10	IVB WKF 4-6	Z7.261.1627.0 10
	7pole	IVB WKF 4-7	Z7.261.1727.0 20	IVB WKF 4-7	Z7.261.1727.0 20
	8pole	IVB WKF 4-8	Z7.261.1827.0 20	IVB WKF 4-8	Z7.261.1827.0 20
	9pole	IVB WKF 4-9	Z7.261.1927.0 20	IVB WKF 4-9	Z7.261.1927.0 20
	10pole	IVB WKF 4-10	Z7.261.2027.0 20	IVB WKF 4-10	Z7.261.2027.0 20
6. Wire entry guide 0.	13 – 0.2 mm ²	LEL 4/1 WEISS	05.561.8553.0 100	LEL 4/1 WEISS	05.561.8553.0 100
0.	25 – 0.5 mm ²	LEL 4/2 GRAU	05.561.8653.0 100	LEL 4/2 GRAU	05.561.8653.0 100
0.	75 – 1.0 mm²	LEL 4/3 SCHWARZ	05.561.8753.0 100	LEL 4/3 SCHWARZ	05.561.8753.0 100
7. Cover with warning symbol over 4 bloom	cks	ADF 4/4 GELB	04.343.6153.8 10	ADF 4/4 GELB	04.343.6153.8 10
8. Screwdriver, uninsulated		DIN 5264 B 0,6x3,5	06.502.4000.0 5	DIN 5264 B 0,6 x 3,5	06.502.4000.0 5
Marking accessories see page 48/49 and	nage 90/91				
	pago 00/01	I .			

Knife edge disconnect block with spring clamp connection, type WKF

The disconnecting knife in these WKF versions swing in and out on a pivot point. The distinctive color of the disconnecting lever signals the open state. The terminals can be connected with the lever open or closed.



WKF 4 TKM/35

EN 60 947-7-1/DIN VDE 0611 T1 UL ratings

CSA ratings Width

dth Wire strip length

Approvals

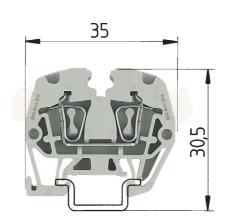
fine stranded solid V A
0.13 - 4 mm² 0.13 - 6 mm² 800 V/8 kV/3 16
No. 22-10 AWG 600 V 20
No. 22-10 AWG 600 V 20
6 mm 11 mm

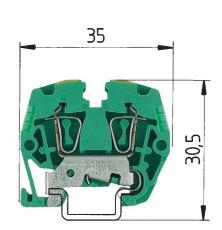
		Type	Part no.	Std. pack.
Knife edge disconnect block	Color: gray	WKF 4 TKM/35	56.704.205	53.0 100
Accessories		05 07 75 51 00745		
. Mounting rail 35, 7.5 mm high	L = 2 m	35x27x7,5 EN 60715	98.300.000	
Mounting rail 35, 15 mm high	L = 2 m	35x24x15 EN 60715	98.360.000	
Mounting rail 35, 15 mm high	L = 2 m	35 x 27 x 15	98.370.000	
2. End clamp TS 35	8 mm wide	9708/2 S35	Z5.522.855	
End clamp TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.935	53.0 100
3. End plate	Color: gray	APF 4 TKM	07.312.435	53.0 10
1. Partition plate				
5. Cross connector	2pole	IVB WKF 4-2	Z7.261.122	27.0 10
insulated (jumper bar)	3pole	IVB WKF 4-3	Z7.261.132	27.0 10
	4pole	IVB WKF 4-4	Z7.261.142	27.0 10
	5pole	IVB WKF 4-5	Z7.261.152	27.0 10
	6pole	IVB WKF 4-6	Z7.261.162	27.0 10
	7pole	IVB WKF 4-7	Z7.261.172	27.0 20
	8pole	IVB WKF 4-8	Z7.261.182	27.0 20
	9pole	IVB WKF 4-9	Z7.261.192	27.0 20
	10pole	IVB WKF 4-10	Z7.261.202	27.0 20
6. Wire entry guide	0.13 - 0.2 mm ²	LEL 4/1 WEISS	05.561.855	53.0 100
	0.25 - 0.5 mm ²	LEL 4/2 GRAU	05.561.865	53.0 100
	0.75 - 1.0 mm ²	LEL 4/3 SCHWARZ	05.561.875	53.0 100
7. Cover with warning symbol over	4 blocks	ADF 4/4 GELB	04.343.615	53.8 10
B. Screwdriver, uninsulated		DIN 5264 B 0,6x3,5	06.502.400	00.0 5

Mini spring terminals, type WKMF fasis MINI

field/factory wiring

Wire strip length





WKMF 2.5/15

fine stranded solid 0.13 - 2.5 mm² 0.13 - 2.5 mm² 500 V/6kV/3 24 No. 26-12 AWG 600 V 20 No. 26-12 AWG 300 V 20 5 mm 10 mm **SU** @ pending

WKMF 2.5 SL/15

fine stranded solid	V	Δ
0.13 - 2.5 mm ² 0.13 - 2.5 mm ²	500 V/6kV/3	24
No. 26-12 AWG	600 V	20
No. 26-12 AWG	300 V	20
5 mm	10	0 mm

viatn .pprovals	VVIII	e strip length	5 mm % § pending		10 mm	5 mm 91 (6 pending			IU M
			Type	Part no. St	d. pack.	Туре	Part no.	Std. pack.	
Feed-through termin	al	Color: gray	WKMF 2,5/15	55.703.0053.	0				
Feed-through termin	al	Color: blue	WKMF 2,5/15	55.703.0053.	6				
Ground terminal	Co	olor: green/yellow				WKMF 2,5 SL/15	55.703.9053	3.0	
Accessories									
1. Mounting rail 15, 5	5.5 mm high	L = 2 m	9021/15x5,5 EN 60715	98.090.0015.	0 10	9021/15x5,5 EN 60715	98.090.0015	5.0 10	
2. End clamp TS 15, r	metal	7.5 mm wide	9222	Z5.522.5010.	0 100	9222	Z5.522.5010	0.0 100	
End clamp TS 15, p	oolyamide	7.5 mm wide	9208 S 15	Z5.522.7553.	0 100	9208 S 15	Z5.522.7553	3.0 100	
3. End plate	1.5 mm wide	Color: gray	APMF 2,5 /15	07.312.5953.	0	APMF 2,5 /15	07.312.5953	3.0	
	1.5 mm wide	Color: blue							
	1.5 mm wide	Color: green							
4. Partition plate	1.5 mm wide	Color: gray							
	1.5 mm wide	Color: blue							
5. Cross connector	2pole	IVB WKMF 2,5 – 2	Z7.260.0229.0						
insulated (jumper bar)		3pole	IVB WKMF 2.5 – 3	Z7.260.0329.	0				
		4pole	IVB WKMF 2.5 – 4	Z7.260.0429.	0				
		5pole	IVB WKMF 2.5 – 5	Z7.260.0529.	0				
		6pole	IVB WKMF 2.5 – 6	Z7.260.0629.	0				
		7pole	IVB WKMF 2.5 – 7	Z7.260.0729.	0				
		8pole	IVB WKMF 2.5 – 8	Z7.260.0829.	0				
		9pole	IVB WKMF 2.5 – 9	Z7.260.0929.	0				
		10pole	IVB WKMF 2.5 – 10	Z7.260.1029.	0				
		50pole	IVB WKMF 2.5 – 10	Z7.260.0029.	0				
6. Wire entry guide	0.13 – 0.2 mm ²								
	0.25 – 0.5 mm ²								
	0.75 – 1.0 mm ²								
7. Cover with warnin	g symbol for 4 t	terminals							
8. Screwdriver, unins	sulated		DIN 5264 B 0,6x3,5	06.502.4000.	0 5	DIN 5264 B 0,6x3,5	06.502.4000	0.0 5	
Screwdriver, unins	sulated, MINI		DIN 5264 B 0,6x3,5 M	06.502.5000.	0 10	DIN 5264 B 0,6x3,5 M	06.502.5000	0.0 10	
Marking accessories s	ee page 48/49 a	ind page 90/91							

EN 60 947-7-1

UL ratings CSA ratings

Width

Sensor and actuator blocks with spring clamp connection, type WKF 1.5 KO...

fasis



System advantages

- ☐ Built in Bus System on the base module for power distribution (+, -, shield)
- ☐ Separate terminal for power input
- ☐ 35 mm DIN rail or panel mount
- Application advantages

 → Snapping a sensor or a
- → Snapping a sensor or actuator terminal into the base module automatically establishes direct contact to the bus har
- → No external jumper bars required
- → The configuration of the base module matches standard I/O cards of PLC's with 8 or 16 I/O
- ☐ Individual blocks can be replaced without interrupting power to the other sensor and actuator blocks
- ☐ Clear wiring with TOP connection, even in narrow spaces
- Compact design

- → Modifications and expansions can be easily and quickly done
- → Safe and easy connection of sensors and actuators

R 8 sensors or actuators can be terminated in a 45×65 mm $(1.75" \times 2.5")$ area

☐ Sensor block WKF 1.5 KOI 3L... for the connection of proximity switches



Actuator block WKF 1,5 KOA 2L... for the connection of actuators such as solenoid valves



- ☐ Sensor/Actuator terminals available with yellow LED for switch status indication
- ☐ Power input terminals available with green LED for "Power On" indication
- → Easy maintenance and remote troubleshooting of the electrical system











Reg. Nr. 14 194-02

Wieland

Cross connection (Jumpering)

- Potential commoning is achieved by snapping the blocks on to the base module
- Dead front safety covers for unused termination points

Wire entry guides

☐ Recommended for wires smaller than 18 AWG

Prevent the wires from being inserted beyond the optimal clamping point for safe and secure connections

Marking facilities

- ☐ Single marking tag in 5-mm spacing
- ☐ Marking strips (10 single marking tags) to the snap on to the terminal blocks
- ☐ Tear-off marking strips for 3-digit marking facilities per block
- ☐ Custom marking upon request

Material

☐ Metal parts

Special alloys and surface treatments provide low contact resistance and high corrosion resistance

Clamping spring: stainless CrNi steel Current Carrying bar: tin-plated copper

□ <u>Insulating material</u>

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housing: Polyamide 66/6 Tracking resistance: CTI 600 Flammability class: UL 94 V-2

(see also section **facts** & DATA)

Our wieplan software helps to plan your DIN rail terminal block assemblies (see page 10/11).

☐ Quality standard as per DIN ISO 9001 in Development, Production, Assembly

- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain

DQS certificates for all products

- SQS Certificate, Switzerland - Aib-Vincotte Certificate, Belgium
- ÖQS Certificate, Austria

Note

The information regarding crosssectional areas and connection types pertains to wires without ferrules. Ferrules are not neccessary for secure connection.

The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, Wieland offers a large selection of appopriate accessories.

A detailed description of technical data, the standards requirements, and the application conditions can be found in catalog section facts & DATA.

Sensor and actuator blocks with spring clamp connection, type WKF 1.5 KO...

fasis

field/factory wiring

Wire strip length

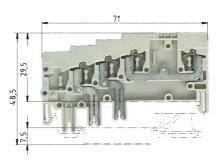
EN 60 947-7-1/DIN VDE 0611 T1

UL ratings

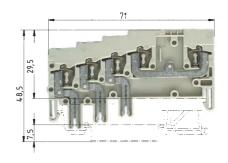
Approvals

Width

CSA ratings







| 37.702.8553.0 | SL + - | PC 24 V | Same as picture but with LED | SL + - | PC 24 V | Same as picture but with LED | SL + - | PC 24 V | Same as picture but with LED | SL + - | PC 24 V | Same as picture but with LED | SL + - | PC 24 V | Same as picture but with LED | SL + - | PC 24 V | Same as picture but with LED | SL + - | PC 24 V | SAME as picture but with LED | SL + - | PC 24 V | SAME as picture but with LED | SL + - | PC 24 V | SAME as picture but with LED | SL + - | PC 24 V | SAME as picture but with LED | SL + - | PC 24 V | SAME as picture but with LED | SL + - | PC 24 V | SAME as picture but with LED | SL + - | PC 24 V | SAME as picture but with LED | SL + - | PC 24 V | SAME as picture but with LED | SL + - | PC 24 V | SAME as picture but with LED | SL + - | PC 24 V | SAME as picture but with LED | SAME as picture but

Α

WKF 1.5 KOI 3L...

fine stranded solid V 0.13 – 1.5 mm² 0.13 – 1.5 mm² *

No. 28-16 AWG 65 V 10 A 5 mm 10 mm

WKF 1.5 KOI 3L/SL...

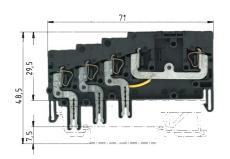
fine stranded solid

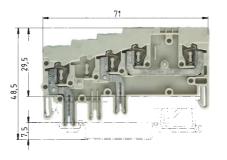
37.702.7553.0

10

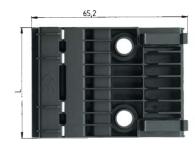
0.13 – 1.5 mm² 0.13 – 1.5 mm² * 10 No. 28-16 AWG 65 V 10 A 5 mm 10 mm

	•			5		10 11111
	Туре	Part no. Std. p	oack.	Туре	Part no. Std	. pack.
Color: gray	WKF 1,5 KOI 3L	37.702.7453.0	50			
Color: gray	WKF 1,5 KOI 3L-PGE	37.702.8453.0	50			
Color: gray				WKF 1,5 KOI 3L/SL	37.702.7553.0	50
Color: black				WKF 1,5 KOI 3L/SL-PGE	37.702.8553.0	50
Color: black						
Color: gray						
Color: gray						
Color: gray						
Color: black						
Color: black						
L = 2 m	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1
L = 2 m	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1
8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
2pole						
3pole						
4pole						
5pole						
6pole						
7pole						
8pole						
9pole						
10pole						
0.13 – 0.2 mm ²	LEL 1,5/1 WEISS	05.562.2453.0	100	LEL 1,5/1 WEISS	05.562.2453.0	100
0.25 – 0.5 mm ²	LEL 1,5/2 GRAU	05.562.2553.0	100	LEL 1,5/2 GRAU	05.562.2553.0	100
0.75 – 1.0 mm ²	LEL 1,5/3 SCHWARZ	05.562.2653.0	100	LEL 1,5/3 SCHWARZ	05.562.2653.0	100
	DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
	Color: gray Color: black Color: black Color: gray Color: gray Color: gray Color: gray Color: black Color: bla	Color: gray WKF 1,5 KOI 3L Color: gray WKF 1,5 KOI 3L-PGE Color: black Color: black Color: gray Color: gray Color: gray Color: gray Color: black Color: black Color: black Color: black Color: black L = 2 m 35x27x7,5 EN 60715 L = 2 m 35x24x15 EN 60715 8 mm wide 9708/2 S35 8 mm wide WEF 1/35 2pole 3pole 4pole 5pole 6pole 7pole 8pole 9pole 10pole 0.13 - 0.2 mm² LEL 1,5/1 WEISS 0.25 - 0.5 mm² LEL 1,5/2 GRAU 0.75 - 1.0 mm² LEL 1,5/3 SCHWARZ	Color: gray WKF 1,5 KOI 3L 37.702.7453.0 Color: gray WKF 1,5 KOI 3L-PGE 37.702.8453.0 Color: gray Color: black Color: black Color: gray Color: gray Color: black Color: black Color: black S8.300.0000.0 L = 2 m 35x27x7,5 EN 60715 98.360.0000.0 8 mm wide 9708/2 S35 25.522.8553.0 8 mm wide WEF 1/35 25.523.9353.0 2pole 3pole 4pole 5pole 6pole 7pole 8pole 9pole 10pole 0.13 - 0.2 mm² LEL 1,5/1 WEISS 05.562.2453.0 0.75 - 1.0 mm² LEL 1,5/2 GRAU 05.562.2653.0	Color: gray Color: gray WKF 1,5 KOI 3L 37.702.7453.0 50 Color: gray Color: gray Color: black Color: gray Color: black Color: gray Color: gr	Color: gray WKF 1,5 K0l 3L 37.702.7453.0 50 Color: gray WKF 1,5 K0l 3L-PGE 37.702.8453.0 50 Color: black WKF 1,5 K0l 3L/SL WKF 1,5 K0l 3L/SL WKF 1,5 K0l 3L/SL PGE Color: black Color: gray Color: gray Color: black Color: bla	Color: gray Color: gray Color: black Color: gray Color: gray Color: gray Color: spay Color: gray Color: gray Color: gray Color: black Color: gray Color: spay Color: black Color: gray Color: black Color: gray Color: black Color: black Color: gray Color: black Color: gray Color: black









37.702.7753.0 * 65 V/1.5 kV/3



37.702.8753.0 * DC 24 V same as picture, but with LED







37.702.8653.0* DC 24 V same as picture but with LED

WKF 1.5 KOE...

No. 28-16 AWG 10 A 5 mm 65 V

WKF 1.5 KOA 2L...

No. 28-16 AWG 65 V 10 A 5 mm 10 mm VM WKF...

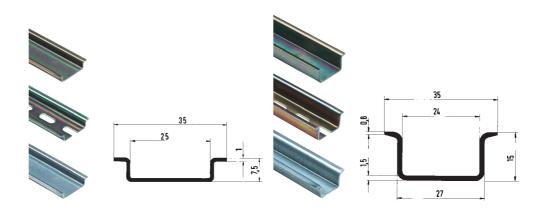
V A * 10 65 V 10 A

9pole module $L = 9 \times 5 \text{ mm} + 1.5 \text{ mm}$ 18pole module $L = 18 \times 5 \text{ mm} + 1.5 \text{ mm}$

5 mm		10 mm	5 mm			10 mm	Repole module	L = 18 x 5 mm +	mm c.ı
Туре	Part no. Std.	pack.	Туре	Part no. Std.	pack.		Туре	Part no. Std.	pack.
WKF 1,5 KOE	37.702.7753.0	50							
WKF 1,5 KOE-PGN	37.702.8753.0	50							
			WKF 1,5 KOA 2L	37.702.7653.0	50				
			WKF 1,5 KOA 2L/SL-PGE	37.702.8653.0	50				
							VM WKF KO9	69.700.0953.0	10
							VM WKF KO18	69.700.1853.0	5
35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0	1		35x27x7,5 EN 60715	98.300.0000.0	1
35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	1		35x24x15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100		9708/2 S35	Z5.522.8553.0	100
WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100		WEF 1/35	Z5.523.9353.0	100
LEL 1,5/1 WEISS	05.562.2453.0	100	LEL 1,5/1 WEISS	05.562.2453.0	100				
LEL 1,5/2 GRAU	05.562.2553.0		LEL 1,5/2 GRAU	05.562.2553.0	100				
LEL 1,5/3 SCHWARZ	05.562.2653.0	100	LEL 1,5/3 SCHWARZ	05.562.2653.0	100				
							AD VM-1,5/8 SCHWARZ	04.343.8053.0	10
DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5				

Accessories for DIN rail terminal blocks with spring clamp connection, type WKF

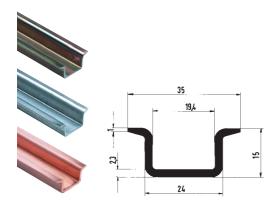
fasis -



Mounting Rail 35 x 7.5 to standard DIN EN 60715

Mounting Rail 35 x 15 to standard DIN EN 60715

			to standard Dirv E	11 007 13	to standard Diff	LIN 007 13
			Туре	Part no. Std. pack.	Type	Part no. Std. pack.
Mounting Rail						
1. Steel zinc plated, dichromate	solid	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 15 EN 60715	98.370.0000.0 1
Steel zinc plated, dichromate	slotted	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.1000.0 1	35 x 27 x 15 EN 60715	98.370.1000.0 1
2. Steel, unplated	solid	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0010.0		
Steel, unplated	slotted	L = 2 m				
3. Steel, zinc plated	solid	L = 2 m				
Steel, zinc plated	slotted	L = 2 m				
4. Copper	solid	L = 2 m				
Copper	slotted	L = 2 m				
5. Aluminum	solid	L = 2 m	35 x 27 x 7,5 EN 60715	98.750.0000.0		
Aluminum	slotted	L = 2 m	35 x 27 x 7,5 EN 60715	98.800.1000.0		
6. Stainless steel	solid	L = 2 m	35 x 27 x 7,5 EN 60715	98.330.0000.0		
End clamp						
7. End clamp with screw for 35 n	nm rail 8	mm wide				
8. End clamp with screw for 35 mr	m rail					
with marking plate	8/17.5	mm wide				
9. End clamp, screwless, for 35 r	mm rail 8	mm wide				
10. End clamp, screwless, for 35 m						
with marking plate	8/17.5	mm wide				
for terminal rails						
11. Bus bar holder	8	mm wide				
Busbar support, with screw		8 mm				
12. Clamping screw for mounting	rail					
13. Optional label carrier						
14. Paper Markers in perforated sh	heet form					







Mounting Rail 35 x 15 to standard DIN EN 60715

End clamp for TS 35 with screw connection

End clamp for TS 35 screwless connection

to standard DIN E	:N 60715	with screw	connection		screwless connection			
уре	Part no. Std. pack.	Туре	Part no. St	d. pack.	Туре	Part no.	Std. pack.	
5 x 27 x 15 EN 60715	98.360.0000.0 1							
35 x 27 x 15 EN 60715 ZN	98.360.0004.0 1							
35 x 27 x 15 EN 60715 CU	98.380.0000.0 10							
		9708/2 S 35	Z5.522.8553.0	100				
		9708/2 BS/35	69.920.0553.0	100				
					WEF 1/35	Z5.523.9353.0	100	
					WEF 1 BS/35	69.920.1053.0	100	
					WKIF SH/E/35	Z1.108.8453.0	10	
						69.920.1153.0		
						05.091.0200.0		
					BSIR	Z4.243.8453.0		
						04.019.0289.0	10	
			04.019.0289.0	10				

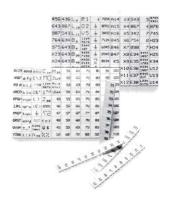
Marking accessories for DIN rail terminal blocks fasis





wiemarc wieplot MUT

Type	Part no. Std. pack			Type	Part no. Std. pack	
wiemarc CD	95.502.0501.0	Description		wieplot MUT	95.502.0601.0	
		wieplot MUT is	a plotter system that uses wiemarc			
Discription		to interface with	a PC, allowing custom printing on			
wiemarc is a V	Windows® based plotter software	standard Wielan	d marking tags. These standard	Standard template	95.502.0621.0	
(Windows 95/98	B/ME/NT/XP) that is able to drive th	ne marking tags pro	ovide circuit identification for Wieland	for all Wieland tags		
following plotte	r systems:	DIN rail mount t	erminal blocks, rectangular multipole			
		connectors and	WEB/WEG electronic housings.			
- wieplot MUT	(Mutoh system)					
– Roland systen	n					
for custom pri	nting on standard Wieland marking	tags. Resolution:	0.025 mm			
		Accuracy:	+/- 0.1 mm			
		Power supply:	50/60 Hz, 180 – 264 V,			
wiemarc make	es preparing data for custom printi	ng	90 – 132 V			
easier and faste	r than ever.		Automatic switch over from			
Intuitive handlin	g allows printing of marking tag ca	irds in	110 V to 230 V			
single, multipole	e and series marking jobs.	Power rating:	About 0.3 A for 220 V			
Import of marki	ng data from Excel files, text files a	and Approvals:	UL-UL478 (REV .4)			
CAD/CAE progr	ams is possible.		CSA-22.2 No. 220 and			
wiemarc data	file management is user-friendly a	s	VDE EN 60 950			
printing data car	n be stored and found very easily i	n the Interference:	FCC Class B			
file library.			FCC Part 15 and VDE Class B			
wiemarc knov	vs several special characters for	Dimensions:	620 mm x 425 mm x 106.5 mm			
electrical markin	ng.	Weight:	6.4 kg			
wiemarc is ab	le to mark tags with upward or	Interfaces:	RS-232 C and parallel			
downward serie	es, series steps can be chosen as v	well	(Centronics)			
as leading or fol	lowing characters. Multipole line					
printing is possi	ble depending on tag size, number	r of				
digits and type s	size. Automatic adaptation of type	size				
according to tag	size and number of digits.					
Requirements:						
Pentium II PC o	r compatible, min. 200 MHz or hig	her,				
64 MByte RAM	, CD-ROM Drive, VGA Grafic Adap	tor				
and Monitor						
wiemarc supp	orts Windows 95®, Windows 98®,					
	®, Windows NT®, Windows ME® ar					
Windows XP® F						



Accessories

	Туре	Part no.	Std. pack	Type			Part no).	Std. pa	ck	
Accessory kit consists of plotter pen 0.25 mm,				Marker (Cards:						
Ink-cartridge, permanent plotter pen 0.3 mm and				110 tags	per ca	rd					
cleaning set.				9075 A/5/1	0/11		Z4.24	2.505	3.0		
Accessory kit (pen basic equipment)		95.502.060	12 0	60 tags p		4			-		
7 tooosofy kit (port basic oquipment)		00.002.000		9705 AL/5/		<u></u>	74.24	2.515	2 0		
Plotter pens for ROLAND and wieplot MUT				110 tags		rd	24.24	2.010	3.0		
					•	Iu	74.04	0.005	2.0		
systems:				9705 A/6/1			Z4.24	2.605	3.0		
Plotter pen 0.18 mm		95.502.011		60 tags p	er car	d					
Plotter pen 0.25 mm		95.502.012	15.0	9705 AL/6/	10/6		Z4.24	2.615	3.0		
Plotter pen 0.35 mm		95.502.013	5.0	84 tags p	er car	b					
Plotter pen 0.50 mm		95.502.015	0.0	9705 A/6.7	/12/7		Z4.24	2.675	3.0*		
Plotter pen 0.70 mm		95.502.017	0.0	36 tags p	er car	d					
Plotter pen 1.00 mm		95.502.010	0.0	9705 AL/6.	7/12/7		Z4.24	2.685	3.0*		
				*must us	se mul	ti-card	templa	ate			
Permanent Plotter pen				9705 A/8/1				2.805	3.0*		
0.30 mm black		95.502.023	80 O	07007,407	0, ,			2.000			
0.70 mm black		95.502.027									
0.70 ITIIII black		90.002.027	0.0		0075 4	007541	9075A/	0075 AL /	0075 1/	0075417	0075 4
							6/10/11				
Permanent Plotter pen set				fasis WKF 2.5	х	х					
consisting of black, red, blue, green pen.				WKF 4	^	^	Х	Х			
set 0.30 mm		95.502.023	34.0	WKF 6 WKF 10	X*	X*			Х	X*	Х
set 0.70 mm		95.502.027	4.0	WKF 16	^	^	X*	X*			
				WKMF 2.5	Х	Х					
Hand pens				WKC 1	Х	Х					
Hand pen 0.25 mm		95.502.042	5.0	WKC 2.5			Х	Х			
Hand pen 0.35 mm		95.502.043	35.0	selos WK 2.5	х	х					
Hand pen 0.50 mm		95.502.045	50.0	WK 4			Х	Х			
Hand pen 0.70 mm		95.502.047	0.0	WK 6 WKN 10	X*	X*			X ⁺	X ⁺	Х
Ink cartridge P1.0 5 x 1 ml		95.502.019		WKN 16			X*	X*			
				WKN 35 WKN 70					X+ X+	X+ X+	X*
Cleaning set		95.502.019		WKM 2.5	Х	Х					
Pen cleaner		95.502.019	17.0	WKM 4 9220 A/6			X	X			
				9700 A/5	Х	Х					
wiemarc-Templates for Wieland cards:				9700 A/6 9700 A/8			Х	Х	X ⁺	X ⁺	Х
for updating existing plotter systems to wiemarc				9700 A/10	X*	X*					
for marcom 2000 and Phoenix CMS-System		95.502.062	1.0	9700 A/12 9700 A/16			X*	X*	X+	X+	
for Weidmueller M-Print (Mutoh IP 220)		95.502.062	2.0	* 2 strips nee					_ ^	^	
for murrplastic ACS (Roland DXY1150A) set high		95.502.062	3.0	+ markers mu Note: the AL-				at the A-r	markere		
for Wago System and murrplastic ACS set low		95.502.062					allow mo				

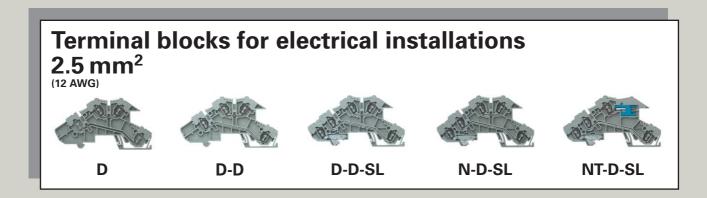
Terminal blocks for electrical installations

type WKI

fasis BIT

Terminal blocks with spring connection for junction boxes

fasis BIT



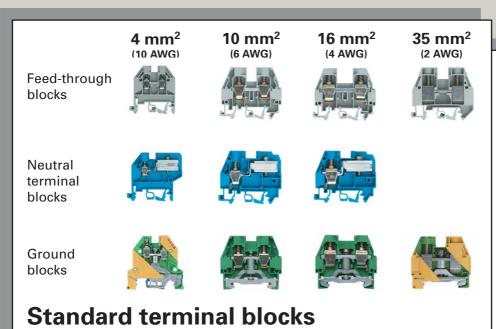


Standard terminal blocks 4 mm² (10 AWG) (6 AWG) (4 AWG) Neutral disconnect blocks Ground blocks

Terminal blocks with screw connection for junction boxes

selos BIT

Terminal blocks for electrical installations 4 mm² (10 AWG) D-D-SL N-D-SL NT-D-SL NTN-D-SL TKG-D-SL



PEN assembly blocks

10 mm² (6 AWG) 16 mm² (4 AWG)





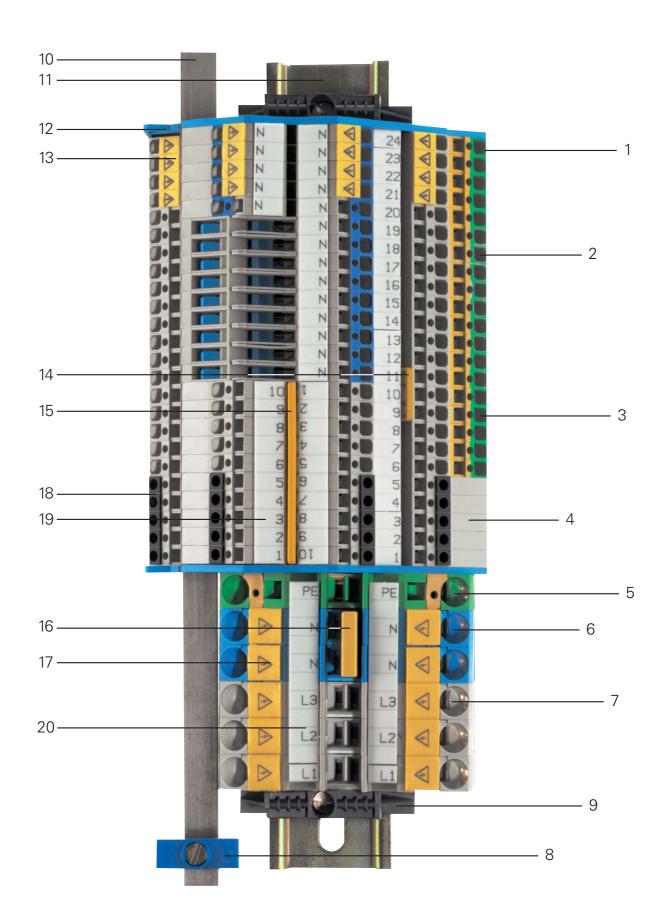






Terminal blocks for electrical installations with spring connection, type *WKIF*

fasis BIT



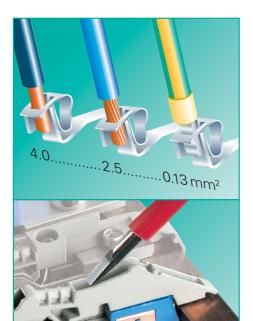
Item	Description	Туре	Part number
1	Installation blocks	WKIF 2.5 N-D-SL	56.703.9453.0
2	Installation blocks	WKIF 2.5 NT-D-SL	56.703.9553.0
3	Installation blocks	WKIF 2.5 D-D-SL	56.703.9853.0
4	Installation blocks	WKIF 2.5 D-D	56.703.9753.0
_		NAWE 40 OL 105	50.740.0050.0
5	Ground block	WKF 10 SL/35	56.710.9053.0
6	Feed through block	WKF 10/35 BLAU	56.710.0053.6
7	Feed through block	WKF 10/35	56.710.0053.0
8	Connector clamp	WAK 16/2 BLAU	30.494.3021.6
9	End clamp	9708/2 S35	Z5.522.8553.0
	'	·	
10	Busbar 10 x 3	9813 M Sn	98.290.1000.0
11	Mounting rail	35×27×7.5	98.300.0000.0
12	Busbar support	WKIF/SH/35	01.108.7653.0
13	Cover with warning symbol	ADF 2.5/4 GELB	04.343.6053.8
14	Cross connector, insulated	IVB WKF 2.5-3	Z7.280.6327.0
15	Cross connector, insulated	IVB WKF 2.5-10	Z7.280.7027.0
16	Cross connector, insulated	IVB WKF 10-2	Z7.283.8227.0
17	Cover with warning symbol	ADF 10/4 GELB	04.343.6453.8
18	Wire entry guide	LEL 2.5/3 SCHWARZ	05.561.6753.0
19	Marking strips *	9705 A/5/10 B	04.842.5053.0
20	Marking strips *	9705 A/5/10/5 B	04.842.5553.0

^{*}Custom marking upon request



Terminal blocks for electrical installations with spring connection, type WKIF

fasis BIT



WKIF provides ...

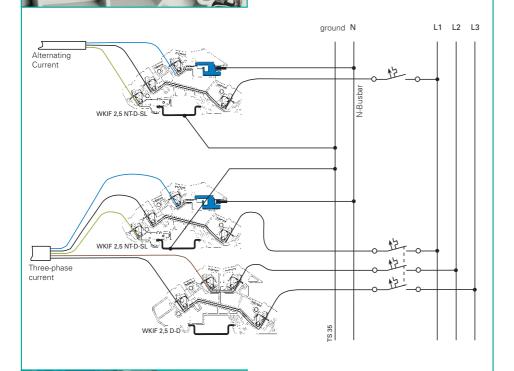
- Very convenient operation due to screwless spring connection
- ☐ Small package in a three-tier design
- ☐ Screwless neutral conductor disconnect

Application advantages

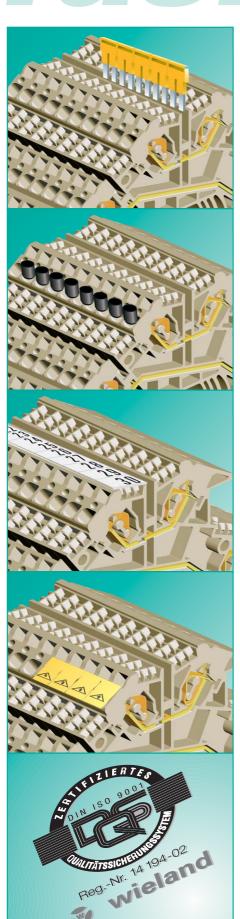
- → The TOP connection technique enables easy and safe wiring according to EN 60947-7-1 even in narrow spaces which are difficult to access
- → High density as the installation blocks are only 5mm wide
- → Suited for small junction boxes with cover according to DIN 43871
- → Maintenance-friendly design for aftersales service and inspection
- → Blue indicator shows the state of the neutral circuit
- → Fast and safe disconnection of the neutral conductor with WKIF 2.5 NT-D-SL
- ☐ **fasis** BIT is designed to meet the wiring and installation requirements of distribution systems in commercial and institutional buildings (such as hospitals, schools, shopping malls, theaters, office buildings, airports) according to VDE 0100 (IEC 60364) and standard control requirements.
- WKIF 2.5 NT-D-SL allows the required circuit isolation test without disconnecting the neutral conductor
- WKIF offers installation terminal blocks in 5 versions:

WKIF 2.5 D WKIF 2.5 D-D WKIF 2.5 D-D-SL WKIF 2.5 N-D-SL WKIF 2.5 NT-D-SL

- other applications include control wiring.
 For example, analog signal (+, -, shield) all in one terminal block.
- → The terminal blocks for electrical installations of the WKIF series in the NT version can be combined with ...
 - ...the terminal blocks of the WKI series (screw connection style)
 - ...the neutral disconnect blocks (ETK) of the WKN series (screw connection style)



Connection slot on the terminal block for the neutral busbar.



Cross connection

- ☐ Jumpering with insulated cross connector **IVB** WKF 2.5...
- No partition plates required between adjacent cross connectors
- ☐ Cross connectors IVB WKF 2.5... are rated for the same current as the terminal block

☐ Metal parts

Material

Special allovs enable a low contact resistance and provide a gas-tight contact area

Clamping spring: stainless CrNi steel Current carrying bar: tin-plated copper

□ Insulation material

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housings: Polyamide 66/6 Tracking current resistance: CTI 600 Flammability class: UL 94-V0

(also see master catalog section facts & DATA)

Wire entry guide

- ☐ Wire entry guides **LEL** are recommended when connecting wires with cross sections below 1 mm² or 18 AWG
- ☐ Wire entry guides **LEL** prevent the wires from being inserted beyond optimal clamping position and therefore guarantee safe connection

Marking facilities

- ☐ Marking facility is down the center so that the marking tag is not covered by the conductor
- ☐ Tear-off marking strips for 3-digit marking facilities per block
- ☐ Single marking tags in 5 mm spacing
- ☐ Marking strips (10 individual marking tags) to snap on to 10 terminal blocks
- Custom marking upon request

You can use our wieplan software to configure your own terminal block assemblies (see page 10/11).

Cover with warning symbol

- ☐ Cover with warning symbol **ADC** to snap on to blocks which remain live when the main switch is disconnected (VDE 0113)
- Can only be removed with a screwdriver

DQS certificates for all company divisions

- Quality standard as per DIN ISO 9001 in development, production and assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
- BSI Certificate, Great Britain
- SQS Certificate, Switzerland
- Aib-Vincotte Certificate, Belgium
- ÖQS Certificate, Austria

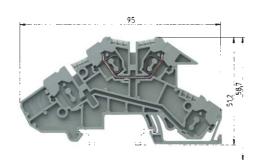
Note:

The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules.

The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, Wieland offers a large selection of appropriate accessories.

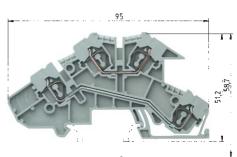
A detailed description of technical data, the standards' requirements, and the application conditions can be found in part catalog section facts & DATA: "Technical information".

Terminal blocks for electrical installations, type WKIF fasis BIT



Upper tier equipped only!

D – line feedthrough, upper tier



D - line feedthrough D - line feedthrough

WKIF 2.5 D

EN 60947-7-1/DIN VDE 0611 T1
UL ratings field/factory wiring
CSA ratings
Width Wire strip length

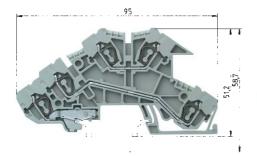
fine stranded solid V A 0.13 – 2.5 mm² 0.13 – 4 mm² 400 V/6 kV/3 24 UL 30.13 – 4 m² 400 V/6 kV/3 24

No. 22-12 AWG 300 V 20 5 mm 11 mm

WKIF 2.5 D-D

fine stranded solid V A $0.13-2.5~\text{mm}^2$ $0.13-4~\text{mm}^2$ 400~V/6 kV/3 24~UL No. 22-12 AWG 300 V 20 5 mm 11 mm

		Type	Part no.	Std. pack	Type	Part no.	Std. pack
Installation block	Color: gray	WKIF 2,5 D	56.703.9653.0	50	WKIF 2,5 D-D	56.703.9753.0	50
Accessories							
1.Mounting rail TS 35, DIN rail 7.5mm	high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15mm	high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp for TS 35, without screw	s 8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	1.5 mm wide	APIF 2,5	07.311.8353.0	10	APIF 2,5	07.311.8353.0	10
4. Cross connector, insulated jumper b	ar 2pole	IVB WKF 2,5-2	Z7.280.6227.0	10	IVB WKF 2,5-2	Z7.280.6227.0	10
	3pole	IVB WKF 2,5-3	Z7.280.6327.0	10	IVB WKF 2,5-3	Z7.280.6327.0	10
	4pole	IVB WKF 2,5-4	Z7.280.6427.0	10	IVB WKF 2,5-4	Z7.280.6427.0	10
	5pole	IVB WKF 2,5-5	Z7.280.6527.0	10	IVB WKF 2,5-5	Z7.280.6527.0	10
	6pole	IVB WKF 2,5-6	Z7.280.6627.0	10	IVB WKF 2,5-6	Z7.280.6627.0	10
	7pole	IVB WKF 2,5-7	Z7.280.6727.0	20	IVB WKF 2,5-7	Z7.280.6727.0	20
	8pole	IVB WKF 2,5-8	Z7.280.6827.0	20	IVB WKF 2,5-8	Z7.280.6827.0	20
	9pole	IVB WKF 2,5-9	Z7.280.6927.0	20	IVB WKF 2,5-9	Z7.280.6927.0	20
	10pole*	IVB WKF 2,5-10	Z7.280.7027.0	20	IVB WKF 2,5-10	Z7.280.7027.0	20
5. Wire entry guide	0.13 – 0.2 mm ²	LEL 2,5/1 WEISS	05.561.6553.0	100	LEL 2,5/1 WEISS	05.561.6553.0	100
	0.25 – 0.5 mm ²	LEL 2,5/2 GRAU	05.561.6653.0	100	LEL 2,5/2 GRAU	05.561.6653.0	100
	0.75 – 1.0 mm ²	LEL 2,5/3 SCHWARZ	05.561.6753.0	100	LEL 2,5/3 SCHWARZ	05.561.6753.0	100
6. Cover with warning symbol over 4 b	olocks	ADF 2,5/4 GELB	04.343.6053.8	10	ADF 2,5/4 GELB	04.343.6053.8	10
7. Busbar, E-Cu 10 x 3 mm, tin-plated	L = 1 m	9813 M Sn	98.290.1000.0	1	9813 M Sn	98.290.1000.0	1
8. Connector clamp for busbar							
16 mm ²	8.5 mm wide	WAK 16/2 BLAU	30.494.3021.6	100	WAK 16/2 BLAU	30.494.3021.6	100
35 mm²	17 mm wide	WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50
9. Busbar support	2 mm wide	WKIF/SH/35	01.108.7653.0	10	WKIF/SH/35	01.108.7653.0	10
Busbar support, as end clamp	8 mm wide	WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10
10. Screwdriver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
Marking accessories see page 48/49 ar		*Available up to 20 p					

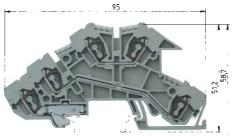


D - line feedthrough D - line feedthrough SL - ground

WKIF 2.5 D-D-SL

fine stranded solid V $0.13 - 2.5 \text{ mm}^2$ $0.13 - 4 \text{ mm}^2$ 400 V/250 V/4 kV/3 24 UL

No. 22-12 AWG 300 V 5 mm 11 mm

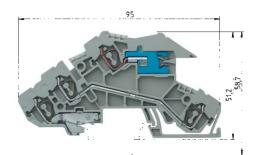


D - line feedthrough N - neutral feedthrough SL - ground

WKIF 2.5 N-D-SL

fine stranded solid \/ $0.13 - 2.5 \text{ mm}^2$ $0.13 - 4 \text{ mm}^2$ 400 V/250 V/4 kV/3 24 UL

No. 22-12 AWG 300 V 5 mm 11 mm



D - line feedthrough NT - neutral feedthrough, disconnectable

SL - ground

WKIF 2.5 NT-D-SL

fine stranded solid $0.13 - 2.5 \text{ mm}^2$ $0.13 - 4 \text{ mm}^2$ 400 V/250 V/6 kV/3 20UL No. 22-12 AWG 300 V

5 mm 11 mm

Type	Part no.	Std. pack	Туре	Part no.	Std. pack	Type	Part no.	Std. pack
WKIF 2,5 D-D-SL	56.703.9853.0	50	WKIF 2,5 N-D-SL	56.703.9453.0	50	WKIF 2,5 NT-D-SL	56.703.9553.0	50
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
		•			•			
9708/2 S35	Z5.522.8553.0		9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
WEF 1/35	Z5.523.9353.0		WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
APIF 2,5	07.311.8353.0	10	APIF 2,5	07.311.8353.0	10	APIF 2,5	07.311.8353.0	10
IVB WKF 2,5-2	Z7.280.6227.0	10	IVB WKF 2,5-2	Z7.280.6227.0	10	IVB WKF 2,5-2	Z7.280.6227.0	10
IVB WKF 2,5-3	Z7.280.6327.0	10	IVB WKF 2,5-3	Z7.280.6327.0	10	IVB WKF 2,5-3	Z7.280.6327.0	10
IVB WKF 2,5-4	Z7.280.6427.0	10	IVB WKF 2,5-4	Z7.280.6427.0	10	IVB WKF 2,5-4	Z7.280.6427.0	10
IVB WKF 2,5-5	Z7.280.6527.0	10	IVB WKF 2,5-5	Z7.280.6527.0	10	IVB WKF 2,5-5	Z7.280.6527.0	10
IVB WKF 2,5-6	Z7.280.6627.0	10	IVB WKF 2,5-6	Z7.280.6627.0	10	IVB WKF 2,5-6	Z7.280.6627.0	10
IVB WKF 2,5-7	Z7.280.6727.0	20	IVB WKF 2,5-7	Z7.280.6727.0	20	IVB WKF 2,5-7	Z7.280.6727.0	20
IVB WKF 2,5-8	Z7.280.6827.0	20	IVB WKF 2,5-8	Z7.280.6827.0	20	IVB WKF 2,5-8	Z7.280.6827.0	20
IVB WKF 2,5-9	Z7.280.6927.0	20	IVB WKF 2,5-9	Z7.280.6927.0	20	IVB WKF 2,5-9	Z7.280.6927.0	20
IVB WKF 2,5-10	Z7.280.7027.0	20	IVB WKF 2,5-10	Z7.280.7027.0	20	IVB WKF 2,5-10	Z7.280.7027.0	20
LEL 2,5/1 WEISS	05.561.6553.0	100	LEL 2,5/1 WEISS	05.561.6553.0	100	LEL 2,5/1 WEISS	05.561.6553.0	100
LEL 2,5/2 GRAU	05.561.6653.0	100	LEL 2,5/2 GRAU	05.561.6653.0	100	LEL 2,5/2 GRAU	05.561.6653.0	100
LEL 2,5/3 SCHWARZ	05.561.6753.0	100	LEL 2,5/3 SCHWARZ	05.561.6753.0	100	LEL 2,5/3 SCHWARZ	05.561.6753.0	100
ADF 2,5/4 GELB	04.343.6053.8	10	ADF 2,5/4 GELB	04.343.6053.8	10	ADF 2,5/4 GELB	04.343.6053.8	10
9813 M Sn	98.290.1000.0	1	9813 M Sn	98.290.1000.0	1	9813 M Sn	98.290.1000.0	1
WAK 16/2 BLAU	30.494.3021.6	100	WAK 16/2 BLAU	30.494.3021.6	100	WAK 16/2 BLAU	30.494.3021.6	100
WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50
WKIF/SH/35	01.108.7653.0	10	WKIF/SH/35	01.108.7653.0	10	WKIF/SH/35	01.108.7653.0	10
WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10
DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5

DIN rail terminal blocks with spring connection, type *WKF*

fasis BIT



WKF provides ...

☐ Spring connection technology – screwless connection

Separation of electrical and mechanical functions

□ TOP connection

Wire entry and operation in same plane

□ Testing capabilities

□ Neutral conductor disconnect function

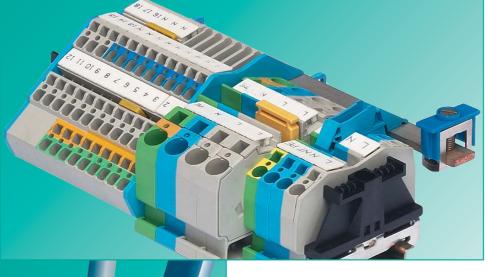
☐ Economic system

Application advantages

- → Dynamic terminal connection Balances the cold flow properties of the connection
- → Personnel cannot influence the clamping force (no torque specs) The clamping force required to connect a certain conductor, is determined by the spring element at the clamp
- → Secure and maintenance-free electrical connection according to EN 60947-7-1
- → Clear wiring in difficult and confined wiring applications
- → Testing is possible on all termination points by means of test plugs of up to 2.3 mm in diameter without having to disconnect the wires
- → Screwless disconnect unit Easy and safe disconnection of the neutral circuit with visual display of the circuit state
- → Time-saving due to pluggable accessories



- ☐ The neutral disconnect blocks of the WKIF/WKF series enable the required circuit isolation test without disconnecting the neutral conductor
- ☐ **fasis** BIT is suited for small junction boxes with cover according to DIN 43871



□ Connection capabilities

The clamping bodies of the WKFseries can take in any copper conductor types without ferrules

Due to the construction of the funnelled wire entry, stripped wires can be connected without causing wire splitting, provided that they are used in the proper way

□ Tool

For an optimal operation of our terminal blocks with spring connection we recommend to use the following DIN 5264 screwdrivers

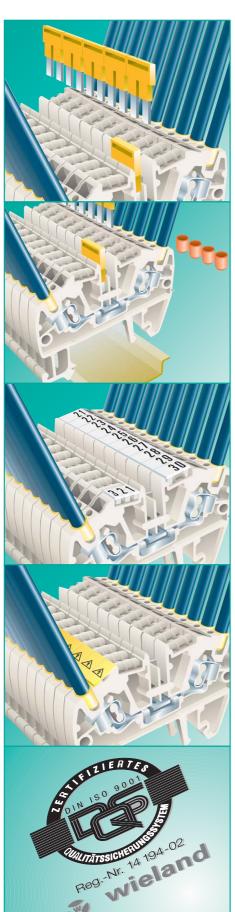
i.e. cylinder-shaped screwdrivers with wedge-shaped blades

 Both solid and stranded wires with and without ferrules can be connected to the WKF terminal blocks

→ Rated
cross section
12 AWG 2.5 mm²
10 AWG 4 mm²

12 AWG 2.5 mm² 10 AWG 4 mm² 6 AWG 10 mm² 16 mm² **Blade dimensions of the screwdrivers** $0.6 \times 3.5 \text{ mm}$ $0.6 \times 3.5 \text{ mm}$

0.8 x 4.0 mm 1.0 x 5.5 mm



Cross connection

- ☐ The insulated jumper bars **IVB** WKF... are completely touchproof
- Partition plates are therefore not required between adjacent jumper bars of different potentials
- The insulated jumper bars IVB WKF... carry the same rated current as the corresponding feed through terminal block

Wire entry guides

- Wire entry guides LEL are recommended when connecting wires with cross sections below 1 mm² or 18 AWG
- Wire entry guides LEL keep the wires from being inserted too far and therefore guarantee safe connection

Marking facilities

- Marking facility is down the center so that the marking tag is not covered by the conductor
- Individual marking tag in 5mm spacing
- Snap-on marking strips
 (10 individual marking tags) for terminal block assemblies
- ☐ Tear-off marking strips for 3-digit marking facilities per block
- ☐ Custom marking upon request

Cover with warning symbol

- Cover with warning symbol ADC to snap on to blocks which remain live when the main switch is disconnected (VDE 0113)
- ☐ The cover can only be removed with a screwdriver

DQS certificates for all companydivisions

- Quality standard as per DIN ISO 9001in development, production and assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- ☐ Compatible with certificates of other countries:
- BSI Certificate, Great Britain
- SQS Certificate, Switzerland
- Aib-Vincotte Certificate, Belgium

- ÖQS Certificate, Austria

Material

☐ Metal parts

Special alloys enable a low contact resistance and provide a gas-tight contact area

Clamping spring: stainless CrNi steel Current carrying bar: tin-plated copper

□ Insulation material

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housings: Polyamide 66/6 Tracking current resistance: CTI 600

Flammability class:

WKF 4... UL 94-V0 WKF 10... UL 94-V0 WKIF 16... UL 94-V2

(also see master catalog section **facts** & DATA)

You can use our **wieplan** software to configure your own terminal block assemblies (see page 10/11).

Note:

The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules.

Ferrules are not required for safe connection!

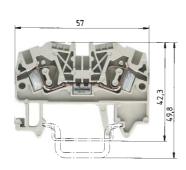
The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to, **For this purpose, Wieland** offers a large selection of appropriate accessories.

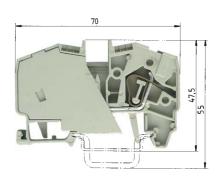
If the ground blocks of the WKF series are not used in block assemblies, but are mounted to the rail as single terminal blocks, end brackets have to be used.

A detailed description of technical data, the standards' requirements, and the application conditions can be found in part catalog section **facts** & DATA: "Technical information".

Feed-through blocks with spring connection for junction boxes, type WKF/WKIF

fasis BIT





EN 60 947-7-1/DIN VDE 0611 T1

UL ratings field/factory wiring

CSA ratings Width

Wire strip length

Approvals

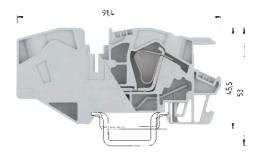
WKF 4/35

fine stranded solid V A 0.13 – 4 mm² 0.13 – 6 mm² 800 V/8 kV/3 32 No. 22-10 AWG 600 V 20/30 No. 22-10 AWG 600 V 35 6 mm

(a) \triangle ($\hat{\varsigma}$) SEV-EEX \triangle (\bigcirc (D) (N) (N) (F) (CT) (S) RINA LR LCIE BV $\P\lambda$ (G)

WKF 10/35

		TOP BA AT @					
		Туре	Part no.	Std. pack	Туре	Part no.	Std. pack
Feed-through block	Color: gray	WKF 4/35	56.704.0053.0	100	WKF 10/35	56.710.0053.0	50
Feed-through block	Color: blue	WKF 4/35 BLAU	56.704.0053.6	100	WKF 10/35 BLAU	56.710.0053.6	50
Neutral disconnect block	Color: blue						
Ground block Color:	green/yellow						
Accessories							
1. Mounting rail TS 35, DIN rail 7.5 mm hi	gh L = 2 m	35x27x7.5 EN 60715	98.300.0000.0	1	35x27x7.5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 mm hi		35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0	 1
2. End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	
End clamp TS 35, without screw	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	
3. End plate	Color: gray	APF 2,5 – 4	07.312.2153.0	10	1,12,1,72		
	Color: blue	APF 2.5 – 4 BLAU	07.312.2153.6	10			
4. Partition plate	Color: gray	TWF 2,5 – 4	07.312.2253.0	10			
	Color: blue	TWF 2.5 – 4 BLAU	07.312.2253.6	10			
5. Cross connector insulated	2pole	IVB WKF 4 – 2	Z7.261.1227.0	10	IVB WKF 10 – 2	Z7.283.8227.0	10
(jumper bar)	3pole	IVB WKF 4 – 3	Z7.261.1327.0	10			
, ·	4pole	IVB WKF 4 – 4	Z7.261.1427.0	10			
	5pole	IVB WKF 4 – 5	Z7.261.1527.0	10			
	6pole	IVB WKF 4 – 6	Z7.261.1627.0	10			
	7pole	IVB WKF 4 – 7	Z7.261.1727.0	20			
	8pole	IVB WKF 4 – 8	Z7.261.1827.0	20			
	9pole	IVB WKF 4 – 9	Z7.261.1927.0	20			
	10pole	IVB WKF 4 – 10	Z7.261.2027.0	20			
6. Wire entry guide 0.	13 – 0.2 mm ²	LEL 4/1 WEISS	05.561.8553.0	100			
0.	25 – 0.5 mm²	LEL 4/2 GRAU	05.561.8653.0	100			
0.	75 – 1.0 mm²	LEL 4/3 SCHWARZ	05.561.8753.0	100			
7. Cover with warning symbol 4 blocks		ADF 4/4 GELB	04.343.6153.8	10	ADF 10/4 GELB	04.343.6453.8	10
8. Busbar, E-Cu 10x3 mm, tin-plated	L = 1 m						
9. Connector clamp for busbar	8.5 mm wide						
	17 mm wide						
10. Busbar support, as end clamp	8 mm wide						
11. Screwdriver, uninsulated		DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 0,8x4	06.502.4100.0	5
Marking accessories see page 48/49 and p	page 90/91						



WKIF 16/35

fine stranded	stranded	V	Α
4 – 16 mm ²	4 – 16 mm ²	800 V/8 kV/3	76
No. 12 – 4 AW	600 V	78	
12 mm		16	mm

уре	Part no. Std	. pack
VKIF 16/35	56.716.1153.0	50
WKIF 16/35 BLAU	56.716.1153.6	50
35x27x7,5 EN 60715	98.300.0000.0	1
35x24x15 EN 60715	98.360.0000.0	1
9708/2 S35	Z5.522.8553.0	100
WEF 1/35	Z5.523.9353.0	100
VB WKIF 16 – 2	Z7.284.6227.0	10
DIN 5264 B 1 x 5	06.502.4200.0	5

Neutral disconnect blocks with spring connection for junction boxes, type WKF/WKIF

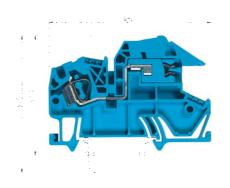
fasis BIT

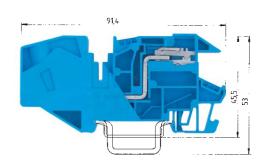
EN 60 947-7-1; 1991/DIN VDE 0611 T1/08.92

UL ratings

Width

CSA ratings





WKF 4 NT/35

fine stranded solid 0.13 – 4 mm² 0.13 – 6 mm² 400 V/6 kV/3 30 600 V 20 No. 22-10 AWG 600 V 6 mm 11 mm

Wire strip length

WKIF 16 NT/35

fine stranded stranded 4 – 16 mm² 4 – 16 mm² 400 V/6 kV/3 68

12 mm 16 mm

Approvals	vire strip length	o mm ₹1 (f		11 mm	12 mm		16 mm
		Туре	Part no.	Std. pack	Туре	Part no. Std. pack	
Feed-through block	Color: gray						
Feed-through block	Color: blue						
Neutral disconnect block	Color: blue	WKF 4 NT/35	56.704.8153.0	100	WKIF 16 NT/35	56.716.8153.0 50	
Ground block	Color: green/yellow						
Accessories							
1. Mounting rail TS 35, DIN rail 7.5 r	mm high L = 2 m	35x27x7,5 EN 60715	98.300.0000.0	1	35x27x7,5 EN 60715	98.300.0000.0 1	
Mounting rail TS 35, DIN rail 15	mm high L = 2 m	35x24x15 EN 60715	98.360.0000.0	1	35x24x15 EN 60715	98.360.0000.0 1	
2. End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0 100	
End clamp TS 35, without screw	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0 100	
3. End plate	Color: gray						
	Color: blue	APF 4 NT	07.312.5653.0	10			
	Color: green						
4. Partition plate							
5. Cross connector insulated	2pole	IVB WKF 4 – 2	Z7.261.1227.0	10	IVB WKIF 16 – 2	Z7.284.6227.0 10	
(jumper bar)	3pole	IVB WKF 4 – 3	Z7.261.1327.0	10			
	4pole	IVB WKF 4 – 4	Z7.261.1427.0	10			
	5pole	IVB WKF 4 – 5	Z7.261.1527.0	10			
	6pole	IVB WKF 4 – 6	Z7.261.1627.0	10			
	7pole	IVB WKF 4 – 7	Z7.261.1727.0	20			
	8pole	IVB WKF 4 – 8	Z7.261.1827.0	20			
	9pole	IVB WKF 4 – 9	Z7.261.1927.0	20			
	10pole	IVB WKF 4 – 10	Z7.261.2027.0	20			
6. Wire entry guide	0.13 – 0.2 mm ²	LEL 4/1 WEISS	05.561.8553.0	100			
	0.25 – 0.5 mm ²	LEL 4/2 GRAU	05.561.8653.0	100			
	0.75 – 1.0 mm ²	LEL 4/3 SCHWARZ	05.561.8753.0	100			
7. Cover with warning symbols over	er 4 blocks	ADF 4/4 GELB	04.343.6153.8	10			
8. Busbar, E-Cu 10x3 mm, tin-plate	ed L = 1 m	9813 M SN	98.290.1000.0	1	9813 M SN	98.290.1000.0 1	
9. Connector clamp for busbar	8.5 mm wide	WAK 16/2 BLAU	30.494.3021.6	100	WAK 16/2 BLAU	30.494.3021.6 100	
	17 mm wide	WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0 50	
10. Busbar support as, end clamp	8 mm wide	WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0 10	
11. Screwdriver, uninsulated		DIN 5264 B 0,6x3,5	06.502.4000.0	5	DIN 5264 B 1 x 5	06.502.4200.0 5	
Marking accessories see page 48/49	and page 90/91						
1 1 3 1 1							

Ground blocks with spring connection for junction boxes, type WKF/WKIF

field/factory wiring

Wire strip length

fasis BIT

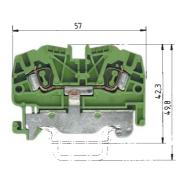
EN 60 947-7-2/DIN VDE 0611 T3

UL ratings

Approvals

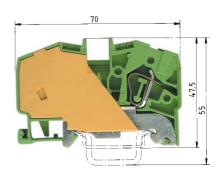
Width

CSA ratings



Ratings for adjacent feed-through blocks of same series and size Current carrying capabilities of the mounting rails see catalog section *facts* & DATA

WKF 4 SL/35

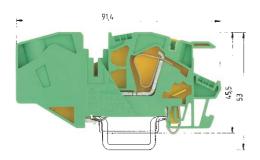


Ratings for adjacent feed-through blocks of same series and size Current carrying capabilities of the mounting rails see catalog section *facts* & DATA

WKF 10 SL/35

fine stranded solid V A 2.5 – 10 mm² 2.5 – 10 mm² 800 V/8 kV/3 57 No. 14-6 AWG 600 V 600 V 10 mm 13 mm

		TCIE BA 27 (%)					
		Туре	Part no.	Std. pack	Туре	Part no. St	d. pack
Feed-through block	Color: gray						
Feed-through block	Color: blue						
Neutral disconnect block	Color: blue						
Ground block Color	: green/yellow	WKF 4 SL/35	56.704.9053.0	100	WKF 10 SL/35	56.710.9053.0	50
Accessories							
1. Mounting rail TS 35, DIN rail 7.5mm hi	Ü	35 x 27 x 7,5 EN 60715	98.300.0000.0		35 x 27 x 7,5 EN 60715	98.300.0000.0	
Mounting rail TS 35, DIN rail 15mm hig		35 x 24 x 15 EN 60715	98.360.0000.0		35 x 24 x 15 EN 60715	98.360.0000.0	
2. End clamp for TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0		9708/2 S35	Z5.522.8553.0	
End clamp for TS 35, without screws	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3.End plate	Color: gray						
	Color: blue						
	Color: green	APF 2,5-4 GRÜN	07.312.2153.7	7 10			
4. Partition plate	Color: gray						
	Color: blue						
5.Cross connector insulated	2 pole						
(jumper bar)	3pole						
	4pole						
	5pole						
	6pole						
	7pole						
	8pole						
	9pole						
	10pole						
6. Wire entry guide 0	.13 – 0.2 mm ²	LEL 4/1 WEISS	05.561.8553.0	100			
0	.25 – 0.5 mm²	LEL 4/2 GRAU	05.561.8653.0	100			
0	.75 – 1.0 mm²	LEL 4/3 SCHWARZ	05.561.8753.0	100			
7. Cover with warning symbol over 4 blo	cks	ADF 4/4 GELB	04.343.6153.8	3 10	ADF 10/4 GELB	04.343.6453.8	10
8. Busbar, E-Cu 10 x 3 mm, tin-plated	L = 1 m						
9. Connector clamp for busbar	8.5 mm wide						
		17 mm wide					
10. Busbar support, as end clamp	8 mm wide						
11. Screwdriver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,8 x 4	06.502.4100.0	5
Marking accessories see page 48/49 and	page 90/91						

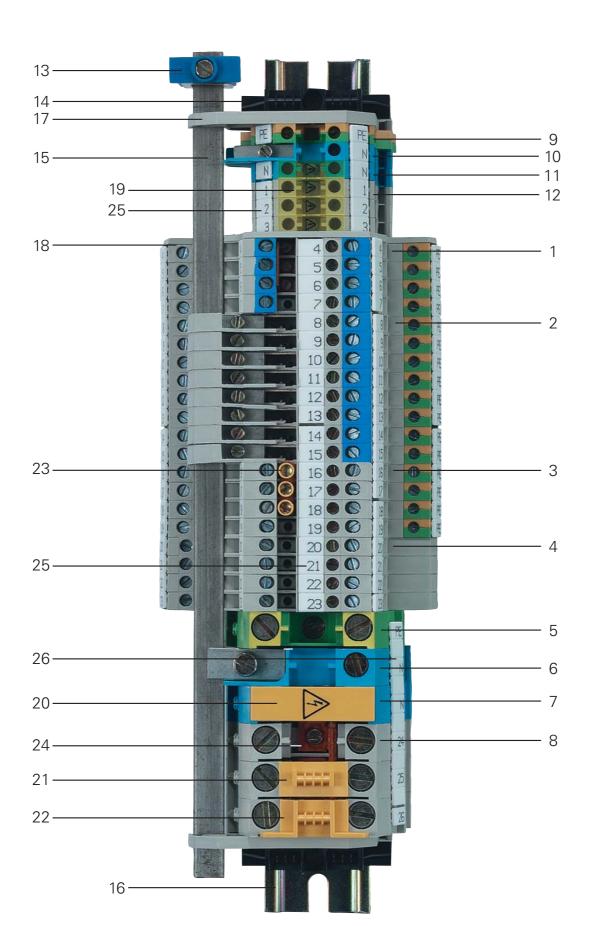


WKIF 16 SL/35

уре	Part no.	Std. pack
WKIF 16 SL/35	56.716.9153	.0 50
35 x 27 x 7,5 EN 60715	98.300.0000	.0 1
35 x 24 x 15 EN 60715	98.360.0000	.0 1
9708/2 S35	Z5.522.8553	.0 100
WEF 1/35***)	Z5.523.9353	.0 100

Terminal blocks for electrical installations with screw connection, type *WKI*

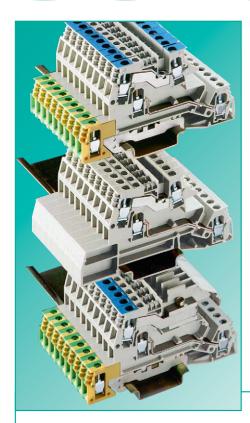
selos BIT



ltem	Description	Туре	Part number
1	Installation blocks	WKI 4 N-D-SL	56.404.9455.0
2	Installation blocks	WKI 4 NT-D-SL	56.404.9555.0
3	Installation blocks	WKI 4 D-D-SL	56.404.9855.0
4	Installation block	WKI 4 D-D	56.404.9755.0
5	Ground block	WKI 16 SL/35	56.516.9255.0
6	Neutral disconnect block	WKI 16 ETK/U	57.516.8255.0
7	Feed through block	WKI 16 /U BLAU	57.516.1155.6
8	Feed through block	WKI 16 /U	57.516.1155.0
9	Ground block	WK 4 SL/U	57.504.9055.0
10	Neutral disconnect block	WKN 4 ETK/U	57.504.8155.0
11	Feed through block	WK 4 /U BLAU	57.504.0055.6
12	Feed through block	WK 4 /U	57.504.0055.0
13	Connector clamp	WAK 16/2 BLAU	30.494.3021.6
14	End clamp	9708/2 S35	Z5.522.8553.0
15	Busbar 10 x 3	9813 M Sn	98.290.1000.0
16	Mounting rail	35×27×7.5	98.300.0000.0
17	Busbar support	WKI SH/U	01.108.3255.0
18	End plate	API 4/2	07.311.6555.0
19	Cover with warning symbol	AD 4/4 GELB	04.343.4856.8
20	Cover with warning symbol	ADI 16/1 GELB	04.325.8553.8
21	Cover with marking facility	AD VB 16 GELB	04.326.2453.8
22	Partition plate with marking facility	TS 16 GELB	07.311.2453.8
23	Cross connector, insulated (12pole)	IVB WKI 4-12	Z7.271.5227.0
24	Cross connector, uninsulated	VB WKI 16-3	Z7.289.0327.0
25	Marking strip	9705 A/6/10 B	04.842.6053.0
26	Marking strip	9705 A/6/10/5 B	04.842.6553.0

Terminal blocks for electrical installations with screw connection, type *WKI*

selos BIT

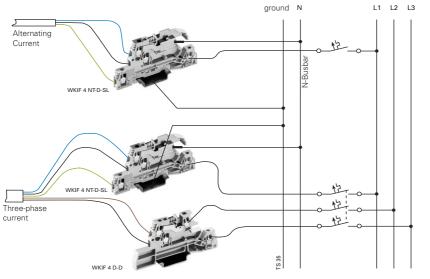


WKI provides ...

- Clear circuit identification
- ☐ Small dimensions in three-tier design
- □ Neutral conductor disconnect function
- ☐ All wire entry points in the same plane
- ☐ Mounting for TS 35 DIN rail
- Circuit protection via fuse
- ☐ Ground connection directly to the DIN rail

Application advantages

- ☐ Multiple circuits with color coding in one terminal block
- ☐ Best suited for small junction boxes with cover according to DIN 43871
- ☐ Fast and safe disconnection of the neutral conductor with WKI 4 NT-D-SL
- □ Easy wiring
- ☐ Sliding disconnect shows the state of the neutral circuit (open or closed)



- □ **selos** BIT is designed to meet the wiring and installation requirements of distribution systems in commercial and institutional buildings (such as hospitals, schools, shopping malls, theaters, office buildings, institutes, airports) according to IEC 60364 and standard control requirements
- WKI 4 NT-D-SL enables the required circuit isolation test without disconnecting the neutral conductor
- ☐ WKI provides installation blocks in 5 versions:

WKI 4 DU

WKI 4 D-D

WKI 4 D-D-SL WKI 4 N-D-SL

WKI 4 NT-D-SL

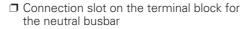
3 special variants:

WKI 4 NT-D-SL-GL

WKI 4 NTN-D-SL

WKI 4 TKG-D-SL

Other applications include control wiring. For example WKI 4 TKG-D-SL signal in one terminal with fusing of the (+) circuit

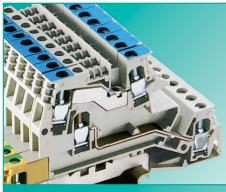


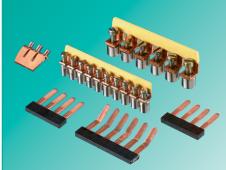
☐ Captive hardware and vibration design

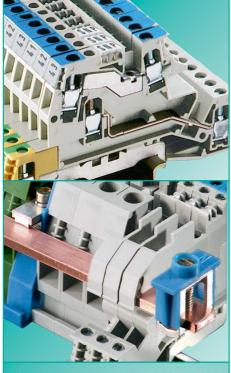
☐ The terminal blocks for electrical installations of the WKI series in the NT version can be combined with ...

the terminal blocks of the WKIF series (spring connection technology)

the neutral disconnect blocks (ETK) of the WKN series (screw connection technology)









Jumpering with cross connectors

- Jumpering with insulated and uninsulated cross connectors (jumperbars)
- ☐ Cross connectors do not take up clamping space
- Uninsulated cross connectors can be cut to length
- When using cross connectors, end plates or partitions are required to maintain max. voltage rating
- ☐ Cross connectors come pre-assembled

Jumpering with jumper combs

- Jumpering with insulated jumper combs
- Jumper comb and conductor are inserted in the clamping body and clamped

Marking facilities

- Marking facility for each termination point
- ☐ Tear-off marking strips for 3-digit marking facilities per block
- ☐ Single marking tags in 5 mm spacing
- ☐ Marking strips (10 individual marking tags) to snap on to 10 terminal blocks
- Custom marking upon request

Connector clamps

- ☐ Connector clamps for busbar 10 x 3 mm (E-Cu, tin-plated)
- □ WAK 16/2... 0.75 16 mm²
- □ WAK 35/2... 16-35 mm²
- Clear identification of the circuit task when the erternal neutral conductor is connected to the busbar

DQS certificates for all company divisions

- Quality standard as per DIN ISO 9001 in Development, Production and Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
- BSI Certificate, Great Britain
- SQS Certificate, Switzerland
- Aib-Vincotte Certificate, Belgium
- ÖQS Certificate, Austria

Material

□ Metal parts

Special alloys enable a low contact resistance and provide a gas-tight contact area:

Clamping body/clamping screws: Steel, zinc-plated and dichromated

Current carrying bar: tin-plated copper

□ Insulation material

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housings: Polyamide 66/6 Tracking current resistance: CTI 600

Flammability class: UL 94-V0

(also see master catalog section **facts** & DATA: Technical information)

You can use our **wieplan** software to configure your own terminal block assemblies (see page 10/11).

Note:

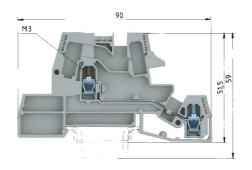
The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules.

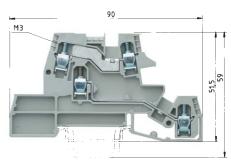
The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, **Wieland** offers a large selection of appropriate accessories.

A detailed description of technical data, the standards' requirements, and the application conditions can be found in part catalog section *facts* & DATA: "Technical information".

Terminal blocks for electrical installations with screw connection, type WKI 4

selos BIT





Grounding:

EN 60947-7-2

UL ratings

CSA ratings

*) For the current carrying capability of the mounting rail see catalog **facts** & DATA

EN 60947-7-1/DIN VDE 0611 T1

- DU line feed through block: lower contact equipped only
- D line feed through blockD line feed through block

WKI 4 DU

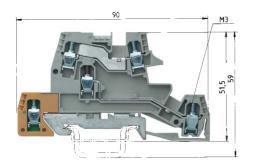
fine stranded solid $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ 400 V/6 kV/3 26No. 22-10 AWG 300 V 24 No. 22-10 AWG 300 V 25 6 mm 7 mm

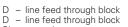
WKI 4 D-D

fine stranded solid $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ 400 V/6 kV/326 No. 22-10 AWG 300 V 24 No. 22-10 AWG 300 V 25 6 mm 7 mm

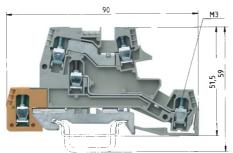
Vidth	Wire strip length	6 mm	300 V	7 mm	6 mm	3	00 V	7 mm
pprovals	2 - 1 P	€ 91 ® ⊕ B			\$ 91 @ 🕀 🖲			
		Туре	Part no. Std. pack		Туре		. pack	
Installation block	Color: gray				WKI 4 D-D	56.404.9755.0	50	
Lower tier of installation block e	quipped only	WKI 4 DU	56.404.9655.0 50					
Installation block with indicator	lamp (110 – 200 V)							
Accessories								
1. Mounting rail TS 35, DIN rail 7.5	mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0 1		35 x 27 x 7,5 EN 60715	98.300.0000.0	1	
Mounting rail TS 35, DIN rail 15	mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0 1		35 x 24 x 15 EN 60715	98.360.0000.0	1	
2. End clamp for TS 35, with screw	w 8 mm wide	9708/2 S35	Z5.522.8553.0 100		9708/2 S35	Z5.522.8553.0	100	
End clamp, screwless	8 mm thick	WEF 1/35	Z5.523.9353.0 100		WEF 1/35	Z5.523.9353.0	100	
3. End plate	2 mm thick	API 4/2	07.311.6555.0 10		API 4/2	07.311.6555.0	10	
4. Partition plate		TWI 4	07.311.6955.0 10		TWI 4	07.311.6955.0	10	
5. Cross connector with screws, E	E-Cu							
	uninsulated 2pole	9703/6-2	Z7.211.0227.0 50		9703/6-2	Z7.211.0227.0	50	
	to 6pole	9703/6-6	Z7.211.0627.0 50		9703/6-6	Z7.211.0627.0	50	
	insulated 12pole	IVB WKI 4-12	Z7.271.5227.0 10		IVB WKI 4-12	Z7.271.5227.0	10	
Field divisible strip – uninsulated	d, 70pole	9703/6 M-70	Z7.211.0027.0 10		9703/6 M-70	Z7.211.0027.0	10	
6. Busbar, E-Cu 10 x 3 mm, I _N = 140	0 A L = 1 m	9813 M	98.290.0000.0 1		9813 M	98.290.0000.0	1	
Busbar, tin-plated, I _N = 140 A	L = 1 m	9813 M Sn	98.290.1000.0 1		9813 M Sn	98.290.1000.0	1	
7. Busbar support	4 mm wide	WKI/SH/U	01.108.3255.0 10		WKI/SH/U	01.108.3255.0	10	
Busbar support	8 mm wide	WKIF SH/E/35	Z1.108.8453.0 10		WKIF SH/E/35	Z1.108.8453.0	10	
8. Connector clamp for busbar								
16 mm ²	8.5 mm wide	WAK 16/2 BLAU	30.494.3021.6 100		WAK 16/2 BLAU	30.494.3021.6	100	
35 mm ²	17 mm wide	WAK 35/2	30.494.4121.0 50		WAK 35/2	30.494.4121.0	50	
9. Screwdriver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0 5		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	

Marking accessories see page 48/49 and page 90/91



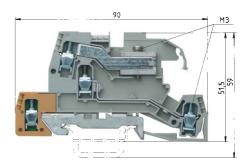


SL - ground



N - neutral feed-through block D - line feed through block

SL - ground



N – disconnect block D – line feed through block SL – ground

GL – indicator lamp

WKI 4 D-D-SL

fine stranded solid $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ $400 \text{ V/6 kV/3 } 26^*$ No. 22-10 AWG 300 V 24 No. 22-10 AWG 300 V 25 6 mm 7 mm

€ **%** * 66 ⊕ B

*CL I, ZN1, AExe II

WKI 4 N-D-SL

fine stranded solid Α $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ 400 V/6 kV/3 $26^{*)}$ No. 22-10 AWG 300 V 24 No. 22-10 AWG 300 V 25 6 mm 7 mm

€ **%** € B

WKI 4 NT-D-SL (-GL)

fine stranded solid $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ 400 V/6 kV/3 26*) No. 22-10 AWG 300 V 24 No. 22-10 AWG 300 V 25 6 mm 7 mm € **%** ⊕ B

(S) MI (B) (A)		(S) 1977 (A) 🚓 📤		(2) AT (A. 👄 👝	
Туре	Part no. Std. pack	Туре	Part no. Std. pack	Туре	Part no. Std. pack
WKI 4 D-D-SL	56.404.9855.0 50	WKI 4 N-D-SL	56.404.9455.0 50	WKI 4 NT-D-SL	56.404.9555.0 50
				WKI 4 NT-D-SL-GL	56.404.9255.0 50
35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1
9708/2 S35	Z5.522.8553.0 100	9708/2 S35	Z5.522.8553.0 100	9708/2 S35	Z5.522.8553.0 100
WEF 1/35	Z5.523.9353.0 100	WEF 1/35	Z5.523.9353.0 100	WEF 1/35	Z5.523.9353.0 100
API 4/2	07.311.6555.0 10	API 4/2	07.311.6555.0 10	API 4/2	07.311.6555.0 10
TWI 4	07.311.6955.0 10	TWI 4	07.311.6955.0 10		
9703/6-2	Z7.211.0227.0 50	9703/6-2	Z7.211.0227.0 50	9703/6-2	Z7.211.0227.0 50
9703/6-6	Z7.211.0627.0 50	9703/6-6	Z7.211.0627.0 50	9703/6-6	Z7.211.0627.0 50
IVB WKI 4-12	Z7.271.5227.0 10	IVB WKI 4-12	Z7.271.5227.0 10	IVB WKI 4-12	Z7.271.5227.0 10
9703/6 M-70	Z7.211.0027.0 10	9703/6 M-70	Z7.211.0027.0 10	9703/6 M-70	Z7.211.0027.0 10
9813 M	98.290.0000.0 1	9813 M	98.290.0000.0 1	9813 M	98.290.0000.0 1
9813 M Sn	98.290.1000.0 1	9813 M Sn	98.290.1000.0 1	9813 M Sn	98.290.1000.0 1
WKI/SH/U	01.108.3255.0 10	WKI/SH/U	01.108.3255.0 10	WKI/SH/U	01.108.3255.0 10
WKIF SH/E/35	Z1.108.8453.0 10	WKIF SH/E/35	Z1.108.8453.0 10	WKIF SH/E/35	Z1.108.8453.0 10
VVICII OTI/ E/ 33	21.100.0400.0	VVIXII OTI/E/33	21.100.0400.0	VVIII OHJEJOO	21.100.0430.0
WAK 16/2 BLAU	30.494.3021.6 100	WAK 16/2 BLAU	30.494.3021.6 100	WAK 16/2 BLAU	30.494.3021.6 100
WAK 16/2 BLAG WAK 35/2	30.494.4121.0 50	WAK 35/2	30.494.4121.0 50	WAK 35/2	30.494.4121.0 50
DIN 5264 B 0,6 x 3,5	06.502.4000.0 5	DIN 5264 B 0,6 x 3,5	06.502.4000.0 5	DIN 5264 B 0,6 x 3,5	06.502.4000.0 5
DIIN 3204 D 0,0 X 3,3	00.502.4000.0	DIN 3204 B 0,0 X 3,3	00.502.4000.0	DIN 3204 B 0,0 X 3,3	00.302.4000.0

Terminal blocks for electrical installations with screw connection, type WKI 4

selos BIT

Fuse application: Nominal current accord to VDE 0820 T2/EN 60 127-2 when using 1.6 $\rm W$

 $-\ 6.3$ A for single blocks $-\ 4$ A for blocks mounted directly adjacent to each other

Voltage and current are determined by the LED and the fuse used in the end application

Ground application:

For the current carrying capability of the mounting rail see catalog **facts** & DATA

Busbar application:

UL ratings

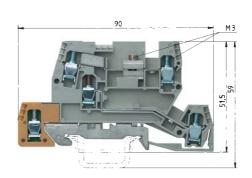
Width

CSA ratings

Position these terminals at the beginning or end of the assembly when incorporating the busbar system

Wire strip length

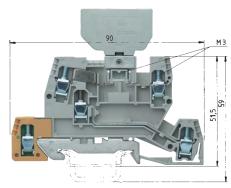
EN 60 947-7-1, EN 60 947-7-2



NTN - disconnect block

- line feed through block:

- ground



TKG - fuse plug for 5 x 20 fuse

D – line feed through block: SL – ground block

WKI 4 TKG-D-SL

WKI 4 NTN-D-SL

fine stranded solid $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ 400 V/6 kV/3 26*) No. 22-10 AWG 300 V 24 No. 22-10 AWG 300 V 25 6 mm 7 mm

fine stranded solid $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ 400 V/6 kV/3 26*) No. 22-10 AWG 300 V 12 No. 22-10 AWG 300 V 25 6 mm 7 mm

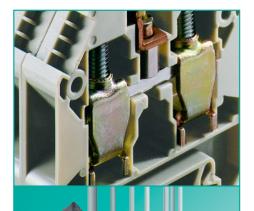
Approvals	Time danp longar	€ 71. © ⊕ B		,	€ 91. © ⊕ B			
		Type	Part no. Std. p	ack	Туре	Part no. Std	. pack	
Installation block	Color: gray	WKI 4 NTN-D-SL	56.404.9155.0	50	WKI 4 TKG-D-SL	56.404.8855.0	50	
Fuse holder for 5 x 20 fuse	Color: gray				Si ST	Z1.299.4055.0	10	
Fuse holder with indicator (24 V)	Color: gray				Si ST LED	Z1.299.4155.0	10	
Fuse holder with indicator (110 – 2	220 V) Color: gray				Si ST GL	Z1.299.4255.0	10	
(G fuse-links DIN 41571, 250 V/6.3 A, 5	x 20 mm)							
Accessories								
1. Mounting rail TS 35, DIN rail 7.5	5 mm high $L = 2 m$	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	
Mounting rail TS 35, DIN rail 15	mm high $L = 2 \text{ m}$	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	
2. End clamp for TS 35, with screw	w 8 mm wide	9708/2 S35	Z5.522.8553.0 1	00	9708/2 S35	Z5.522.8553.0	100	
End clamp, screwless	8 mm thick	WEF 1/35	Z5.523.9353.0 1	00	WEF 1/35	Z5.523.9353.0	100	
3. End plate	2 mm thick	API 4/3	07.311.6855.0	10	API 4/3	07.311.6855.0	10	
4. Partition plate								
5. Cross connector with screws, (jumper bar)							
	uninsulated 2pole	9703/6-2	Z7.211.0227.0	50	9703/6-2	Z7.211.0227.0	50	
	to 6pole	9703/6-6	Z7.211.0627.0	50	9703/6-6	Z7.211.0627.0	50	
	insulated 12pole	IVB WKI 4-12	Z7.271.5227.0	10	IVB WKI 4-12	Z7.271.5227.0	10	
Field-divisib	le strip – 70pole	9703/6 M-70	Z7.211.0027.0	10	9703/6 M-70	Z7.211.0027.0	10	
6. Busbar, E-Cu 10 x 3 mm, I _N = 140	0 A L = 1 m							
Busbar, tin-plated, I _N = 140 A	L = 1 m							
7. Busbar support	4 mm wide							
Busbar support	8 mm wide							
8. Connector clamp for busbar								
16 mm ²	8.5 mm wide							
35 mm ²	17 mm wide							
9. Screwdriver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	

Marking accessories see page 48/49 and page 90/91



Terminal blocks with screw connection for junction boxes, type *WKI*

selos BIT



WKI provides ...

Screw connection technology in rising cage clamp system with onepiece threaded collar

- □ Convenient handling
- □ Neutral conductor disconnect

Application advantages

→ High connection range Connection of solid, fine strand

Connection of solid, fine stranded and stranded conductors in the rated wire guage with and without ferrules

→ High clamping force, low contact resistance

High tightening torques (master catalog, section 8) create high clamping forces for large contact areas resulting in low contact resistance and a gas tight connection

→ Clamping body

Delivered in open position, ready to wire

→ Sliding disconnect

clearly shows state (open or closed) of the circuit and allows quick and easy disconnect from the busbar

- selos BIT is designed to meet the wiring and installation requirements of distribution systems in commercial and institutional buildings (such as hospitals, schools, shopping malls, theaters, office buildings, airports) according to IEC 60364
- ☐ The neutral disconnect blocks of the WKI series enable the required insulation test without disconnecting the neutral conductor

☐ Height

Due to their height, the terminal blocks of the **selos** BIT family are suited for small junction boxes with cover according to DIN 43871.

- Connection slot on the terminal block for the neutral busbar
- Ground directly to the DIN rail
- ☐ Captive hardware and vibration resistant design

☐ The WKI series provides

Feed-through blocks 4–35 mm²
10-2 AWG
Neutral disconnect blocks 4–16 mm²
10-4 AWG
Ground blocks 4–35 mm²
10-2 AWG
PEN assembly blocks 10–35 mm²
6-2 AWG

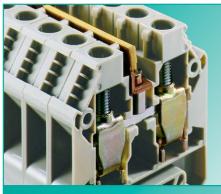
 Neutral disconnect blocks (ETK) of the WKI series can be combined with ...

the installation blocks of the WKI series (screw connection technology)

Installation blocks of the WKIF series (spring connection technology)

Neutral disconnect blocks (ETK) of the WKN series (screw connection technology)











Cross connection

- ☐ Jumpering with insulated or uninsulated cross connectors (jumper bars)
- ☐ Insulated cross connectors are touch-safe according to regulation VBG 4
- Cross connectors come preassembled
- ☐ Available in 2–12pole configurations or as a field-divisible strip up to 70 poles
- When used with an end plate or partition the cross connector is rated for the same voltage as the terminal block

Partition plates

- Provides electrical and visual separation for adjacent terminal block groups
- Pre and post assembly versions
- ☐ Can only be removed with a screwdriver
- Post assembly version offers marking tag facility and cover
- ☐ 4-digit marking strip for additional marking

Marking facilities

- Marking facility at every termination point
- ☐ Tear-off marking strips for 3-digit marking facilities per block
- ☐ Single marking tags in 5 mm spacing
- ☐ Marking strips (10 individual marking tags) to snap on to 10 terminal blocks
- Custom marking upon request

Cover

- Cover with warning symbol to snap on to blocks which remain live when the main switch is disconnected (VDE 0113)
- Cover for uninsulated cross connectors to prevent electrical shock
- ☐ Can only be removed with a screwdriver
- ☐ Extended covers available to prevent tampering with terminal block

DQS certificates for all company divisions

- Quality standard as per DIN ISO 9001 in development, production and assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
- BSI Certificate, Great Britain
- SQS Certificate, Switzerland
- Aib-Vincotte Certificate, Belgium
- ÖQS Certificate, Austria

Material

☐ Metal parts

Special alloys enable a low contact resistance and provide a gas-tight contact area

Clamping body/clamping screws: steel, zinc-plated and dichromated

Current carrying bar: tin-plated copper

□ Insulation material

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housings: Polyamide 66/6 Tracking current resistance: CTI 600

Flammability class: UL 94-V0

(also see master catalog section **facts** & DATA: Technical information)

You can use our **wieplan** software to configure your own terminal block assemblies (see page 10/11).

Note:

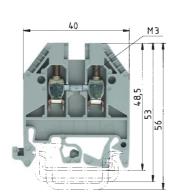
The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules.

The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, **Wieland** offers a large selection of appropriate accessories.

A detailed description of technical data, the standards' requirements, and the applica-tion conditions can be found in part catalog section **facts** & DATA: "Technical information".

Terminal blocks with screw connection for junction boxes, type *WKI*Selos BIT

Additional colors available on request: Contact Factory



WK 4/U

EN 60 947-7-1/DIN VDE 0611 T1
UL ratings field-/factory wiring
CSA ratings

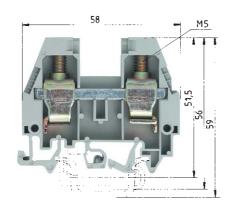
Width Wire strip length Approvals

WKI 10/U

fine stranded stranded V A
1-10 mm² 10-16 mm² 400 V/6 kV/3 57
No. 16-6 AWG 600 V 65/65
No. 16-6 AWG 600 V 70
10 mm 18 mm

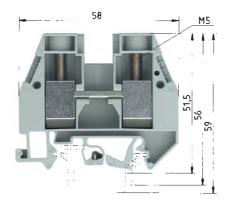
® 1R

		Type	Part no. Std	. pack	Type	Part no. Std.	pack
Feed through block	Color: gray	WK 4/U	57.504.0055.0	100	WKI 10/U	57.510.1155.0	50
Feed through block	Color: blue	WK 4/U BLAU	57.504.0055.6	100	WKI 10/U BLAU	57.510.1155.6	50
Accessories							
1. Mounting rail TS 35, DIN rail 7.5mm h	igh L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15mm hi	gh L = 2 m	35 x 27 x 15 EN 60715	98.360.0000.0	1	35 x 27 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp for TS 35, without screws	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate 1.5 mm thick	Color: gray	AP 2,5-4	07.311.0155.0	10			
1.5 mm thick	Color: blue	AP 2,5-4 BLAU	07.311.0155.6	10			
1.5 mm thick	Color: green						
End plate 2 mm thick	Color: gray				API 10-16	07.311.9455.0	10
2 mm thick	Color: blue				API 10-16 BLAU	07.311.9455.6	10
2 mm thick	Color: green						
4. Partition plate	Color: gray	TW 2,5-4	07.311.1155.0	10			
	Color: blue	TW 2,5-4 BLAU	07.311.1155.6	10			
5. Cross connector with screws (jumper	bar) 2pole	IVB WK 4-2	Z7.281.1227.0	10	IVB WKN 10-2	Z7.283.2227.0	10
insulated	3pole	IVB WK 4-3	Z7.281.1327.0	10	IVB WKN 10-3	Z7.283.2327.0	10
	4pole	IVB WK 4-4	Z7.281.1427.0	10	IVB WKN 10-4	Z7.283.2427.0	10
	5pole	IVB WK 4-5	Z7.281.1527.0	10	IVB WKN 10-5	Z7.283.2527.0	10
	6pole	IVB WK 4-6	Z7.281.1627.0	10	IVB WKN 10-6	Z7.283.2627.0	10
6. Partition plate with marking facility	Color: yellow	TS 4 GELB	07.311.2153.8	10	TS 10 GELB	07.311.2353.8	10
7. Cover with marking facility	Color: yellow	AD VB 4 GELB	04.326.2153.8	10	AD VB 10 GELB	04.342.1056.8	10
8. Cover with warning symbol over 4 blocks	Color: yellow	AD 4/4 GELB	04.343.4856.8	10			
Cover with warning symbol for 1 block	Color: yellow				ADI 10/1 GELB	04.325.8553.8	10
9. Busbar							
E-Cu 10 \times 3 mm, tin-plated, $I_N = 140$	L = 1 m						
E-Cu 10 x 3 mm, unplated, $I_N = 140$	A L = 1 m						
10. Connector clamp for busbar							
16 mm ²	8.5 mm wide						
35 mm ²	17 mm wide						
11. Busbar support	4 mm wide						
Busbar support	8 mm wide						
Marking accessories see page 48/49 and	page 90/91						



WKI 16/U

91 (P



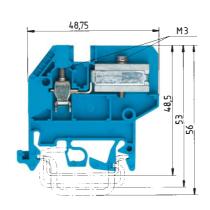
WKI 35/U

9) LP

Туре	Part no. Std	. pack	Туре	Part no. Std	. pack
WKI 16/U	57.516.1155.0	•	WKI 35/U	57.535.1155.0	20
WKI 16/U BLAU	57.516.1155.6	50	WKI 35/U BLAU	57.535.1155.6	20
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 27 x 15 EN 60715	98.360.0000.0	1	35 x 27 x 15 EN 60715	98.360.0000.0	1
9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
API 10-16	07.311.9455.0	10	API 35	07.311.8855.0	10
API 10-16 BLAU	07.311.9455.6	10	API 35 BLAU	07.311.8855.6	10
IVB WKI 16-2	Z7.284.9227.0		IVB WKI 35-2	Z7.285.4227.0	5
IVB WKI 16-3	Z7.284.9327.0		IVB WKI 35-3	Z7.285.4327.0	5
IVB WKI 16-4	Z7.284.9427.0		IVB WKI 35-4	Z7.285.4427.0	5
IVB WKI 16-5	Z7.284.9527.0		IVB WKI 35-5	Z7.285.4527.0	5
IVB WKI 16-6	Z7.284.9627.0		IVB WKI 35-6	Z7.285.4627.0	5
TS 16 GELB	07.311.2453.8	10	TS 35 GELB	07.311.8653.8	10
AD VB 16 GELB	04.326.2453.8	10			
ADI 16/1 GELB	04.325.8653.8	10	ADI 35/1 GELB	04.325.8753.8	

Neutral disconnect blocks with screw connection for junction boxes, type WKI

selos BIT



Current carrying capability: fine stranded: 4 mm² 25 A 30 A

Current carrying capability: fine stranded: 10 mm² 45 A 16 mm^2 stranded: 50 A

WKI 10 ETK/U

M6

WKN 4 ETK/U

fine stranded solid $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ $400 \text{ V/6 kV/3}^{**}$

UL pending No. 20-10 AWG

6 mm

9 mm \$ N € ⊕ B 6 6

fine stranded stranded 10 - 16 mm² 400 V/6 kV/3**) 1 – 10 mm²

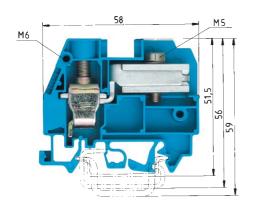
M5

No. 16-6 AWG 600 V 45 13 mm 10 mm **@** 🚱

EN 60 947-7-1/DIN VDE 0611 T1 UL ratings CSA ratings Width Wire strip length Approvals

00101010			37		6 (9)		
		Type	Part no. Std.	pack	Туре	Part no. Std.	pack
Neutral-disconnect block	Color: blue	WKN 4 ETK/U	57.504.8155.0	100	WKI 10 ETK/U	57.510.8255.0	50
Connector clamp for Cu busbar	Color: blue						
	Color: unplated						
Accessories							
1. Mounting rail TS 35, DIN rail 7.5 mr	n high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 mm	h high L = 2 m	35 x 27 x 15 EN 60715	98.360.0000.0	1	35 x 27 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp for TS 35, without screv	vs 8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate 1.5 mm thick	Color: gray						
1.5 mm thick	Color: blue	APN 4 ETK	07.311.1155.0	10	API 10-16 ETK/1	07.312.1955.0	10
1.5 mm thick	Color: green						
End plate 2 mm thick	Color: gray						
2 mm thick	Color: blue						
2 mm thick	Color: green						
4. Partition plate	Color: gray						
	Color: blue						
5. Cross connector with screws (jump	per bar) 2pole						
insulated	3pole						
	4pole						
	5pole						
	6pole						
6. Partition plate with marking facility	Color: yellow						
7. Cover with marking facility	Color: yellow						
Cover with warning symbol over 4 block	s Color: yellow						
Cover with warning symbol for 1 block	Color: yellow						
9. Busbar							
E-Cu 10 x 3 mm, tin-plated, $I_N = 14$	10 A L = 1 m	9813 M	98.290.0000.0	1	9813 M	98.290.0000.0	1
E-Cu 10 x 3 mm, unplated, I _N = 14	0 A L = 1 m	9813 M SN	98.290.1000.0	1	9813 M SN	98.290.1000.0	1
10. Connector clamp for busbar							
16 mm ²	8.5 mm wide	WAK 16/2 BLAU	30.494.3021.0		WAK 16/2 BLAU	30.494.3021.0	
35 mm ²	17 mm wide	WAK 35/2	30.494.4121.0	50	WAK 35/2	30.494.4121.0	50
11. Busbar support	4 mm wide	WKI SH/U	01.108.3255.0	10	WKI SH/U	01.108.3255.0	10
Busbar support	8 mm wide	WKIF SH/E/35	Z1.108.8453.0	10	WKIF SH/E/35	Z1.108.8453.0	10
Marking accessories see page 48/49 a							

Connector clamp for Cu busbar (10 x 3 mm), type WAK







Current carrying capability: fine stranded: 16 mm² stranded: 25 mm²

EN 60 998-2-1 CCA/CH

EN 60 998-2-1 CCA/CH

WKI 16 ETK/U

fine stranded stranded $1-16 \text{ mm}^2$ $10-25 \text{ mm}^2$ 400 V/6 kV/3**) **WAK 16/2**

fine stranded stranded 1.5 – 16 mm² 10 – 16 mm² WAK 35/2

Α

76

fine stranded stranded Α 16 – 35 mm² 16 – 35 mm² 125

14 mm

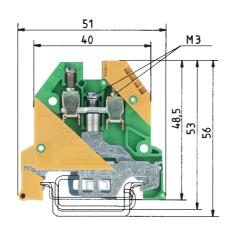
No. 14-4 AWG 600 V 65 12 mm 15 mm

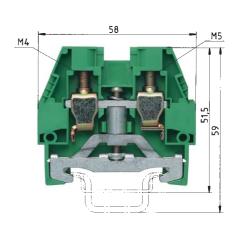
8.4 mm 16 mm 17 mm (£) (A) (B) (F)

12 111111		15 11111	8.4 111111		10 11111	17 [[][[]		14 11111
6 6			SEV FI B			S SEV FI		
Туре	Part no. Std	d. pack	Туре	Part no.	Std. pack	Туре	Part no. Sto	d. pack
WKI 16 ETK/U	57.516.8255.0	50						
			WAK 16/2 BLAU	30.494.3021.	6 100	WAK 35/2 BLAU	30.494.4121.6	
						WAK 35/2	30.494.4121.0	50
35 x 27 x 7,5 EN 60715	98.300.0000.0	1						
35 x 27 x 15 EN 60715	98.360.0000.0	1						
9708/2 S35	Z5.522.8553.0	100						
API 10-16 ETK/1	07.312.1955.0	10						
9813 M	98.290.0000.0	1	9813 M	98.290.0000.	 O 1	9813 M	98.290.0000.0	1
9813 M SN	98.290.1000.0	1	9813 M SN	98.290.1000.		9813 M SN	98.290.1000.0	1
JOIN IN ON	30.230.1000.0	1	3013 101310	50.230.1000.	<i>-</i> 1	JULU IVI OIN	30.230.1000.0	1
WAK 16/2 BLAU	30.494.3021.0							
WAK 35/2	30.494.4121.0	50						
14/1/1 011/11	01.108.3255.0	10	WKI SH/U	01.108.3255.0	0 10	WKI SH/U	01.108.3255.0	10
WKI SH/U	011100.0200.0							

Ground blocks with screw connection for junction boxes, type *WKI SL*

selos BIT





*) Ratings of adjacent feed-through block same series and size

EN 60 947-7-2/DIN VDE 0611 T3 UL ratings CSA ratings

Width Wire strip length Approvals

enclosed design

WK 4 SL/U

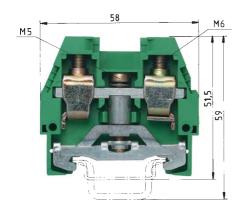
fine stranded solid V A
0.5 – 4 mm² 0.5 – 6 mm² 800 V/8 kV/3*)
No. 22-10 AWG
No. 22-10 AWG
6 mm 9 mm

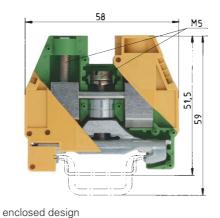
(a) EPM (2) SEV-EEX (N) (N) (P) (ESS (S) IR 72) (D) BKI-EEX (A) (B) (B)

WKI 10/35

fine stranded solid/stranded V A $1-10 \text{ mm}^2$ $1.5-16 \text{ mm}^2$ 800 V/8 kV/3*^* No. 16-6 AWG 600 V No. 16-6 AWG 10 mm 18 mm

		BKI-EEX 😂 🚱 🚱 🖪	7000mm #0 - 16	72 6 8	
		Туре	Part no. Std. pack	Туре	Part no. Std. pack
Ground block Color: green/	/yellow	WK 4 SL/U	57.504.9055.0 100	WKI 10 SL/35	56.510.9255.0 50
Accessories					
1. Mounting rail TS 35, DIN rail 7.5 mm high L	. = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
Mounting rail TS 35, DIN rail 15 mm high L		35 x 27 x 15 EN 60715	98.360.0000.0 1	35 x 27 x 15 EN 60715	98.360.0000.0 1
	n wide	9708/2 S35	Z5.522.8553.0 100	9708/2 S35	Z5.522.8553.0 100
	n wide	WEF 1/35	Z5.523.9353.0 100	WEF 1/35	Z5.523.9353.0 100
, ,	or: gray	,		,	
·	or: blue				
1.5 mm thick Color:	: green			API 10-16 SL	07.311.9555.0 10
	or: gray				
· · · · · · · · · · · · · · · · · · ·	or: blue				
2 mm thick Color:	: green				
	or: gray				
· · · · · · · · · · · · · · · · · · ·	or: blue				
5. Cross connector with screws (jumper bar)	2pole				
insulated	3pole				
	4pole				
	5pole				
	6pole				
6. Partition plate with marking facility Color:	yellow				
7. Cover with marking facility Color:	yellow	AD VB4 GELB	04.326.2153.8 10	AD VB 10 GELB	04.326.2353.8 10
8. Cover with warning symbol over 4 blocks Color:	yellow	AD 4/4 GELB	04.343.5856.8		
Cover with warning symbol for 1 block Color:	yellow			AD 10/1 GELB	04.325.8553.8 10
9. Busbar					
E-Cu 10 x 3 mm, tin-plated, $I_N = 140 \text{ A}$ L	_ = 1 m				
E-Cu 10 x 3 mm, unplated, I _N = 140 A L	_ = 1 m				
10. Connector clamp for busbar					
16 mm ² 8.5 mr	n wide				
35 mm ² 17 mr	n wide				
11.Busbar support 4 mr	n wide				
Busbar support 8 mm	m wide				
Marking accessories see page 48/49 and page 9	00/91				





WKI 16 SL/35

fine stranded solid/stranded 1 – 16 mm² 1.5 – 25 mm² 400 V/6 kV/3*) No. 12-4 AWG 600 V No. 14-4 AWG 12 mm 16 mm

91 @

WKI 35 SL/35

fine stranded stranded 16 – 35 mm² 16 – 50 mm² 400 V/6 kV/3*) UL pending No. 10-2 AWG 16 mm 13 mm

9) 10

уре	Part no. Std	. pack	Туре	Part no. Std	. pack
WKI 16 SL/35	56.516.9255.0	50	WKI 35 SL/35	56.535.9255.0	20
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 27 x 15 EN 60715	98.360.0000.0	1	35 x 27 x 15 EN 60715	98.360.0000.0	 1
9708/2 S35	Z5.522.8553.0		9708/2 \$35	Z5.522.8553.0	
0,00,2 000	20.022.0000.0		0700/2000	20.022.0000.0	
API 10-16 SL	07.311.9555.0	10			
AD VB 16 GELB	04.326.2453.8	10	AD VB 10 GELB	04.326.2353.8	10
AD 16/1 GELB	04.325.8653.8	10	AD 35/1 GELB	04.325.8753.8	

PEN assembly block with screw connection for junction boxes, type *WKI...*

Wire strip length

selos BIT

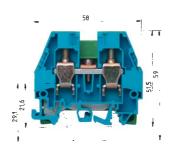
EN 60 947-7-1, EN 60 947-7-2

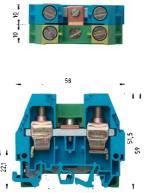
UL ratings

Width

CSA ratings







WKI 10 PEN/35

WKI 16 PEN/35

 fine stranded
 solid/stranded
 V
 A

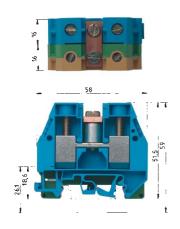
 1 – 16 mm²
 1.5 – 25 mm²
 400 V/6 kV/3
 76

 No. 12-4 AWG
 600 V
 65/65

 No. 14-4 AWG
 600 V
 95

 24 mm
 16 mm

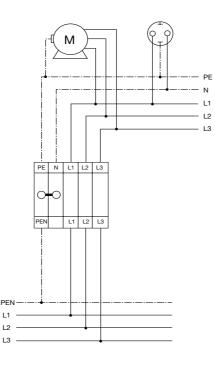
Accessories Accessories	pprovals								
Accessories 1. Mounting rail TS 35, DIN rail 7.5mm high				Туре	Part no. Std	. pack	Туре	Part no. Std.	pack
1. Mounting rail TS 35, DIN rail 7.5mm high	PEN assembly block	Color: greer	n/yellow – blue	WKI 10 PEN/35	56.510.9455.0	20	WKI 16 PEN/35	56.516.9455.0	20
1. Mounting rail TS 35, DIN rail 7.5mm high									
Mounting rail TS 35, DIN rail 15mm high	Accessories								
2. End clamp for TS 35, with screw 8 mm wide 9708/2 S35 Z5.522.8553.0 100 9708/2 S35 Z5.522.8553.0 100 End clamp for TS 35, without screws 8 mm wide WEF 1/35 Z5.523.9353.0 100 3. End plate 1.5 mm thick Color: gray 1.5 mm thick Color: blue 1.5 mm thick Color: blue 2 mm thick Color: gray 2 mm thick Color: gray 2 mm thick Color: gray 4. Partition plate Color: gray Color: blue 5. Cross connector with screws (jumper bar) 2 pole insulated 3 pole 5. Foreign facility Color: yellow 7. Cover with marking facility Color: yellow 1.5 marking symbol over 4 blocks Color: yellow 1.5 marking symbol for 1 block Color: yellow 1.5 marking facility Color: yellow 1.5 marking symbol for 1 block Color: yellow	1. Mounting rail TS 3	5, DIN rail 7.5mm hi	igh $L = 2 \text{ m}$	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
End clamp for TS 35, without screws 8 mm wide 1.5 mm thick	Mounting rail TS 3	5, DIN rail 15mm hi	gh $L = 2 m$	35 x 27 x 15 EN 60715	98.360.0000.0	1	35 x 27 x 15 EN 60715	98.360.0000.0	1
3. End plate 1.5 mm thick Color: gray 1.5 mm thick Color: green 1.5 mm thick Color: green 2 mm thick Color: green 3 mm thick Color: green 4. Partition plate Color: gray 5 Color: blue 5 Color: gray 6 Color: gray 7 Color: gray 8 Color: gray 9 Color: gray 8 Color: gray 9 C	2. End clamp for TS 3	35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
1.5 mm thick Color: plue API 10-16 BLAU 07.311.9455.6 10 API 10-16 BLAU 07.311.9455.6 API 10-16 BLAU 07.311.9455.6 API 10-16 BLAU 07.311.9455.6 API 10-16 BLAU 07.311.9455.6 API 10-16 BLAU 07.3	End clamp for TS 3	35, without screws	8 mm wide	WEF 1/35	Z5.523.9353.0	100			
1.5 mm thick	3. End plate	1.5 mm thick	Color: gray						
End plate 2 mm thick Color: gray 2 mm thick Color: blue 2 mm thick Color: green 4. Partition plate Color: blue 5. Cross connector with screws (jumper bar) 2 pole insulated 3 pole 4 pole 5 pole 6 pole 6. Partition plate with marking facility Color: yellow 7. Cover with marking facility Color: yellow 8. Cover with warning symbol over 4 blocks Color: yellow Cover with warning symbol over 4 blocks Color: yellow Cover with warning symbol over 4 blocks Color: yellow Cover with warning symbol over 4 blocks Color: yellow Cover with warning symbol over 4 blocks Color: yellow Cover with warning symbol over 4 blocks Color: yellow Cover with warning symbol over 4 blocks Color: yellow Cover with warning symbol over 4 blocks Color: yellow Cover with warning symbol over 4 blocks Color: yellow Cover with warning symbol over 4 blocks Color: yellow Cover with warning symbol over 4 blocks Color: yellow Cover with warning symbol for 1 block Color: yellow ADI 10/1 GELB 04.325.8553.8 10 AD 16/1 GELB 04.325.8653.8 10 8. Cover with warning symbol for 1 block Color: yellow Cover with warning symbol for 1 block Color: yellow ADI 10/1 GELB 04.325.8553.8 10 AD 16/1 GELB 04.325.8653.8 10 9. Busbar E-Cu 10 x 3 mm, tin-plated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m E-Cu 10		1.5 mm thick	Color: blue	API 10-16 BLAU	07.311.9455.6	10	API 10-16 BLAU	07.311.9455.6	10
2 mm thick Color: blue 2 mm thick Color: green 4. Partition plate Color: green 5. Cross connector with screws (jumper bar) 2 pole insulated 3pole 4pole 5pole 6. Partition plate with marking facility Color: yellow 7. Cover with marking facility Color: yellow 8. Cover with warning symbol over 4 blocks Color: yellow Cover with warning symbol for 1 block Color: yellow 8. Busbar E-Cu 10 x 3 mm, tin-plated, I _N = 140 A L = 1 m E-Cu 10 x 3 mm, unplated, I _N = 140 A L = 1 m 10. Connector clamp for busbar 11. Busbar support 8 mm wide 11. Busbar support 8 mm wide Busbar support 8 mm wide 12. Color: green 4. Color: green 4. Color: green 4. Color: blue 5. Color: blue 5. Color: yellow 7. Store School Scho		1.5 mm thick	Color: green						
2 mm thick	End plate	2 mm thick	Color: gray						
4. Partition plate		2 mm thick	Color: blue						
Color: blue Scross connector with screws (jumper bar) 2pole		2 mm thick	Color: green						
5. Cross connector with screws (jumper bar) 2 pole insulated 3pole 4pole 5pole 6pole 6. Partition plate with marking facility Color: yellow 7. Cover with marking facility Color: yellow 8. Cover with warning symbol over 4 blocks Color: yellow Cover with warning symbol for 1 block Color: yellow ADI 10/1 GELB 04.325.8553.8 10 AD 16/1 GELB 04.325.8653.8 10 AD 16/1 GEL	4. Partition plate		Color: gray						
insulated 3pole 4pole 5pole 6pole 6pole 6. Partition plate with marking facility Color: yellow AD VB 10 GELB 07.311.2353.8 10 TS 16 GELB 07.311.2453.8 10 AD VB 16 GELB 04.326.2453.8 10 AD VB 16 GELB 04.326.2453.8 10 AD VB 16 GELB 04.325.8653.8 10 AD 16/1 GELB 04.325.8653.			Color: blue						
4pole 5pole 6 6pole 6 6pole 6 6 6 6 6 6 6 6 6	5. Cross connector v	vith screws (jumper	bar) 2pole						
Spole Spol	insulated		3pole						
6pole 6. Partition plate with marking facility Color: yellow 7. Cover with marking facility Color: yellow AD VB 10 GELB 07.311.2353.8 10 TS 16 GELB 07.311.2453.8 10 AD VB 16 GELB 04.326.2453.8 10 AD VB 16 GELB 04.326.2453.8 10 AD VB 16 GELB 04.325.8553.8 10 AD VB 16 GELB 04.325.8653.8 10 AD VB 16 GELB 04.325.8653.8 10 AD 16/1 GELB 04.325.8653.8 10			4pole						
6. Partition plate with marking facility			5pole						
7. Cover with marking facility			6pole						
8. Cover with warning symbol over 4 blocks	6. Partition plate with	marking facility	Color: yellow	TS 10 GELB	07.311.2353.8	10	TS 16 GELB	07.311.2453.8	10
Cover with warning symbol for 1 block Color: yellow 9. Busbar	7. Cover with markin	g facility	Color: yellow	AD VB 10 GELB	04.326.2353.8	10	AD VB 16 GELB	04.326.2453.8	10
9. Busbar E-Cu 10 x 3 mm, tin-plated, I _N = 140 A	8. Cover with warning s	symbol over 4 blocks	Color: yellow						
E-Cu 10×3 mm, tin-plated, $I_N = 140$ A $L = 1$ m E-Cu 10×3 mm, unplated, $I_N = 140$ A $L = 1$ m 10.Connector clamp for busbar 16 mm² 8.5 mm wide 35 mm² 17 mm wide 11.Busbar support 4 mm wide Busbar support 8 mm wide	Cover with warning s	symbol for 1 block	Color: yellow	ADI 10/1 GELB	04.325.8553.8	10	AD 16/1 GELB	04.325.8653.8	10
E-Cu 10 x 3 mm, unplated, _N = 140 A	9. Busbar								
10.Connector clamp for busbar 16 mm²	E-Cu 10 x 3 mn	n, tin-plated, I _N = 140	A L = 1 m						
16 mm² 8.5 mm wide 35 mm² 17 mm wide 11.Busbar support 4 mm wide Busbar support 8 mm wide	E-Cu 10 x 3 mn	n, unplated, I _N = 140 A	A L = 1 m						
35 mm² 17 mm wide 11.Busbar support 4 mm wide Busbar support 8 mm wide	10.Connector clamp f	or busbar							
11.Busbar support 4 mm wide Busbar support 8 mm wide		16 mm ²	8.5 mm wide						
Busbar support 8 mm wide		35 mm ²	17 mm wide						
	11.Busbar support		4 mm wide						
Marking accessories see page 48/49 and page 90/91	Busbar support		8 mm wide						
Marking accessories see page 48/49 and page 90/91									
	Marking accessories	see page 48/49 and	page 90/91						



WKI 35 PEN/35

fine stranded stranded V A
16 – 35 mm² 16 – 50 mm² 400 V/6 kV/3 125
No. 10-2 AWG 600 V 95/95
No. 10-2 AWG 600 V 110
32 mm 13 mm

Туре	Part no. St	d. pack	
WKI 35 PEN/35	56.535.9455.0	10	
05 07 7 5 FN 00745			
35 x 27 x 7,5 EN 60715			
35 x 27 x 15 EN 60715	98.360.0000.0	1	
9708/2 S35	Z5.522.8553.0	100	
API 35 BLAU	07.311.8855.6	10	
711100 000	07.011.0000.0		
TS 35 GELB	07.311.8653.8	10	
AD 35/1 GELB	04.325.8753.8		



PEN assembly block for junction box IEC 947-7-2 EN 60947-7-2

Electrical power is often supplied to the plant in a 4 conductor three phase system (L1, L2, L3, and Ground). However, the electrical equipment in the plant may require a 5 conductor three phase system (L1, L2, L3, N, and Ground). Therefore, it is important to have a connection system to accommodate both possibilities.

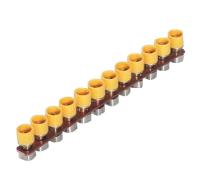
The Wieland WKI ... PEN/35 system accomplishes this task. The PEN assembly terminal block consists of a ground terminal which is grounded to the DIN rail and a neutral terminal (color coded blue) which is electrically isolated from the DIN rail. The two terminals are commoned via a cross connector (jumper bar) thereby, tying the neutral terminal to ground.

When using the PEN assembly terminal block system, the DIN mounting rail only acts as a grounding bus. Therefore, copper mounting rail is not required and standard zinc plated steel DIN can be used for grounding purposes.

These assemblies have the same symmetry as the corresponding feed through terminals of the WKI series and fit the height required for junction boxes per DIN 43871 when using DIN rail size $35 \times 27 \times 7.5$.

Accessories for DIN rail Terminal blocks with screw connection









Cross connectors (jumper bars) for installation blocks

Insulated jumper combs for installation blocks

Cover with warning symbol

	5.0000	ioi motamati	on blooks	0010	9 0 /001
Туре	Part no. Std. pack	Туре	Part no. Std. pacl	Туре	Part no. Std. pack
for terminal blocks ty	ype	for terminal blocks	type	for terminal blocks t	уре
WKI 4 D-D		WKI 4 D-D		Cover with warnin	g symbol over 4 blocks
WKI 4 DU		WKI 4 DU			
WKI 4 N-D-SL		WKI 4 N-D-SL		WK 4	
WKI 4 NT-D-SL (a	VKI 4 NT-D-SL (and variants)		(and variants)	AD 4/4 GELB	04.343.5856.6 10
WKI 4 NTN-D-SL		WKI 4 NTN-D-SL			
WKI 4 TKG-D-SL		WKI 4 TGK-D-SL			
WKI 4 D-D-SL		WKI 4 D-D-SL		Cover with warnin	g symbol for 1 block
		0.5 mm thick, 6 m	m spacing Color: yellow	,	
Cross connectors, u	uninsulated (jumper bars)	2pole IVB 0,5 WK	12 Z7.255.0227.0 10	WKI 10	
2pole 9703/6-2	Z7.211.0227.0 50	3pole IVB0,5 WK	13 Z7.255.0327.0 10	AD 10/1 GELI	3 04.325.8553.8 10
3pole 9703/6-3	Z7.211.0327.0 50	4pole IVB0,5 WK	14 Z7.255.0427.0 10)	
4pole 9703/6-4	Z7.211.0427.0 50	5pole IVB0,5WK	15 Z7.255.0527.0 10)	
5pole 9703/6-5	Z7.211.0527.0 50	6pole IVB0,5WK	16 Z7.255.0627.0 10	WKI 16	
6pole 9703/6-6	Z7.211.0627.0 50	7pole IVB0,5WK	l7 Z7.255.0727.0 10	AD 16/1 GELI	3 04.325.8653.8 10
70pole 9703/6 M-70	Z7.211.0027.0 10	8pole IVB0,5 WK	18 Z7.255.0827.0 10)	
		9pole IVB0,5WK	19 Z7.255.0927.0 10)	
Cross connectors, i	nsulated (jumper bars)	10pole IVB0,5 WK	110 Z7.255.1027.0 10	WKI 35	
12pole IVB WKI 4-12	Z7.271.5227.0 10	11pole IVB 0,5 WK	l11 Z7.255.1127.0 10	AD 35/1 GEL	B 04.325.8753.0 10
		12pole IVB0,5 WK	l12 Z7.255.1227.0 10)	
		1 mm thick, 6 mm	spacing Color: yellow	/	
		2pole IVB 1 WK 4	2 Z7.255.4227.0 10)	
		3pole IVB 1 WK 4	3 Z7.255.4327.0 10)	
		4pole IVB 1 WK 4	4 Z7.255.4427.0 10)	
		5pole IVB 1 WK 4	5 Z7.255.4527.0 10)	
		6pole IVB 1 WK 4	6 Z7.255.4627.0 10)	
		7pole IVB 1 WK 4	7 Z7.255.4727.0 10)	
		8pole IVB 1 WK 4	8 Z7.255.4827.0 10)	
		9pole IVB 1 WK 4	9 Z7.255.4927.0 10)	
		10pole IVB 1 WK 4	10 Z7.255.5027.0 10)	
		11pole IVB 1 WK 4	11 Z7.255.5127.0 10)	
		12pole IVB 1 WK 4	12 Z7.255.5227.0 10)	







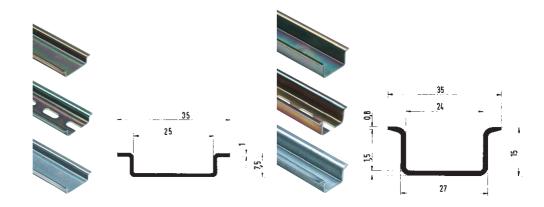
Uninsulated cross connectors (jumper bars) for feed-through blocks

Partition plates with marking facility Cover with marking facility

Insulated cross connectors (jumper bars) for feed-through blocks

for feed-through blocks			Cover with marking facility			for feed-through blocks		
Туре	Part no. Std. p	ack	Туре	Part no.	Std. pack	Туре	Part no. Std. pack	
for terminal blocks type	е		Partition plate with ma	arking fac	ility	for terminal blocks typ	е	
				Color	: yellow	WK 4/U		
WK 4/U			for terminal blocks type			2pole IVB WK 4-2	Z7.281.1227.0 10	
2pole VB WK 4-2	Z7.281.0227.0	10				3pole IVB WK 4-3	Z7.281.1327.0 10	
3pole VB WK 4-3	Z7.281.0327.0	10	WK 4/U			4pole IVB WK 4-4	Z7.281.1427.0 10	
4pole VB WK 4-4	Z7.281.0427.0	10	TS 4 YELLOW			5pole IVB WK 4-5	Z7.281.1527.0 10	
5pole VB WK 4-5	Z7.281.0527.0	10	WKI 10			6pole IVB WK 4-6	Z7.281.1627.0 10	
6pole VB WK 4-6	Z7.281.0627.0	10	TS 10 YELLOW	/		7pole IVB WK 4-7	Z7.281.1727.0 10	
70pole VB WK 4 M-70	Z7.281.0027.0	10				8pole IVB WK 4-8	Z7.281.1827.0 10	
			WKI 16			9pole IVB WK 4-9	Z7.281.1927.0 10	
WKI 10/U			TS 16 YELLOW	/		10pole IVB WK 4-10	Z7.281.2027.0 10	
2pole VB WKI 10-2	Z7.288.0227.0	10				11pole IVB WK 4-11	Z7.281.2127.0 10	
3pole VB WKI 10-3	Z7.288.0327.0	10	WKI 35			12pole IVB WK 4-12	Z7.281.2227.0 10	
4pole VB WKI 10-4	Z7.288.0427.0	10	TS 35 YELLOV	V				
5pole VB WKI 10-5	Z7.288.0527.0	10	Cover with marking fa	cility		WKI 10/U		
6pole VB WKI 10-6	Z7.288.0627.0	10	for cross connector	Colo	r: yellow	2pole IVB WKN 10-2	Z7.283.2227.0 10	
40pole VB WKI 10 M-40	Z7.288.0027.0	10	for terminal blocks typ	е		3pole IVB WKN 10-3	Z7.283.2327.0 10	
						4pole IVB WKN 10-4	Z7.283.2427.0 10	
WKI 16/U			WK 4			5pole IVB WKN 10-5	Z7.283.2527.0 10	
2pole VB WKI 16-2	Z7.289.0227.0	10	AD VB 4 YELL	WC		6pole IVB WKN 10-6	Z7.283.2627.0 10	
3pole VB WKI 16-3	Z7.289.0327.0	10	WKI 10					
4pole VB WKI 16-4	Z7.289.0427.0	10	AD VB 10 YELI	_OW		WKI 16/U		
5pole VB WKI 16-5	Z7.289.0527.0	10	WKI 16			2pole IVB WKI 16-2	Z7.284.9227.0 10	
6pole VB WKI 16-6	Z7.289.0627.0	10	AD VB 16 YELI	_OW		3pole IVB WKI 16-3	Z7.284.9327.0 10	
20pole VB WKI 16 M-20	Z7.289.0027.0	10				4pole IVB WKI 16-4	Z7.284.9427.0 10	
						5pole IVB WKI 16-5	Z7.284.9527.0 10	
						6pole IVB WKI 16-6	Z7.284.9627.0 10	
						WKI 35/U		
						2pole IVB WKI 35-2	Z7.285.4227.0 5	
						3pole IVB WKI 35-3	Z7.285.4327.0 5	
						4pole IVB WKI 35-4	Z7.285.4427.0 5	
						5pole IVB WKI 35-5	Z7.285.4527.0 5	
						6pole IVB WKI 35-6	Z7.285.4627.0 5	

Accessories for DIN rail terminal blocks for junction boxes fasis BIT selos BIT

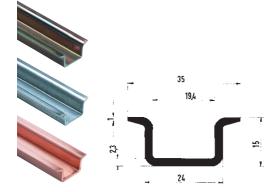


Mounting rail 35 x 7.5 accord. to DIN EN 60715

Mounting rail 35 x 15 accord. to DIN EN 60715

		accord: to Birt Ert		accord. to Birt E	
		Type Part n	o. Std. pack	Type Pa	rt no. Std. pack
Mounting rail					
1. Steel, galv. zinc-plated and dichromated,	unslotted L = 2 m	35 x 27 x 7.5 EN 60715	98.300.0000.0 1	35 x 27 x 15 EN 60715	98.370.0000.0 1
Steel, galv. zinc-plated and dichromate	d,slotted L = 2 m	35 x 27 x 7.5 EN 60715 slotted	98.300.1000.0 1	35 x 27 x 15 EN 60715	98.370.1000.0 1
2. Steel, unplated u	inslotted L = 2 m	35 x 27 x 7.5 EN 60715 unplated	98.300.0010.0 1		
Steel, unplated s	slotted L = 2 m				
3. Steel, hot-galvanized u	inslotted L = 2 m				
Steel, hot-galvanized s	slotted L = 2 m				
4. E copper u	inslotted L = 2 m				
E copper s	slotted L = 2 m				
5. Aluminium u	inslotted L = 2 m		98.750.0000.0 1 *		
S	slotted L = 1 m		98.800.1000.0 1 *		
6. Stainless steel u	inslotted L = 2 m		98.330.0000.0 1 *		
		*available in	North America only		
End clamp					
5. End clamp for TS 35, with screw	8 mm wide				
6. End clamp for TS 35, with screw	8/17.5 mm wide				
with marking facility					
for block assemblies					
7. End clamp for TS 35, screwless	8 mm wide				
·					
8. End clamp for TS 35, screwless	8/17.5 mm wide				
with marking facility					
for block assemblies					
9. Marking card in perforated sheets					
(1 sheet = 100 single tags)					

fasis







Mounting rail 35 x 15 accord. to DIN EN 60715

End clamp for TS 35 fixed with screw

End clamp for TS 35 fixed without screw

accord. to DIN EN 60715			fixed with s	crew		fixed witho	fixed without screw			
Type	Part no.	Std. pack	Туре	Part no.	Std. pack	Туре	Part no.	Std. pack		
35 x 27 x 15 EN 607	715 98.36	0.0000.0 1								
35 x 27 x 15 EN 607	715.7N 98.36i	0.0004.0 1								
00 X 27 X 10 214 007	10 214 00.00	0.0001.0								
35 x 27 x 15 EN 607	715 CU 98.38	0.0000.0 10								
			9708/2 S 35	Z5.522.8553.0	100					
			0700 /0 DC /05	00 000 0550 0	100					
			9708/2 BS/35	69.920.0553.0	100					
						WEF 1/35	Z5.523.9353.0	100		
						WEF 1 BS/35	69.920.1053.0	100		
						WKIF SH/E/35	Z1.108.8453.0	10		
						BS/R	Z4.243.8453.0			
				0.4.0.4.0.00			0.4.0.4.0.005.7.7			
				04.019.0289.0	10		04.019.0289.0	10		

Marking accessories for DIN rail terminal blocks for junction boxes

fasis BIT selos BIT







Material: Polyamide 66/6

Color: black figures on white background

DIN rail terminal blocks, type WKF, can take in marking tags on both sides on top of the block in a 3-chamber slot. It can be either 3 single number tags from the tear-off marking strip, or single tags, or marking strips.

 Marking strips marked and unmarked, made from Polyamide 66/6, suitable for 10 blocks in a row.

Marking 1-10, 11-20 etc. up to 991-999. Type 9705 A/5/10 (5 mm spacing) for terminal blocks type WKIF 2.5... Type 9705 A/6/10 (6 mm spacing) for terminal blocks type WK/WKF 4... Type 9705 A/5/10/5 B (10 mm spacing) for terminal blocks type WKI/WKF 10... Type 9705 A/6/10/5 B (12 mm spacing) for terminal blocks type WKI/WKIF 16... Type 9705 A/8/10/5 B (16 mm spacing) for terminal blocks type WKI/WKIF 15...

Tear-off marking strip with 10 marking tags, made from Polyamide 66/6, white, marked and unmarked.

This marking system considerably reduces the time required for marking terminal block rows. For numerical marking of terminal block rows only 11 stock positions are required. As the time used for picking and attaching the tags is reduced, and as stockkeeping is low and the prices extremely favorable, enormous cost savings are the result from using these tear-off marking strips.

Type 9704 A... (see page 180)

 Single marking tag made from white Polyamide 66/6, marked and unmarked. Type 9705 A...

Marking computer in system kit

All terminal block widths

Гуре	Part no.	Std. pack	Type	Part no.	Std. pack
Marking comp	uter for marking	cards	Single mark	ing tag, unmarked	
			9705 A	04.242.0850	0.0 500
			Single mark	ing tag, marked	
marcom 2	95.502.00	00.0 1	9705 AB*	04.842.0850	0.0 500
Description					
wieland marco	m 2 is a freely pr	ogrammable mark	ring		
computer for m	arking tags of DIN	I rail terminal	Single mark	ing tag, unmarked	
blocks, pluggab	le connectors, cal	oles and switching	with enlarge	ed marking area	
devices. The pro	ogram technology	with flexible	9705 AL	04.242.1553	3.0 500
menu control pr	oduces excellent	results requiring	only		
few input. Entry	of a sequence of	figures is	Single mark	ing tag, marked	
automatically lin	nited by the parar	neters of the sele	cted for enlarged	marking area	
marking tags, m	aking wrong prin	t-out impossible.	9705 ALB	04.842.1553	3.0 500
Repeated opera	tions can be save	d as so-called JO	Bs		
and are therefor	e immediately av	ailable for print-ou	ıt		
without further	entries. The comp	outer disposes of	a		
large number of	fonts, with nume	rical, alphanumer	ical		
(small/capital let	ters) and symboli	c characters.			
marcom 2 is po	wered by an atta	ched power suppl	у.		
For a mains-inde	ependent operation	n, the marcom 2			
Power Pack is a	vailable.				
Marking tag plat	tes for <i>marcom 2</i>	!			
9705 A/5/10/11 marcom Z4.242.5053.0 10					
9705 AL/5/10/6 ma	rcom Z4.242.51	53.0 10			
9705 A/6/10/11 ma	rcom Z4.242.60	53.0 10			
9705 AL/6/10/6 ma	rcom Z4.242.63	53.0 10			
9705 A/8/10/7 mar	com Z4.242.80	53.0 10			
			*Custom ma	rking upon request	

fasis







2,5 mm²/5 mm Width

4 mm²/6 mm Width

10 mm²/10 mm Width 16 mm²/12 mm Width 35 mm²/16 mm Width

								35 mm ² /16	mm vviatn	
Туре	Part no. Std.	pack	Туре		Part no.	Std. p	pack	Туре	Part no.	Std. pack
Marking strips, unm	arked		Marking str	ips, unm	arked					
9705 A/5/10	04.242.5053.0	25	9705 A/6/10		04.242.605	53.0	25	10 mm ² /10	mm Width	
Marking strips, mark	ced		Marking str	ips, mark	ed			marked for 5 blo	cks (every 2nd	tag) *
9705 A/5/9 B 1 - 9	04.842.4953.0	25	9705 A/6/9 B 1	- 9	04.842.595	53.0	25	9705 A/5/10/5 B	04.842.555	53.0 25
9705 A/5/10 B*	04.842.5053.0	25	9705 A/6/10 B*		04.842.605	53.0	25			
9705 A/5/10 B 1 - 10	04.845.0153.0	25	9705 A/6/10 B 1	- 10	04.846.015	53.0	25			
11 - 20	04.845.0253.0	25	11	- 20	04.846.025	53.0	25			
21 - 30	04.845.0353.0	25	21	- 30	04.846.035	53.0	25			
31 - 40	04.845.0453.0	25	31	- 40	04.846.045	53.0	25	16 mm²/12 ı	mm Width	
41 - 50	04.845.0553.0	25	41	- 50	04.846.055	53.0	25			
51 - 60	04.845.0653.0	25	51	- 60	04.846.065	53.0	25	marked for 5 blo	cks (every 2nd	tag) *
61 - 70	04.845.0753.0	25	61	- 70	04.846.075	53.0	25	9705 A/6/10/5 B	04.842.655	3.0 25
71 - 80	04.845.0853.0	25	71	- 80	04.846.085	53.0	25			
81 - 90	04.845.0953.0	25	81	- 90	04.846.095	53.0	25			
91 - 100	04.845.1053.0	25	91	- 100	04.846.105	53.0	25			
(T) (10 · ·)	04.055.0050.0	٥٢		(10 · ·)	04.050.000	-0.0	0.5	35 mm ² /16	mm Width	
	04.855.0053.0	25			04.856.005		25	33 111111 / 10 1	IIIII vviatii	
	04.855.0153.0	25			04.856.015		25		. ,	
	04.855.0253.0	25			04.856.025		25	marked for 5 blo		
,	04.855.0353.0	25			04.856.035		25	9705 A/8/10/5 B	04.842.855	53.0 25
,	04.855.0453.0	25			04.856.045		25			
	04.855.0553.0	25			04.856.055		25			
	04.855.0653.0	25		- , - ,	04.856.065		25			
	04.855.0753.0	25			04.856.075		25			
SL (10 x)	04.855.3153.0	25		SL (10 x)	04.856.315	53.0	25			
,	04.855.3253.0	25		, - ,	04.856.325		25			
F1 (10 x)	04.855.0953.0	25		=1 (10 x)	04.856.095	53.0	25			
F2 (10 x)	04.855.1053.0	25	l	=2 (10 x)	04.856.105	53.0	25			
L1, L2, L3, N, PE (2 x)	04.855.0853.0	25	L1, L2, L3, N,	PE (2 x)	04.856.085	53.0	25			
with enlarged marking	n area		with enlarge	d marking	ı area					
9705 AL/5/10	04.242.5153.0	25	9705 AL/6/10	a marking	04.242.635	53.0	25			
31 00 AL/ 3/ 10	0242.0100.0	20	37 03 ML/ 0/ 10		0+.242.000	50.0	20			

DIN rail terminal blocks with screw connection, type *WKN*

selos

Rising cage clamp connection

up to 150 mm2

Standard DIN rail terminal blocks

Fuse blocks

Disconnect blocks

Duo feed through blocks / multi-tier blocks

Initiator / actuator blocks

Micro modular feed through blocks for TS 35

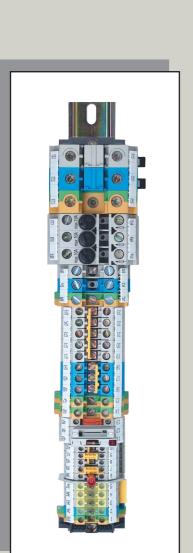
selos accord. to US standard UL 94 V-0

- Elastic clamping body
- Rated cross section: 2.5 to 150 mm²
- Connection range: 0.5 to 185 mm²
- Universal foot

All Wieland Components which require (ϵ general certification are ϵ certified, and identified with the (ϵ logo.

DIN rail terminal blocks with screw connection, type WKN

selos



2.5 mm² (12 AWG)



4 mm² (10 AWG)



6 mm² (8 AWG)



10 mm² (6 AWG)





2,5-150mm² 12 AWG – 350 MCM

12 AWG – 350 MCM

Feed-through

2,5-150mm²

blocks











Neutral disconnect blocks









Ground blocks









Standard DIN rail terminal blocks with rising

Disconnect lever fuse block



Disconnect block with diode plug



Disconnectblock with fuse holder



Knife edge disconnect block



Invertible plug disconnect block



Feed-through block



Disconnect blocks

Fuseblock

with

block

indicator



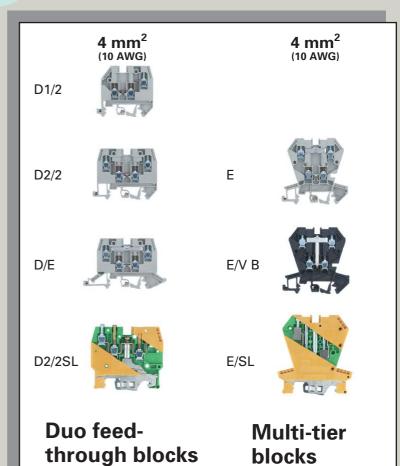


Feed-through



Fuse blocks





Connector clamps for busbars

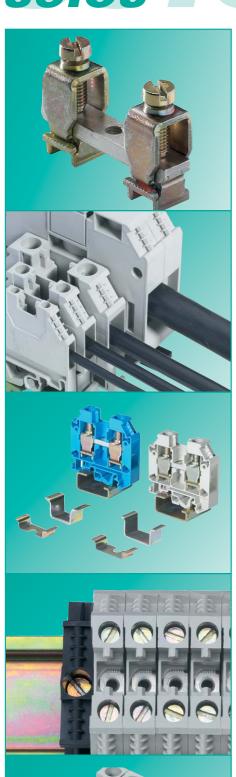


cage clamp

Three-tier feed-through block 4 mm² 2.5 mm² (12 AWG) (10 AWG) Feed-through block with solder Four-tier connection feed-through blocks Feed-through block Groundblock Initiator and actuator Micro modular feed **blocks** through blocks TS15

DIN rail terminal blocks with screw connection, type WKN

selos



WKN provides ...

- ☐ Rising cage clamp technology
- ☐ Elastic clamping body
- □ One piece threaded collar
- ☐ **Rated cross section** 2.5 150 mm² 12 AWG 350 MCM
- ☐ **Connection range** 0.5 – 185 mm² 24 AWG – 350 MCM
- ☐ Universal foot for
 - TS35 accord. to DIN 60715
 - TS32 accord. to DIN 60715
- ☐ Terminal is centered on the rail.

☐ Guided screwdriver access

- ☐ 4-sided Funneled wire entry
- ☐ The terminal blocks are delivered the **clamping body** in the open position

Application advantages

- → Low contact resistance due to large surface area
- → High and stable contact force
- → **Vibration proof contact** low maintenance
- → Guaranteed functionality, even after repeated tightening and loosening of the screws
- → Solid, fine stranded and stranded wires can be connected to the WKN terminal blocks without the use of ferrules
- → If ferrules are used, the rated cross section does not have to be reduced

- → One terminal for all common mounting rails
- → Error free mounting foot provides clear identification of terminals mounted incorrectly
- → Mounting safety
- → When pneumatic or electric screwdrivers are used, the screwdriver guide prevents the blade from slipping of the screw head.

- → Safe and rapid installation of the wire
- → Stranded and fine stranded wires can easily be inserted in the terminal block even without ferrules
- → Reduces installation time



☐ Captive hardware

Material

- ☐ Special alloys and surface treatment
- ☐ Low contact resistance
- High resistance to corrosion

Metal parts:

Current carrying bar: tin pated; brass or copper

The clamping screws are securely **held** within the insulating housing. Tapered plastic fins in the screw turret grip the screw head to ensure a

→ The screw design prevents the screw from comming out of the clamping body. Turning the screwdriver counter clockwise will cause the screw to spin in the idle position. This guarantees safe installation when

pneumatic or electric screwdrivers.

secure connection

☐ Clamping body and clamping screws: steel, zinc-plated and dichromated

Insulating housing:

- ☐ Use of Polyamide 66/6 for its excellent chemical and mechanical properties (for more information see section facts & DATA)
- Material accord. to US standard UL 94-V0

Accessories:

- ☐ Stamped components: bright copper
- ☐ Test bolts and switchable connecting links: galvanized copper alloy

DQS certificates for all product families

- Quality standard as per DIN ISO 9001 in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- ☐ Compatible with certificates of other countries:
- BSI Certificate, Great Britain
- SQS Certificate, Switzerland
- Aib-Vincotte Certificate, Belgium
- ÖQS Certificate, Austria

Various German and international approvals are available for feed-through terminal blocks. They are indicated in detail on the corresponding product pages. The feed-through blocks of series WK/WKN are approved for the increased-safety type of protection Eex "e" accord. to DIN EN 50019/VDE 0170/0171 part 6 where indicated. No type test is required for the Eex "i" type of protection.

You can use our **wieplan**software to configure your own terminal block assemblies (see page 10/11).

Note:

The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules.

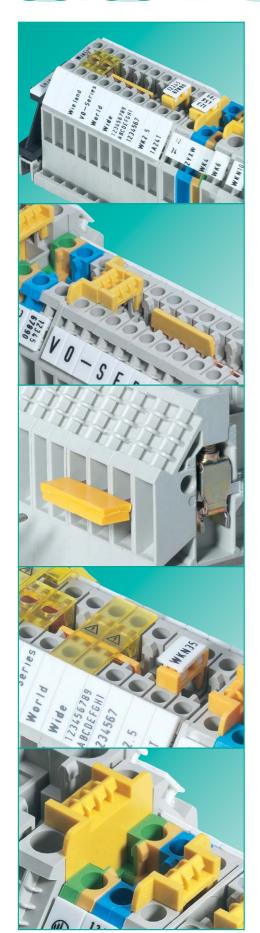
The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, **Wieland** offers a large selection of appropriate accessories.

A detailed description of technical data, the standards' requirements, and the application conditions can be found in part **facts** & DATA.



DIN rail terminal blocks with screw connection, type WKN

selos



Marking accessories

- ☐ Single marking tags to match the terminal block spacing
- ☐ Snap-on marking strips (10 individual marking tags per strip) for rapid marking
- ☐ Tear-off marking strips marking up to 3-digits per terminal block
- Custom marking upon request

Cross connection (jumpering)

Jumper combs

- Potential commoning can be achieved by means of cross connectors (jumpers) or jumper bars
- ☐ Insulated and uninsulated cross connectors are available in 2-12 pole configuration. Uninsulated versions are also available in larger pole configurations which can be cut to order.
- ☐ Cross connectors (jumpers) are mounted in the center thread of the current carrying bar
- ☐ They are preassembled for easy installation and the screws are secured against accidental loosening.
- In order to keep the rated voltage, end plates partitions or partition plates must be used
- ☐ Terminal blocks of different potentials must be mounted in staggering order
- Number of poles: 2 to 12; with cut-toorder strips higher pole configurations can be achieved
- When using jumper combs you must insert the comb and the wire together in the clamping body
- ☐ AWG must be reduced to the next size when using jumper combs
- All insulated cross connectors IVB WK... and insulated jumper combs IVK WK... are protected against accidental contact accord. to VBG 4

Cover with warning symbol

- Cover with warning symbol to snap on to blocks which remain live when the main switch is disconnected (VDE 0113)
- ☐ The cover can only be removed with a screwdriver

Partition plates

- Full rated voltage is maintained when using partition plate with cross connectors (jumpers).
- ☐ Can be installed post assembly
- ☐ The partition plates can only be removed with a screwdriver
- ☐ The cross connector covers protect the user against accidental contact
- Various marking options are available with the standard Wieland marking system



Protection against accidental contact for cross connectors

In addition to the partition plates you can use covers to protect the uninsulated cross connectors against accidental contact. They snap on tight and can be marked with the Wieland marking accessories.

Switchable connecting links

- ☐ Shorts two terminals together and provides a separable connection
- Mounted to the center thread of the current carrying bar on the terminal blocks

Test sockets

Test plugs

Shorting plug

- Stud bolts for test plugs and cross connector plugs are mounted on the center thread of the current carrying bar on the terminal blocks
- Test plugs with locking levers can be snapped together in any pole configuration

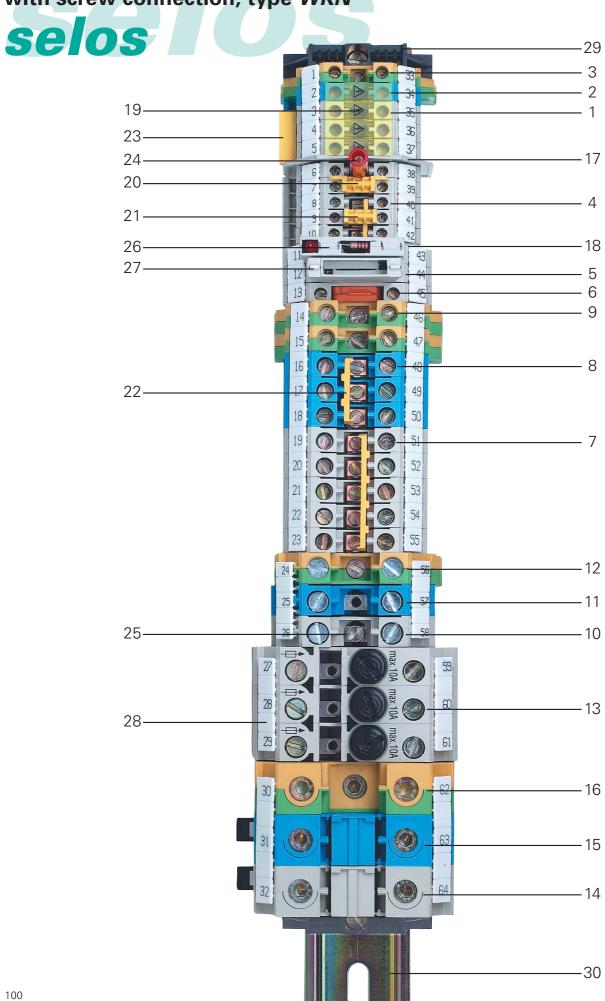
Partition plates

End plates

- ☐ Partition plates optically separate different terminal block groups, and are required to keep the air and creepage distances when cross connectors of different potentials are mounted adjacent to each other
- For safety reasons the partitions are constructed in a way that they can only be removed together with the neighboring terminal block

You can use our **wieplan** software to design your own terminal block assemblies (see page 10/11).

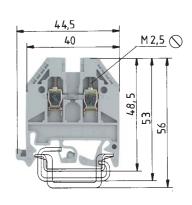
DIN rail terminal blocks with screw connection, type WKN



lte	m Description	Туре	Part number
1	Feed through block	WK 4/U	57.504.0055.0
2	Feed-through block, blue	WK 4/U BLAU	57.504.0055.6
3	Ground block	WK 4 SL/U	57.504.9055.0
4	Feed through block	WK 2,5/U	57.503.0055.0
5	Disconnect block	WK 4 TKG/U	57.504.4055.0
6	Knife edge disconnect block	WK 4 TKM/U	57.504.2055.0
7	Feed through block	WK 6/U	57.506.0055.0
8	Feed-through block, blue	WK 6/U BLAU	57.506.0055.6
9	Ground block	WK 6 SL/U	57.506.9055.0
10	Feed through block	WKN 10/U	57.510.0155.0
11	Feed-through block, blue	WKN 10/U BLAU	57.510.0155.6
12	Ground block	WKN 10 SL/U	57.510.9055.0
13	Fuse block	WK 10 SI/U 5x20	57.910.5055.0
14	Feed through block	WKN 35/U	57.535.0155.0
15	Feed-through block, blue	WKN 35/U BLAU	57.535.0155.6
16	Ground block	WKN 35/U	57.535.9055.0
17	Partition	TM 2 F 4	07 211 1155 0
17		TW 2,5-4	07.311.1155.0
18	End plate	AP 2,5-4	07.311.0155.0
19	Cover strip with warning symbol	AD VB 6/4 GELB	04.343.4856.8
20	over 4 blocks	TS 2,5 GELB	07.311.2053.8
21	Partition plate, yellow Single cover for cross conn. with mark. facil.	AD VB 2,5 GELB	04 226 2052 0
22	Cross connector with screws, insulated	IVB WK 6-3	04.326.2053.8 Z7.282.2327.0
23	•		Z7.255.0327.0
23	Jumper comb, insulated	IVB 0,5 WK 4-3	27.255.0327.0
24	Test plug	ST 2/2,3	Z5.553.2921.0
25	Stud bolt for test plug	9011B	05.508.3221.0
26	Fuse holder with indicator	SIST LED	Z1.299.4155.0
27	Diode plug, without contacts	DIST	Z1.299.3155.0
28	Marking strip	9705 A/8/10 B	04.842.0153.0
29	End clamp with U-foot	WE 1/U	Z5.523.5753.0
30	Mounting rail	35 x 27 x 7,5 slotted	98.300.0000.0
50	2	11.12 15 0101100	20.000.0000.0



Feed-through blocks type WK/WKN selos I (1)



WK 2,5/U

EN 60 947-7-1/DIN VDE 0611T1 **UL-ratings** field/factory wiring CSA ratings Width Wire strip length Approvals

fine stranded solid $0.5 - 2.5 \text{ mm}^2$ $0.5 - 4 \text{ mm}^2$ 800 V/8 kV/3 24 No. 22-12 AWG 600 V 20/30 No. 24-12 AWG 600 V 25 9 mm 5 mm

(a) \triangle (c) Sev-eex \triangle (c) (D) (N) (N) (F) (ET) (\triangle (S) ir lcie **%** * **®** ** BKI-EEx ⊕ **® ®**

Mounting instructions for **EEx e applications**

- If feed-through blocks are mounted directly adjacent to feed-through blocks of a different size, or directly adjacent to ground blocks, the open side of a group of the same type of blocks has to be covered by an end plate or partition.
- If neighboring terminal blocks are jumpered by a cross connector, the required isolation distances have to be maintained by inserting either a snapin partition plate (without increasing pitch), an end plate, or a partition between the different block groups, in front of or behind the cross-connected terminal block group.

EEx e terminal blocks are subject to certification. The relevant indications in the certificate apply (e.g. 660V)

Part certificates for EEx e approval: EEx e I/II L CIE 89.B0013 U; EEx e II ASEV 91.1 B11638U

UL wire connection variants 3) or 2x no. 14 sol/str AWG

or 2x no. 16 sol/str AWG or 2x no. 18 sol/str AWG or 3x no. 20 sol/str AWG or 3x no. 22 sol/str AWG

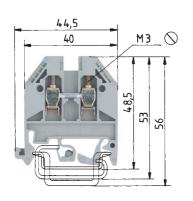
or 2x no. 12 sol/str AWG

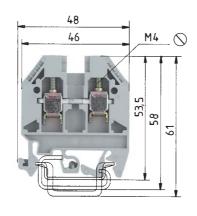
or 2x no. 16 sol/str AWG or 3x no. 18 sol/str AWG or 3x no. 22 sol/str AWG

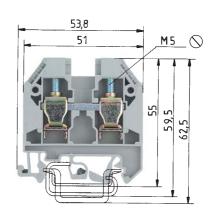
or 2x no. 12 sol/str AWG or 2x no. 14 sol/str AWG or 3x no. 16 sol/str AWG

		74 @ 5 ==x	
		Туре	Part no. Std. pack
Feed through block	Color: gray	WK 2,5/U	57.503.0055.0 100
Feed-through block EEx i	Color: blue	WK 2,5/U BLAU	57.503.0055.6 100
Feed-through block EEx e ¹⁾	Color: gray	WK 2,5/U ²⁾	57.503.0055.0 100
Accessories			
1. Mounting rail TS 35, DIN rail 7.5m	m high $L = 2 \text{ m}$	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
Mounting rail TS 35, DIN rail, 15m	m high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0 1
Mounting rail TS 32, G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0 1
2. End clamp with U-foot	10 mm wide	WE 1/U	Z5.523.5753.0 100
End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0 100
End clamp TS 32, with screw	7.5 mm wide	9708	Z5.522.7053.0 100
3. End plate, 1.5 mm thick	Color: gray	AP 2,5 - 4	07.311.0155.0 10
	Color: blue	AP 2,5 - 4 BLAU	07.311.0155.6 10
End plate, 2 mm thick	Color: gray		
	Color: blue		
4. Partition, 1.5 mm thick	Color: gray	TW 2,5 - 4	07.311.1155.0 10
	Color: blue	TW 2,5 - 4 BLAU	07.311.1155.6 10
Partition, 2 mm thick	Color: gray		
	Color: blue		
Partition, 3 mm thick	Color: gray		
	Color: blue		
5. Cross connector with screws, E-C	Cu		
insulated (jumper)	2pole	IVB WK 2,5 - 2	Z7.280.2227.0 10
	3pole	IVB WK 2,5 - 3	Z7.280.2327.0 10
	to 12pole	IVB WK 2,5 - 12	Z7.280.3227.0 10
6. Single cover f. cross conn. with m	ark.facility	AD VB 2,5 GELB	04.326.2053.8 10
7. Snap-In partition		TS 2,5 GELB	07.311.2053.8 10
8. Cover strip f. cross conn. over 10 block	s with test hole	AD VB 5/10 P GELB	04.342.3556.8 10
Cover strip with warning symbol over 4	l blocks	AD VB 5/4 GELB	04.343.4756.8 10
For more accessories see pages 160-	177		
For marking systems see pages 178-	179 and 200-202	* CL I, ZN1, AExe I	I / **CL I, ZN1, Exe II pending

1) EEx e te







WK 4/U

WK 6/U

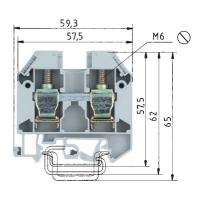
fine stranded solid V A
0.5 - 6 mm² 2.5 - 10 mm² 800 V/8 kV/3 41
No. 22-8 AWG 4) 600 V 50/50
No. 20-8 AWG 600 V 45
8 mm 11 mm

WKN 10/U

(B) \triangle (S) SEV-EEX \triangle (OF) (D) (N) (N) (F) (ET) (S) LR \blacksquare * (G) ** BKI-EEX \triangle (R) (F) (B)

9 * 6 ** BKI-EEx		71 * (§ ** BKI-EEx	⊕ ⊕ ⊕		
Туре	Part no. Std. pack	Туре	Part no. Std. pack	Type	Part no. Std. pack
NK 4/U	57.504.0055.0 100	WK 6/U	57.506.0055.0 100	WKN 10/U	57.510.0155.0 50
WK 4/U BLAU	57.504.0055.6 100	WK 6/U BLAU	57.506.0055.6 100	WKN 10/U BLAU	57.510.0155.6 50
WK 4/U ²⁾	57.504.0055.0 100	WK 6/U ²⁾	57.506.0055.0 100	WKN 10/U	57.510.0155.0 50
35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1
9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0 1
WE 1/U	Z5.523.5753.0 100	WE 1/U	Z5.523.5753.0 100	WE 1/U	Z5.523.5753.0 100
9708/2 S35	Z5.522.8553.0 100	9708/2 S35	Z5.522.8553.0 100	9708/2 S35	Z5.522.8553.0 100
9708	Z5.522.7053.0 100	9708	Z5.522.7053.0 100	9708	Z5.522.7053.0 100
AP 2,5 - 4	07.311.0155.0 10	AP 6	07.311.0255.0 10	APN 10	07.311.6655.0 10
AP 2,5 - 4 BLAU	07.311.0155.6 10	AP 6 BLAU	07.311.0255.6 10	APN 10 BLAU	07.311.6655.6 10
TW 2,5 - 4	07.311.1155.0 10	TW 6	07.311.1255.0 10	TWN 10	07.311.7655.0 10
TW 2,5 - 4 BLAU	07.311.1155.6 10	TW 6 BLAU	07.311.1255.6 10	TWN 10 BLAU	07.311.7655.6 10
IVB WK 4 - 2	Z7.281.1227.0 10	IVB WK 6 - 2	Z7.282.2227.0 10	IVB WKN 10 - 2	Z7.283.2227.0 10
IVB WK 4 - 3	Z7.281.1327.0 10	IVB WK 6 - 3	Z7.282.2327.0 10	IVB WKN 10 - 3	Z7.283.2327.0 10
IVB WK 4 - 12	Z7.281.2227.0 10	IVB WK 6 - 12	Z7.282.3227.0 10	IVB WKN 10 - 12	Z7.283.3227.0 10
AD VB 4 GELB	04.326.2153.8 10	AD VB 6 GELB	04.326.2253.8 10	AD VB 10 GELB	04.326.2353.8 10
TS 4 GELB	07.311.2153.8 10	TS 6 GELB	07.311.2253.8 10	TS 10 GELB	07.311.2353.8 10
AD VB 6/10 P GELB	04.342.3656.8 10	AD VB 8/10 P GELB	04.342.3856.8 10	AD VB 10/10 P GELB	04.342.4056.8 10
AD VB 6/4 GELB	04.343.4856.8 10	AD VB 8/4 GELB	04.343.4956.8 10	AD VB 10/4 GELB	04.343.5056.8 10
* CL 7N1 AEvo	/ **CL I, ZN1, Exe II pending	* CL 7N1 AEva	/ **CL I, ZN1, Exe II pending	* CL 7N1 AEva	I / **CL I, ZN1, Exe II pending

Feed through blocks type WKN selos



WKN 16/U

EN 60 947-7-1/DIN VDE 0611 T1 **UL-ratings** field/factory wiring CSA ratings Width Wire strip length Approvals

fine stranded solid/stranded 4 – 16 mm² 800 V/8 kV/3 76 $1.5 - 25 \text{ mm}^2$ No. 12-4 AWG 600 V 85/90 No. 14-4 AWG 600 V 95 15 mm 12 mm

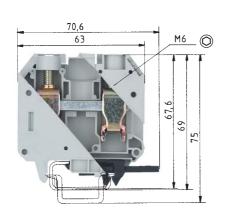
(a) \triangle (5) SEV-EEX \triangle (v) (D) (N) (N) (F) (E13) (S) LR \mathbf{N} * ① ** BKI-EEx ⊕ ⑥ ⑤ ⑤

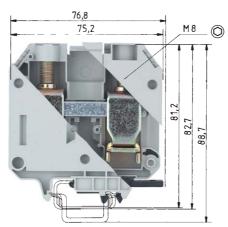
Mounting instructions for **EEx e applications**

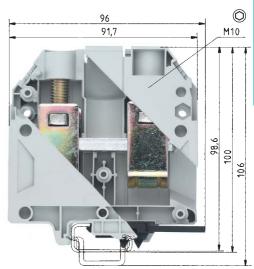
- If feed-through blocks are mounted directly adjacent to feed-through blocks of a different size, or directly adjacent to ground blocks, the open side of a group of the same type of blocks has to be covered by an end plate or partition.
- If neighboring terminal blocks are jumpered by a cross connector, the required isolation distances have to be maintained by inserting either a snap-in partition plate (without increased pitch), an end plate, or a partition between the different block groups, in front of or behind the cross-connected terminal block group.

		Type	Part no. Std	. pack
Feed through block	Color: gray	WKN 16/U	57.516.0155.0	50
Feed-through block EEx i	Color: blue	WKN 16/U BLAU	57.516.0155.6	50
Feed-through block EEx e*1)	Color: gray	WKN 16/U ²⁾	57.516.0155.0	50
_		-		
Accessories				
1. Mounting rail TS 35, DIN rail 7.5m	nm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail, 15n	nm high $L = 2 \text{ m}$	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot	10 mm wide	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw	8 mm wide	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw	7.5 mm wide	9708	Z5.522.7053.0	100
3. End plate, 1.5 mm thick	Color: gray			
	Color: blue			
End plate, 2 mm thick	Color: gray	APN 16	07.311.6755.0	10
	Color: blue	APN 16 BLAU	07.311.6755.6	10
Partition, 1.5 mm thick	Color: gray			
	Color: blue			
Partition, 2 mm thick	Color: gray	TWN 16	07.311.7755.0	10
	Color: blue	TWN 16 BLAU	07.311.7755.6	10
Partition, 3 mm thick	Color: gray			
	Color: blue			
5. Cross connector with screws, E-0	Cu			
insulated (jumper)	2pole	IVB WKN 16 - 2	Z7.284.2227.0	10
	3pole	IVB WKN 16 - 3	Z7.284.2327.0	10
	to 12pole	IVB WKN 16 - 12	Z7.284.3227.0	10
6. Single cover f. cross conn. with n	nark.facility			
7. Partition plate with marking facilit	:y	TSN 16 GELB	07.311.8453.8	10
Partition plate with cover		TSN AD 16 GELB	07.311.8553.8	10
8. Cover strip for cross conn. over 1	0 blocks			
Cover strip with warn. symb. ove	r 4 blocks	AD VB 12/4 GELB	04.343.5156.8	10
For more accessories see pages 160	-177			
For marking systems see pages 178-		* CL I, ZN1, AExe II	/ **CL I. ZN1 F	xe II pending

with CCA certificate EEx e terminal blocks are subject to certification. The relevant indications in the certificate apply (e.g. 660V) Part certificates for EEx e approval: EEx e II ASEV 91.1 B11638U







enclosed design

WKN 35/U

fine stranded stranded V A
10-35 mm² 10-50 mm² 800 V/8 kV/3 125
No. 10-2 AWG 600 V 95/95
No. 10-2 AWG 600 V 110
16 mm 18 mm

(B) EPM △ (\$) SEV-EEX (***) (D) (N) (N) (F) (ETT) (S) LR **71** * (§) ** BKI-EEX (♠) (§) (§) (B)

enclosed design WKN 70/U

fine stranded stranded V A
10-70 mm² 16-95 mm² 800 V/8 kV/3 192
No. 6-2/0 AWG 600 V 175/175
No. 6-2/0 AWG 600 V 170

24 mm (i) \triangle (c) Sev-Eex \bigcirc (d) (e) La \bigcirc 1) (d) 2 BKI-Eex \bigcirc (e) (f) (e)

enclosed design

24 mm

WKN 150/U

fine stranded stranded V A 35–150 mm² 35–185 mm² 1000 V/8 kV/3 309 No. 2/0 AWG - 350 kcmil 600 V 335/335 No. 2/0 AWG - 350 MCM 1000 V 365 28 mm 30 mm

28 mm 30 m

△ ⑤ SEV-EEX ① 🔊 ¹¹ ⑥ ²¹ BKI-EEX 🍣 🚱 ⑥

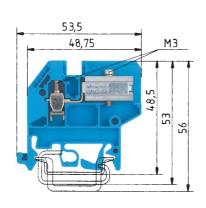
C BUILDEY O	₩		BILL SELV CO (B) (B) (B)			9		
Type	Part no. Std.	. pack	Type	Part no. Std	. pack	Type	Part no. Std	. pack
WKN 35/U	57.535.0155.0	20	WKN 70/U	57.570.0155.0	20	WKN 150/U	57.597.0155.0	10
WKN 35/U BLAU	57.535.0155.6	20	WKN 70/U BLAU	57.570.0155.6	20	WKN 150/U BLAU	57.597.0155.6	10
WKN 35/U 2)	57.535.0155.0	20	WKN 70/U 2)	57.570.0155.0	20	WKN 150/U 2)	57.597.0155.0	10
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
TWN 35	07.311.7855.0	10						
TWN 35 BLAU	07.311.7855.6	10						
			TWN 70	07.311.7955.0	10			
			TWN 70 BLAU	07.311.7955.6	10			
			jumper bars unisulate			jumper bars unisulate	ed see page 165	
IVB WKN 35 - 2	Z7.285.2227.0	5	jampor zaro amounato	a coo pago .co		7		
IVB WKN 35 - 3	Z7.285.2327.0	5						
IVB WKN 35 - 12	Z7.285.3227.0	5						
AD VB 35 GELB	04.326.2553.8	10	AD VB 70 GELB	04.326.2653.8	10			
75 00 0225	120.200.0		, , , , , , , , , , , , , , , ,	2				
AD VB 16/4 GELB	04.343.5256.8	10	AD VB 24/4 GELB	04.343.5356.8	10	AD VB 28/4 GELB	04.343.5456.8	10
70 10/4 GEED	00-0.0200.0	10	70 VD 24/4 ULLU	0040.0000.0	10	7.5 70 20/ 1 GEED	3 10.0 100.0	
* CL 7N11 A F !!	/ **CL 7N4 F:	un II mandina	1) 2) CL I, ZN1, AExe I	I Eve II nending		1) 2) CL I, ZN1, AExe I	L. Eva II. nan -Br -	
* CL I, ZN1, AExe II	/ " "CL I, ZNT, E	xe ii penaing	CL I, ZINI, ALXE I	i, Lac ii periality		CL I, ZNI, AEXe I	i, Exe ii pending	

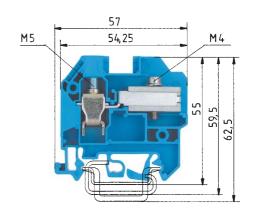
Neutral disconnect blocks for installation with U-foot, type WKN

field/factory wiring

Wire strip length

selos





Current carrying capability: fine stranded:

solid: 6 mm^2

25 A 30 A Current carrying capability: fine stranded: 16 mm²

45 A 50 A

WKN 4 ETK/U

fine stranded solid $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ 400 V/6 kV/3*) CSA No. 20-10 AWG 600V 25 6 mm 9 mm

WKN 10 ETK/U

stranded:

fine stranded solid/stranded $1-10 \text{ mm}^2$ $1-16 \text{ mm}^2$ 400 V/6 kV/3*CSA No.16-6 AWG 600V 45 10 mm 13 mm

€ ® ® ® (\$ N **(1)** ⊕ **(3)** (**(9)**

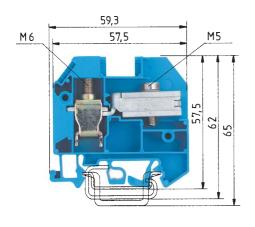
Widt	h
Appr	ovals
Ne	utral disconne
Ac	cessories
1.	Mounting rail T
	Mounting rail T
	Mounting rail T
2.	End clamp with

EN 60 947-7-1/DIN VDE 0611 T1

UL-ratings/CSA ratings

	Туре	Part no. Std. pack	Type	Part no. Std. pack
Neutral disconnect block Color: blue	WKN 4 ETK/U	57.504.8155.0 100	WKN 10 ETK/U	57.510.8155.0 50
Accessories				
1. Mounting rail TS 35, DIN rail, 7.5 mm high $L = 2 \text{ m}$	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
Mounting rail TS 35, DIN rail 15 mm high $L = 2 \text{ m}$	35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1
Mounting rail TS 32, G rail L = 2 m	9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0 1
2. End clamp with U-foot 10 mm wide	WE 1/U	Z5.523.5753.0 100	WE 1/U	Z5.523.5753.0 100
End clamp TS 35, with screw 8 mm wide	9708/2 S35	Z5.522.8553.0 100	9708/2 S35	Z5.522.8553.0 100
End clamp TS 32, with screw 7.5 mm wide	9708	Z5.522.7053.0 100	9708	Z5.522.7053.0 100
3. End plate 1,5 mm thick Color: gray				
Color: blue	APN 4 ETK	07.312.1155.0 10	APN 10 ETK	07.312.0955.0 10
End plate 2 mm thick Color: gray				
Color: blue				
4. Partition, 1.5 mm thick Color: gray				
Color: blue				
Partition, 2 mm thick Color: gray				
Color: blue				
Partition, 3 mm thick Color: gray				
Color: blue				
5. Busbar support 10 x 3 4 mm wide	WKI SH/U	01.108.3255.0 10	WKI SH/U	01.108.3255.0 10
6. Busbar E-Cu, 10 x 3 L = 1 m	9813 M	98.290.0000.0 1	9813 M	98.290.0000.0 1
Busbar, tin-plated, 10 x 3 L = 1 m	9813 M SN	98.290.1000.0 1	9813 M SN	98.290.1000.0 1
7. Connector clamps for busbar Farbe: blue				
Connector clamps for busbar Color: unplated				
8. Single cover f. cross conn. with marking facility	AD VB 4 GELB	04.326.2153.8 10	AD VB 10 GELB	04.326.2353.8 10
Partition plate with marking facility				
10. Cover strip for cross conn. over 10 blocks				
Cover strip with warn. symb. over 4 blocks				
For more accessories see pages 160-177				
For marking systems see pages 178-179 and 200-202				
*) For use in grounded networks 690/400 V				

Connector clamps for Cu busbar (10 x 3 mm), type *WAK*







Current carrying capability: fine stranded: stranded:

62 A 67 A 25 mm²

EN 60 998-2-1 CCA/CH

EN 60 998-2-1 CCA/CH

WKN 16 ETK/U

fine stranded solid/stranded $1-16 \text{ mm}^2$ $1-25 \text{ mm}^2$ $400 \text{ V/6 kV/3*}^{\circ}$ CSA No. 14-4 AWG 600V 65 15 mm 12 mm

WAK 16/2

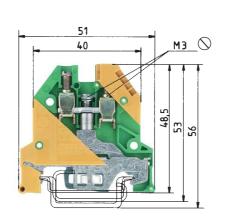
fine stranded stranded $1,5-16 \text{ mm}^2$ $10-16 \text{ mm}^2$

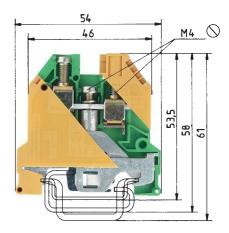
Α 76 **WAK 35/2**

fine stranded stranded $16 - 35 \text{ mm}^2$ $16 - 35 \text{ mm}^2$ 125

12 mm	1	600V	15 mm	8,4 mm			16 mm	17 mm		14 mm
€ 6 8 8 6				\$ sev FI B				SEV FD		
Туре	Part no. Std	l. pack		Туре	Part no.	Std. pack		Туре	Part no.	Std. pack
WKN 16 ETK/U	57.516.8155.0	50								
35 x 27 x 7,5 EN 60715	98.300.0000.0	1								
35 x 24 x 15 EN 60715	98.360.0000.0	1								
9006 EN 60715 G-32	98.190.0000.0	1								
WE 1/U	Z5.523.5753.0	100								
9708/2 S35	Z5.522.8553.0	100								
9708	Z5.522.7053.0	100								
APN 16 ETK	07.312.0855.0	10								
WKI SH/U	01.108.3255.0	10								
9813 M	98.290.0000.0	1								
9813 M SN	98.290.1000.0	1								
				WAK 16/2 BLAU	30.494.302	21.6 100		WAK 35/2 BLAU	30.494.4021.6	
								WAK 35/2	30.494.4121.0	50
AD VB 16 GELB	04.326.2453.8	10								

Ground blocks type WK/WKN ... SL/U selos





enclosed design

enclosed design

WK 4 SL/U

EN 60 947-7-2/DIN VDE 0611 T3 UL-ratings field/factory wiring CSA ratings

Width Wire strip length

Approvals

fine stranded solid $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ 800 V/8 kV/3*)No. 22-10 AWG No. 20-10 AWG

6 mm 9 mm

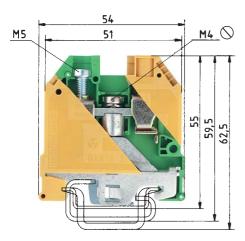
WK 6 SL/U

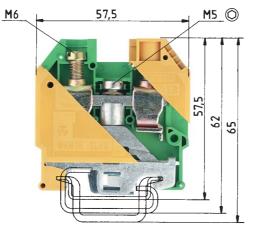
fine stranded solid 0.5-6 mm² 0.5-10 mm² 800 V/8 kV/3*) No. 22-8 AWG No. 20-8 AWG 8 mm

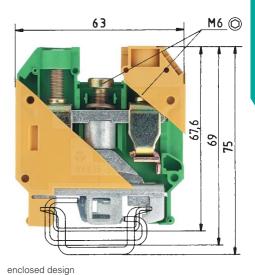
12 mm (B) EPM (\$) SEV-EEX (\$\infty\$ (\$\infty\$ (\$\infty\$) (\$\infty\$) (\$\infty\$ (\$\infty\$) (\$\in

	BKI-EEx ⊕ 🚱 🚯 🗚		BKI-EEx ⇔ 🚱 😥 🖊	B /
	Туре	Part no. Std. pack	Туре	Part no. Std. pack
Ground block with U-foot Color: yellow/green	WK 4 SL/U	57.504.9055.0 100	WK 6 SL/U	57.506.9055.0 100
EEx e ground block with U-foot ¹⁾	WK 4 SL/U ²⁾	57.504.9055.0 100	WK 6 SL/U ²⁾	57.506.9055.0 100
Accessories				
1. Mounting rail TS 35, DIN rail, 7.5 mm high $L = 2 \text{ m}$	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
Mounting rail TS 35, DIN rail, 15mm high $L = 2 \text{ m}$	35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1
Mounting rail TS 32, G rail $L = 2 \text{ m}$	9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0 1
2. End clamp with U-foot 10 mm wide				
End clamp TS 35, with screw 8 mm wide				
End clamp TS 32, with screw 7.5 mm wide				
3. End plate, 1.5 mm thick Color: gray				
Color: blue				
End plate, 2 mm thick Color: gray				
Color: blue				
4. Partition, 1.5 mm thick Color: gray				
Color: blue				
Partition, 2 mm thick Color: gray				
Color: blue				
Partition, 3 mm thick Color: gray				
Color: blue				
5. Cross connector with screws, E-Cu				
insulated (jumper) 2pole				
3pole				
to 12pole				
6. Single cover f. cross conn. with marking facility				
7. Snap-in partition plate with marking facility				
8. Cover strip for cross conn. over 10 blocks				
Cover strip with warn. symb. over 4 blocks				
For more accessories see pages 160-177				
For marking systems see pages 178-179 and 200-202	* CL I, ZN1, AExe II	/ **CL I, ZN1, Exe II pending		
Ratings to adjacent feed-through blocks of the same series and **) For the current carrying capability of the mounting rail see section EEx e terminal blocks are subject to certification. The relevant in Part certificates for EEx e approval: EEx e II ASEV 91.1 B11638U	on facts & DATA dications in the certificate	apply (e.g. 660V)	* 01 704 45	II / **CL 7N1 Fue II ecodice

* CL I, ZN1, AExe II / **CL I, ZN1, Exe II pending







enclosed design

enclosed design

WKN 10 SL/U

fine stranded solid/stranded V $2.5-10~\text{mm}^2$ $1.5-16~\text{mm}^2$ 800 V/8 kV/3*) No. 16-6 AWG No. 16-6 AWG 10 mm 13 mm

(B) EPM (\$) SEV-EEX (\$) (N) (F) (F) (F) (S) LR 91 * (6) **

BKI-EEX 🔴 🚱 🚱 🔞

WKN 16 SL/U

fine stranded solid/stranded $4-16 \text{ mm}^2$ $1.5-25 \text{ mm}^2$ 800 V/8 kV/3*) No. 12-4 AWG No. 14-4 AWG 12 mm 15 mm (L) EPM (S) SEV-EEX (N) (N) (F) (ETG) (S) LR 71 * (6) **

BKI-EEX 🔷 🚱 🚯 🔞

WKN 35 SL/U

fine stranded stranded 10-35 mm² 10-50 mm² 800 V/8 kV/3*¹ **¹ No. 10-2 AWG No. 10-2 AWG 16 mm 20 mm

(i) EPM ($^{+}_{S}$) SEV-EEX $_{SEV}$ (N) (N) (F) (ETT) (S) LR $^{+}$ (§) ** BKI-EEX 🔷 🚱 🚯 🔞

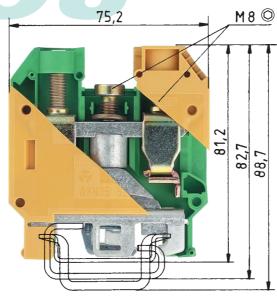
∨ ⋓ ⋓ ∨			∨ ७ ७ ∨			∨ ⋓ 		
Туре	Part no. Std.	pack	Туре	Part no. Std.	. pack	Туре	Part no. Sto	d. pack
WKN 10 SL/U	57.510.9055.0	50	WKN 16 SL/U	57.516.9055.0	50	WKN 35 SL/U	57.535.9055.0	20
WKN 10 SL/U ²⁾	57.510.9055.0	50	WKN 16 SL/U ²⁾	57.516.9055.0	50	WKN 35 SL/U ²⁾	57.535.9055.0	20
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
* CLI 7N11 AEva II	/ **CL I, ZN1, E>	ke II pendina	* CL I, ZN1, AExe II	/ **CL L 7N1 F:	xe II pendina	* CL I, ZN1, AExe II	/ **CL I. ZN1. E	xe II pendina

Ground blocks with screw connection, type WKN

selos

For ground blocks of 70 mm² or more only mounting rails from E-copper must be used because of the current carrying capability.

UL-ratings



enclosed design

available from October 2001

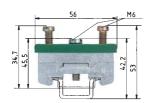
WKN 70 SL/U

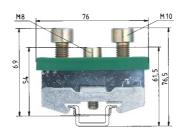
fine stranded stranded DIN VDE 0611 Teil 3/11.89, DIN VDE 0110/01.89 $10 - 70 \text{ mm}^2$ $16 - 95 \text{ mm}^2$ 800 V/8 kV/3 field/factory wiring

CSA ratings CSA No. 6-2/0 AWG Pending Width Wire strip length 24 mm

Approvals		<u>✓sev</u> Я\ * ⑥ *			
		Туре	Part no. Std.	pack	
Ground block with U-foot	Color: yellow/green	WKN 70 SL/U	57.570.9055.0		
Ground block for TS 35 EN60715	Color: yellow/green				
Accessories					
1. Mounting rail TS 35, DIN rail, 7	7.5 mm high $L = 2 \text{ m}$				
Mounting rail TS 35, DIN rail, 1	15mm high $L = 2 \text{ m}$	35 x 24 x 15 EN 60715 CU	98.380.0000.0	10	
Mounting rail TS 32, G rail	L = 2 m	9006 EN 60715 G-32 E-CU	98.220.0000.0	10	
2. End clamp with U-foot	10 mm wide				
End clamp TS 35, with screw	8 mm wide				
End clamp TS 32, with screw	7.5 mm wide				
3. End plate, 1.5 mm thick	Color: gray				
	Color: blue				
End plate, 2 mm thick	Color: gray				
	Color: blue				
4. Partition, 1.5 mm thick	Color: gray				
	Color: blue				
Partition, 2 mm thick	Color: gray				
	Color: blue				
Partition, 3 mm thick	Color: gray				
	Color: blue				
5. Cross connector (jumper) with	screws, E-Cu				
insulated	2pole				
	3pole				
	to 12pole				
6. Single cover f. cross conn. wit	h marking facility				
7. Partition plate with marking fac	cility				
8. Cover strip for cross conn. over	er 10 blocks				
Cover strip with warn. symb. c	over 4 blocks				
For more accessories see pages16	60-177				
For marking systems see pages 1		* CL I, ZN1, AExe II /	Exe II nending		
**) For the current carrying capability of t			LAC II PERMITY		
r or the current carrying capability of t	the mounting rail see section	I IACLS & DATA			

Ground blocks for TS 35





Clamping screw stop-plate, Polyamide 66/6 Clamping body, nickel-plated brass Screws: nickel-plated brass Clamping foot: nickel-plated brass Clamping spring: zinc-plated steel

9700 A/35 E S 35

fine stranded stranded 35 mm² 50 mm²

V

9700 A/70 E S 35

fine stranded stranded 70 mm 2 120 mm 2 No. 6-2/0 AWG No. 6-2/0 AWG

V

A * *)

\$

(2) (N) **91.** (G) (E)

9 9			0 0 0			
Type	Part no.	Std. pack	Туре	Part no. Std.	pack	
9700 A/35 E S 35	Z2.302.0621	.0 25	9700 A/70 E S 35	Z2.302.0421.0	10	
35 x 27 x 7,5 EN 60715	98.300.0000					
35 x 24 x 15 EN 60715	98.360.0000	0.0 1	35 x 24 x 15 EN 60715 Cl	98.380.0000.0	10	

Duo feed through blocks, type WK 4/D... Selos

field/factory wiring

Wire strip length

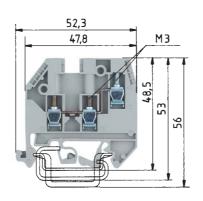
EN 60 947-7-1/DIN VDE 0611 T1

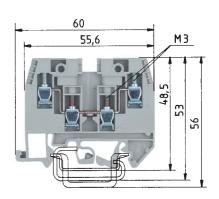
EN 60 947-7-2/DIN VDE 0611 T3

UL-ratings

CSA ratings

Width





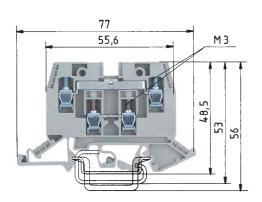
WK 4/D 1/2 /U

fine stranded solid V A 0.5 – 4 mm² 0.5 – 6 mm² 500 V/6 kV/3 32 No. 22-10 AWG 600 V 30 No. 20-10 AWG 600 V 30 6 mm 9 mm

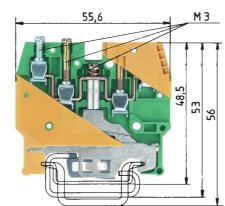
WK 4/D 2/2 /U fine stranded solid V

fine stranded solid V A
0.5 - 4 mm² 0.5 - 6 mm² 500 V/6 kV/3 32
No. 22-10 AWG 600 V 30
No. 20-10 AWG 600 V 30
6 mm 9 mm

pprovals		B			(B) <u>sex</u> (N) (N) (P) (S) in 91 * (G) ** (⊕) (B) (B)		
		Туре	Part no. Std. pac		Туре		I. pack
Duo feed-through block 1/2	Color: gray	WK 4/D 1/2 /U	57.504.5055.0 100	0			
	Color: blue	WK 4/D 1/2 /U BLAU	57.504.5055.6 100	0			
Duo feed-through block 2/2	Color: gray				WK 4/D 2/2 /U	57.504.5155.0	100
	Color: blue				WK 4/D 2/2 /U BLAU	57.504.5155.6	100
Duo multi-tier block	Color: gray						
Duo ground block 2/2 Cold	r: green/yellow						
Accessories							
1. Mounting rail TS 35, DIN rail, 7.5 mm	n high $L = 2 \text{ m}$	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 mm	high $L = 2 \text{ m}$	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot	10 mm wide	WE 1/U	Z5.523.5753.0 100	0	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw	8 mm wide	9708/2 S 35	Z5.522.8553.0 100	0	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32 with screw	7.5 mm widet	9708	Z5.522.7053.0 100	0	9708	Z5.522.7053.0	100
3. End plate, 1.5 mm thick	Color: gray	AP 4/D 1/2	07.311.6455.0 10	0	AP 4/D	07.311.6355.0	10
	Color: blue	AP 4/D 1/2 BLAU	07.311.6455.6		AP 4/D BLAU	07.311.6355.6	10
4. Partition, 1.5 mm thick	Color: gray						
5. Cross connector with screws, E-Cu							
insulated (jumper)	2pole	IVB WK 4 D2	Z7.281.7227.0 10	0	IVB WK 4 D2	Z7.281.7227.0	10
	3pole	IVB WK 4 D3	Z7.281.7327.0 10	0	IVB WK 4 D3	Z7.281.7327.0	10
	to 12pole	IVB WK 4 D12	Z7.281.8227.0 10	0	IVB WK 4 D12	Z7.281.8227.0	10
6. Jumper comb for lower tier blocks							
insulated	2pole	IVK WK 4/D2	Z7.256.2227.0 10	0	IVK WK 4/D2	Z7.256.2227.0	10
	to 6pole	IVK WK 4/D6	Z7.256.2627.0 10	0	IVK WK4/D6	Z7.256.2627.0	10
Jumper comb, straight, 1mm thick	2pole						
	to 6pole						
7. Single cover f. cross conn. with mark	king facility	AD VB 4 GELB	04.326.2153.8 10	0	AD VB 4 GELB	04.326.2153.8	10
8. Partition plate with marking facility		TS 4/15 GELB	07.311.2953.8 10	0	TS 4/15 GELB	07.311.2953.8	10
9. Cover strip for cross conn. over 10 b	locks	AD VB 6/10 GELB	04.342.0656.8 10	0	AD VB 6/10 GELB	04.342.0656.8	10
Cover strip with warn. symb. over 4	blocks						
10. Cover with warning symbol							
For more accessories see pages 160-17	7						
For marking systems see pages 178-179	9 and 200-202	* CL I, ZN1, AExe II / **CL I, ZN1, Exe II pending			* CL I, ZN1, AExe II / **CL I, ZN1, Exe II pending		



- *) 500 V/6 kV/3 with partition plate 07.311.2953.8 between two adjacent blocks
 **) with partition plate 07.311.2953.8 between two adjacent blocks



enclosed design

** For the ratings to adjacent feed-through blocks of the same series and size and the current carrying capability of the mounting rail see section **facts** & DATA

WK 4/D EU

V 0.5 – 4 mm² 0.5 – 6 mm² 320 V/4 kV/3*⁾ No. 22-10 AWG 300 V**) 26 300 V**) 30 600 V**) No. 20-10 AWG 30 6 mm 9 mm

WK 4/D 2/2 SL U

fine stranded solid $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ 500 V/6 kV/3*)No. 22-10 AWG No. 20-10 AWG 6 mm 9 mm

6 mm (a) <u>sex</u> (N) (N) (F) (S)	IR % * @ ** €	_	9 mm	6 mm ⓐ <u>∕sev</u> № № ₱ Ѕ	LR 911 * ()	** 😩 🚱 📵	9 mm
Туре	Part no. Std	. pack		Туре	Part no.	Std. pack	
WK 4/D EU	57.504.5255.0	100					
				WK 4/D 2/2 SL U	57.504.91	55.0 100	
35 x 27 x 7,5 EN 60715	98.300.0000.0	1		35 x 27 x 7,5 EN 60715	98.300.00	00.0 1	
35 x 24 x 15 EN 60715	98.360.0000.0	1		35 x 24 x 15 EN 60715	98.360.00		
9006 EN 60715 G-32	98.190.0000.0	1		9006 EN 60715 G-32	98.190.00		
WE 1/U		100		3000 LIN 007 13 U-32	30.130.00	00.0	
9708/2 S 35		100					
9708	Z5.522.7053.0	100					
AP 4/D	07.311.6355.0	10					
AP 4/D BLAU	07.311.6355.6	10					
IVB WK 4/DEU-2	Z7.271.0227.0	10					
IVB WK 4 /DEU-3	Z7.271.0327.0	10					
IVB WK 4/DEU-12	Z7.271.1227.0	10					
IVK WK 4/D2	Z7.256.2227.0	10					
IVK WK 4/D6	Z7.256.2627.0	10					
AD VB 4 GELB	04.326.2153.8	10					
TS 4/15 GELB	07.311.2953.8	10					
AD VB 6/10 GELB	04.342.0656.8	10					
* CL I, ZN1, AExe II	/ **CL I, ZN1, E	xe II		* CL I, ZN1, AExe II	/ **CL I, Z	N1, Exe II	

Multi-tier blocks type WK 4 E... selos

field/factory wiring

Wire strip length

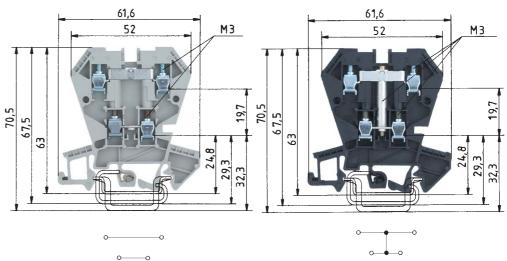
EN 60 947-7-1/DIN VDE 0611 T1

EN 60 947-7-2/DIN VDE 0611 T3

UL-ratings

CSA ratings

Width



9 mm

WK 4 E/U

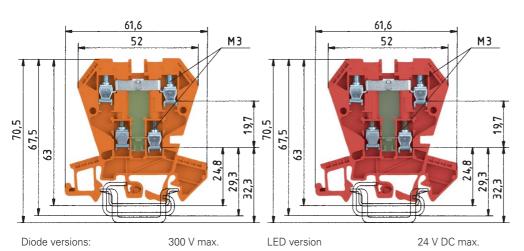
fine stranded solid $0.5 - 4 \text{ mm}^2$ $0.5 - 4 \text{ mm}^2$ 400 V/6 kV/3¹⁾ 32 No. 22-10 AWG 300 V 20 No. 20-12 AWG 300 V 10

6 mm (i) (2) (N) (N) (F) (III) (S) LR **91** * (G) ** (A) (F) (B) WK 4 E/U /VB

fine stranded solid 0.5 – 4 mm² 0.5 – 4 mm² No. 22-10 AWG 400 V/6 kV/3 32 300 V 20 No. 20-12 AWG 300 V 10 6 mm

approvals		(a) (z) (N) (W) (D) (A) (S)	D IN 277 * 60 ** ⊕ 🚱 街		5) LR F11 (1) 😂 🚱 (1) (13)
		Туре	Part no. Std. pack	Туре	Part no. Std. pack
Multi-tier block	Color: gray	WK 4 E/U	57.404.7055.0 100		
Multi-tier block	Color: black			WK 4 E/U/VB SCHWARZ	57.404.6955.1 100
Multi-tier block with inverted diod	le Color: orange				
Multi-tier block	Color: red				
Ground block	Color: green/yellow				
Accessories					
1. Mounting rail TS 35, DIN rail, 7.5	mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
Mounting rail TS 35, DIN rail 15 r	mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1
Mounting rail TS 32, G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0 1
2. End clamp with U-foot	10 mm wide	WE 1/U	Z5.523.5753.0 100	WE 1/U	Z5.523.5753.0 100
End clamp TS 35, with screw	8 mm wide	9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0 100
End clamp TS 32 with screw	7.5 mm wide	9708	Z5.522.7053.0 100	9708	Z5.522.7053.0 100
3. End plate, 1.5 mm thick	Color: gray	AP 4 E	07.311.4055.0 10	AP 4 E	07.311.4055.0 10
Partition, 1.5 mm thick	Color: gray	TW 4 E	07.311.5055.0 10	TW 4 E	07.311.5055.0 10
5. Cross connector with screws, E-	·Cu				
uninsulated for top tier	2pole	9215-2	Z7.210.3227.0 50		Z7.210.3227.0 50
	3pole	9215-3	Z7.210.3327.0 50		Z7.210.3327.0 50
	to 6pole	9215-6	Z7.210.3627.0 50		Z7.210.3627.0 50
6. Jumper comb for lower tier block	k				
angled, 1 mm thick insulation	2pole	IVBS WK 4 E-2	Z7.256.4227.0 10	IVBS WK 4 E-2	Z7.256.4227.0 10
	to 6pole	IVBS WK 4 E-6	Z7.256.4627.0 10	IVBS WK 4 E-6	Z7.256.4627.0 10
Jumper comb for lower tier block	k				
straight, 1mm thick insulated	2pole		IVB WK 4 E-2Z7.255.2227.0	10 IVB WK 4 E-2	Z7.255.2227.0 10
	to 6pole			IVB WK 4 E-6	Z7.255.2627.0 10
7. Single cover f. cross conn. with r	marking facility	IVB WK 4 E-6	Z7.255.2627.0 10		
8. Snap-in partition plate with mark	ing facility	AD VB 4/15 GELB	04.326.2953.8 10		
9. Cover strip for cross conn. over	10 blocks			AD VB 6/10 E GELB	04.342.2656.8 10
Cover strip with warning symbol	over 4 blocks	AD VB 6/10 E GELB	04.342.2656.8 10		
For more accessories see pages 160)-177				
For marking systems see pages 178	3-179 and 200-202				
1) With end plates 500 V/6 kV/3		* CL I, ZN1, AExe II	/ **CL I, ZN1, Exe II pend	ling	

Ground block Type WK 4 E SL/U



67,7

enclosed design

*) Rating to the adjacent feed-through block of the same series and size. For the current carrying capability of the mounting rail see section *facts* & DATA

WK 4 E/U...

fine stranded solid $0.5-4 \text{ mm}^2$ $0.5-4 \text{ mm}^2$ No. 22-10 AWG No. 20-12 AWG

6 mm



WK 4 E/U...

fine stranded solid $0.5-4 \text{ mm}^2$ $0.5-4 \text{ mm}^2$ No. 22-10 AWG No. 20-12 AWG

6 mm



WK 4 E SL/U

fine stranded solid $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ 500 V/6 kV/3* No. 22-12 AWG No. 22-10 AWG 6.2 mm 9 mm

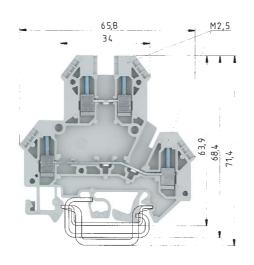
(£) **31.** * **66** € (£) (£)

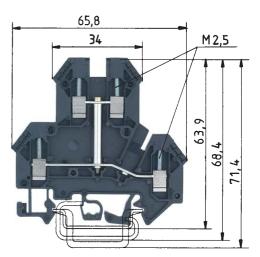
(B) (B) (N) (N) (P) (P) (S) (A A7 (B) (P) (P) (P) (P) (P) (P) (P) (P) (P) (P		(a) (b) (b) (c) (d) (d) (d) (d) (e) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	(\$) 71. * (0 ⊕ (0) (0) (0)		
Туре	Part no. Std. pack	Type Part no. Std. pack	Type Part no. Std. pack		
		57.404.8355.5			
WK 4 E/U	57.404.XX55.9	57.404.8055.9 0 1 A/1000 V			
WK 4 E/U	57.404.XX55.5	with inverted diode			
		57.404.8255.5	WK 4 E SL/U 57.504.9255.0 100		
		57.404.8155.9			
35 x 27 x 7,5 EN 60715	98.300.0000.0 1		35 x 27 x 7,5 EN 60715 98.300.0000.0 1		
35 x 24 x 15 EN 60715	98.360.0000.0 1	57.404.7255.5 LED red	35 x 24 x 15 EN 60715 98.360.0000.0 1		
9006 EN 60715 G-32	98.190.0000.0 1	57.404.8755.5 LED green	9006 EN 60715 G-32 98.190.0000.0 1		
WE 1/U	Z5.523.5753.0 100	37.404.0733.3 ELD green 0.33 W	WE 1/U Z5.523.5753.0 100		
9708/2 S 35	Z5.522.8553.0 100		9708/2 S 35 Z5.522.8553.0 100		
9708	Z5.522.7053.0 100	о <u>ф</u> 3	9708 Z5.522.7053.0 100		
AP 4 E	07.311.4055.0 10	57.404.7455.9 LED red R = 2.2 K 0.35 W			
TW 4 E	07.311.5055.0 10	0.33 VV			
		57.404.7955.5			
		57.404.8855.9 vith inverted diodes 1 A/1000 V			
IVBS WK 4 E-2	Z7.256.4227.0 10	0 ★ 1 A/1000 V			
IVBS WK 4 E-6	Z7.256.4627.0 10	57.404.8455.5 R = 6.8 K 0.6 W			
IVB WK 4 E-2	Z7.255.2227.0 10	0			
IVB WK 4 E-6	Z7.255.2627.0 10	1 A/1000 V			
		57.404.6255.9 R = 2.2 K 0.35 W			
			* CL I, ZN1, AExe II		
			. , , ,		

Multi-tier feed-through block

selos 105

field/factory wiring





WKN 2,5 E/U

WKN 2,5 E/U/VB

fine stranded solid V A
0.5 - 2.5 mm² 0.5 - 4 mm² 500 V/6 kV/3 24
No. 22-12 AWG 600 V 20/25
No. 24-12 AWG 600 V 25
5 mm 8 mm

CSA ratings
Width Wire strip length
Approvals

EN 60 947-7-1/DIN VDE 0611 T1

UL-ratings

Approvals	ring carp terigar	* 41 * 46 6 6	B	0	(§) 91. (£) (§) (§) (B)		3
		Туре	Part no. Std	. pack	Туре	Part no. Sto	I. pack
Multi-tier feed-through block	Color: gray	WKN 2,5 E/U	57.403.7055.0	100			
uper and lower feed-through tier	Color: black				WKN 2,5 E/U/VB	57.403.6955.1	100
connected							
Accessories							
1. Mounting rail TS 35, DIN rail 7.5	lmm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 1.5	mm high $L = 2 \text{ m}$	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot	10 mm wide	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw	7.5 mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. End plate	1.5 mm thick	APN 2,5 E	07.312.1755.0	10	APN 2,5 E	07.312.1755.0	10
4. Partition	1.5 mm thick	TWN 2,5 E	07.312.1855.0	10	TWN 2,5 E	07.312.1855.0	10
5. Cross connector with screws fo	r upper and lower						
feed-through tier, insulated	2pole	IVB WK 2,5 - 2	Z7.280.2227.0	10	IVB WK 2,5 - 2	Z7.280.2227.0	10
	3pole	IVB WK 2,5 - 3	Z7.280.2327.0	10	IVB WK 2,5 - 3	Z7.280.2327.0	10
	to 12pole	IVB WK 2,5 - 12	Z7.280.3227.0	10	IVB WK 2,5 - 12	Z7.280.3227.0	10
6. Single cover f. cross conn. with a	marking facility	AD VB 2,5 GELB	04.326.2053.8	10	AD VB 2,5 GELB	04.326.2053.8	10
7. Cover strip for cross conn. over	10 blocks	AD VB 5/10 GELB	04.342.0556.8	10	AD VB 5/10 GELB	04.342.0556.8	10
8. Cover strip with warning symbo	l over 4 blocks		04.343.4756.8	10		04.343.4756.8	10
9. Sanp-in partition plate		TS 2,5 GELB	07.311.2053.8	10	TS 2,5 GELB	07.311.2053.8	10

* CL I, ZN1, AExe II pending

For marking systems see pages178-183

selos

Sensor/actuator blocks 250 V with LED for 24 V selos

field/factory wiring

Wire strip length

- Compact design for sensor/actuator wiring
- Insulated jumpers eliminate redundant wiring
- The blocks are also available with integrated LED for NPN or PNP sensors
- The use of cross connectors (jumper combs), requires partitions in order to maintain the air and creepage distances.

Indicator: R = 2.2 K; 0.35 W Lamp color: green: 24 V DC

EN 60 947-7-1/DIN VDE 0611 T1

* 24 V= with LED

UL-ratings

CSA ratings

Width



53,4

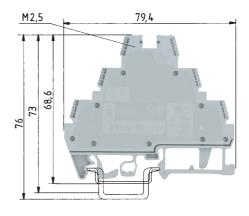




M 2,5

92

58,6





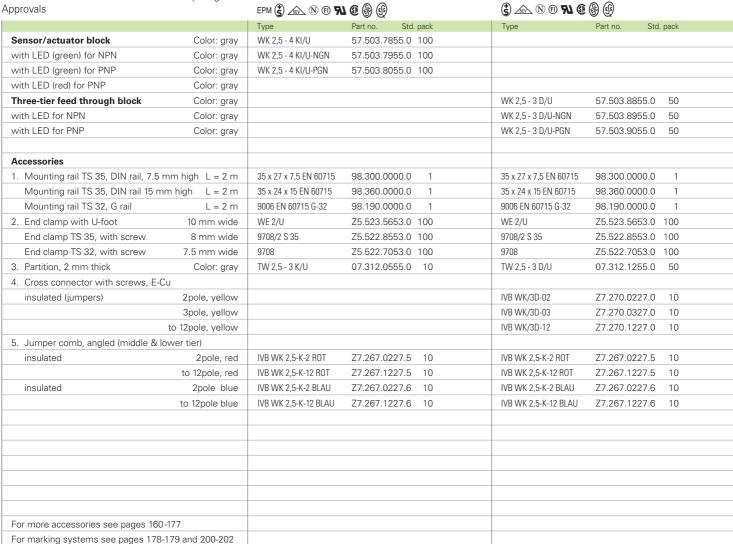


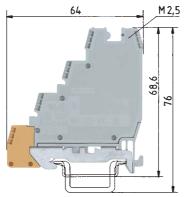
WK 2.5-4 KI/U

fine stranded solid $0.5 - 2.5 \text{ mm}^2 \ 0.5 - 4 \text{ mm}^2$ 250 V/4 kV/3*) 24 No. 22-12 AWG 300 V*) 25 300 V*) No. 22-12 AWG 25 6 mm 7 mm

WK 2.5-3 D/U

fine stranded solid $0.5 - 2.5 \text{ mm}^2 \ 0.5 - 4 \text{ mm}^2$ 400 V/6 kV/3*) 24 300 V*) No. 22-12 AWG 25 300 V*) No. 22-12 AWG 25 6 mm 7 mm







WK 2.5 - 4 KI SL-PGN WK 2.5 - 4 KI SL-PRT



Std. pack

WK 2.5 - 3 D SL-NGN



WK 2.5 - 3 D SL-PGN



Std. pack

M2,5

9,89 76



Indicator: R = 2.2 K; 0.35 W Lamp color: green: 24 V DC red: 24 V DC

the lower tier.

• The four tier terminals (signal, plus, minus, and shiedl/ground) are fully enclosed, clam shell with the ground connection snapped on

• These versions are designed only for TS 35 mounting rails due to the integrated ground

• The rated voltage for the adjacent terminal also apply to the ground terminal.

WK 2,5-4 KI/SL

fine stranded solid $0.5 - 2.5 \text{ mm}^2 \ 0.5 - 4 \text{ mm}^2$ Α 250 V/4 kV/3*) 24 300 V*) No. 22-12 AWG 25 No. 22-12 AWG 300 V*) 25 6 mm 7 mm

 $\mathsf{EPM} \textcircled{\$} \, \underline{\mathscr{E}} \, \mathbb{N} \, \mathbb{P} \, \, \mathbf{N} \, \textcircled{\$} \, \textcircled{\$} \, \textcircled{\$}$

WK 2,5-3 D/SL

fine stranded solid $0.5 - 2.5 \text{ mm}^2 \ 0.5 - 4 \text{ mm}^2$ 400 V/6 kV/3*) 24 No. 22-12 AWG 300 V*) 25 No. 22-12 AWG 300 V*) 25 6 mm 7 mm

WK 2,5 - 4 KI SL	56.503.7355.0 10	0				
WK 2,5 - 4 KI SL-NGN	56.503.7455.0 10	0				
WK 2,5 - 4 KI SL-PGN	56.503.7555.0 10	0				
WK 2,5 - 4 KI SL-PRT	56.503.7655.0 10	0				
			WK 2,5 - 3 D SL	56.503.8355.0	50	
			WK 2,5 - 3 D SL-NGN	56.503.8455.0	50	
			WK 2,5 - 3 D SL-PGN	56.503.8555.0	50	
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	
WE 2/U	Z5.523.5653.0 10	0	WE 2/U	Z5.523.5653.0	100	
9708/2 S 35	Z5.522.8553.0 10	0	9708/2 S 35	Z5.522.8553.0	100	
TW 2,5 - 3 K/U	07.312.0555.0 1	0	TW 2,5 - 3 D/U	07.312.1255.0	50	
			IVB WK/3D-02	Z7.270.0227.0	10	
			IVB WK/3D-03	Z7.270.0327.0	10	
			IVB WK/3D-12	Z7.270.1227.0	10	
IVB WK 2,5-K-2 ROT	Z7.267.0227.5 1	0	IVB WK 2,5-K-2 ROT	Z7.267.0227.5	10	
IVB WK 2,5-K-12 ROT	Z7.267.1227.5 1	0	IVB WK 2,5-K-12 ROT	Z7.267.1227.5	10	
IVB WK 2,5-K-2 BLAU	Z7.267.0227.6 1	0	IVB WK 2,5-K-2 BLAU	Z7.267.0227.6	10	
IVB WK 2,5-K-12 BLAU	Z7.267.1227.6 1	0	IVB WK 2,5-K-12 BLAU	Z7.267.1227.6	10	

Sensor/actuator terminals with top entry system Selos

field/factory wiring

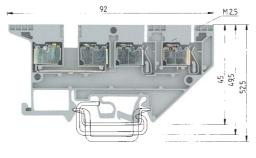
Wire strip length

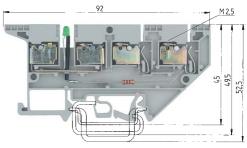
EN 60 947-7-1/DIN VDE 0611 T1

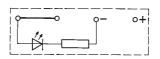
UL-ratings

CSA ratings

Width







Indicator: R = 2.2 K; 0.35 W Lamp color: green

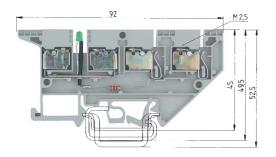
WK 2,5-4 KOI/U

fine stranded solid V A 0.5 - 2,5 mm² 0.5 - 4 mm² 400 V/6 kV/3 16*) No. 22-12 AWG 300 V 20/30 No. 22-12 AWG 300 V 25 5 mm 10 mm

WK 2,5-4 KOI/U-NGN

fine stranded solid	V	Α
$0.5 - 2.5 \text{mm}^2 0.5 - 4 \text{mm}^2$	24 DC	16* ⁾
No. 22-12 AWG	24 V	20/30
No. 22-12 AWG	24 V	25
5 mm		10 mm

Approvals	(E) (B) (B) (A)		(a) (b) (b) (c) (c) (c) (c) (d)	3	
	Туре	Part no. Std. pack	Туре	Part no. Std.	pack
Sensor/actuator terminal Color: g	ray WK 2,5-4 KOI/U	57.503.7055.0 50			
Sensor/actuator terminal W/ LED (NPN) Color: g	ray		WK 2,5-4 KOI/U-NGN	57.503.7155.0	50
Accessories					
1. Mounting rail TS 35, DIN rail 7.5mm high $L = 2$	2 m 35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 1.5mm high $L = 2$	2 m 35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail $L = 2$	2 m 9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot 10 mm w	ide WE 1/U	Z5.523.5753.0 100	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw 8 mm w	ide 9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw 7.5 mm w	ide 9708	Z5.522.7053.0 100	9708	Z5.522.7053.0	100
3. End plate 1.5 mm th	ick AP 2,5-4 K0	07.310.9355.0 50	AP 2,5-4 KO	07.310.9355.0	50
4. Partition plate 1.5 mm th	ick TW 2,5-4 K0	07.310.9455.0 50	TW 2,5-4 KO	07.310.9455.0	50
5. Cross connector for voltage supply					
uninsulated 2p	ole VB WK 2,5 KO-2	07.257.0227.0 100	VB WK 2,5 KO-2	07.257.0227.0	100
3р	ole VB WK 2,5 KO-3	07.257.0327.0 100	VB WK 2,5 KO-3	07.257.0327.0	100
to 20p	ole VB WK 2,5 KO-20	07.257.2027.0 50	VB WK 2,5 KO-20	07.257.2027.0	50
6. Jumper bar for signal,					
uninsulated 2p	ole VB WK 2,5-2	Z7.280.0227.0 10	VB WK 2,5-2	Z7.280.0227.0	10
3р	ole VB WK 2,5-3	Z7.280.0327.0 10	VB WK 2,5 3	Z7.280.0327.0	10
to 6p	ole VB WK 2,5-6	Z7.280.0627.0 10	VB WK 2,5-6	Z7.280.0627.0	10
7. Single cover f. cross conn. with marking facility	AD VB 2,5 GELB	04.326.2053.8 10	AD VB 2,5 GELB	04.326.2053.8	10
8. Cover strip with test hole over 10 blocks	AD VB 5/10 P GELB	04.342.3556.8 10	AD VB 5/10 P GELB	04.342.3556.8	10
9. Cover strip for cross connectors over 10 blocks	AD VB 5/10	04.342.0556.0 10	AD VB 5/10	04.342.0556.0	10
10.Partition plate	TS 2,5 GELB	07.311.2053.8 10	TS 2,5 GELB	07.311.2053.8	10
11.Tear-off marking strip, red, marked "+"	9705 A/5/10 B + ROT	04.855.0253.5 25	9705 A/5/10 B + ROT	04.855.0253.5	25
12.Tear-off marking strip, blue, marked "-"	9705 A/5/10 B - BLAU	04.855.0353.6 25	9705 A/5/10 B - BLAU	04.855.0353.6	25
For marking systems see pages 178-179 and 200-20	2				
*) feed-through 16 A					





Indicator: R = 2.2 K; 0.35 W Lamp color: green

Sensor/actuator blocks with TOP connection and universal foot for the connection of three wire sensors. Space-saving design which distributes the plus-minus lines

via pluggable, multi-pole jumpers.

You have to consider the maximum current carrying load of the cross connector of 32A: for the initiator blocks per infeed block, and for the current load per initiator. Benefits:

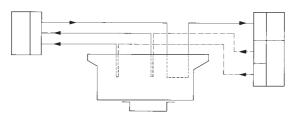
- Plus-minus distribution via jumpering saves space and wiring material
- Only one feed-through block is required for the signal which guarantees a clear wiring
- One block per initiator guarantees a clear assignment of
- the power circuits
 Blocks with TOP connection guarantee clear wire connections
- The blocks of only 5mm width save mounting space Trouble shooting is easy as the switching status is indicated via LEDs
- Ample marking space

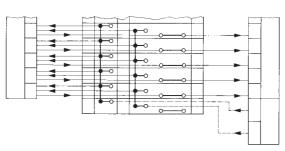
WK 2,5-4 KOI/U-PGN

fine stranded solid	V	Α
$0.5 - 2.5 \text{ mm}^2 0.5 - 4 \text{ mm}^2$	24 DC	16* ⁾
No. 22-12 AWG	24 V	20/30
No. 22-12 AWG	24 V	25
5 mm		10 mm



NK 2,5-4 KOI/U-PGN	57.503.72	255.0 50	
AP 2,5-4 KO	07.310.93	355.0 50	
TW 2,5-4 KO	07.310.94	155.0 50	
VB WK 2,5 KO-2	07.257.02	227.0 100	
VB WK 2,5 KO-3	07.257.03	327.0 100	
VB WK 2,5 KO-20	07.257.20	27.0 50	
VB WK 2,5-2	Z7.280.02	227.0 10	
VB WK 2,5 3	Z7.280.03	327.0 10	
VB WK 2,5-6	Z7.280.06	627.0 10	
AD VB 2,5 GELB	04.326.20	053.8 10	
AD VB 5/10 P GELB	04.342.35	556.8 10	
AD VB 5/10	04.342.05	556.0 10	
TS 2,5 GELB	07.311.20	053.8 10	
9705 A/5/10 B + ROT	04.855.02	253.5 25	
9705 A/5/10 B - BLAU	04.855.03	353.6 25	





Disconnect blocks with U-foot, type WK selos

Fuse plug:

Nominal voltage:

Nominal current accord. to:

250 V ~ VDE 0820 T2/IEC 257 at a power loss of 1.5 W. - 6.3 A for single blocks – 4 A for blocks mounted adjacent to each other

Indicator (24 V):

Lamp color: red

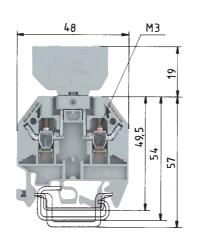
Current consumed 10.3 mA

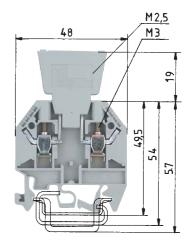
Indicator (110-220 V): Lamp color: red

EN 60 947-7-1/DIN VDE 0611 Teil 1

Current input: 0.3 mA

*) Voltage and current are determined by the built-in LED and the fuse inserted into the fuse holder





The current carrying load depends on the built-in component. Temporary peak voltage 1000 V. Pole assignment Anode Cathode ¹⁾ of the diode: Cathode Anode²⁾

WK 4 TKG... SIST

EN 60 127-6/DIN VDE 0820 T6 field/factory wiring

UL-ratings CSA ratings

Width Wire strip length

fine stranded solid V $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ No. 22-10 AWG 800 V/8 kV/3*) 6.3*) 300 V*) 10 No. 20-10 AWG 250 V*) 6.3 9 mm

6 mm

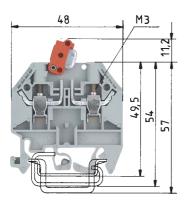
WK 4 TKG... DIST

fine stranded solid V $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ 800 V/8 kV/3 No. 22-10 AWG 300 V 10 No. 20-10 AWG 250 V 6.3 6 mm 9 mm

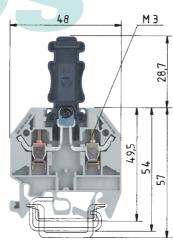
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pprovals	(1) (1) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4			(1) (1) 10 11 (1) (2) (2) (3) (4) (3)			
		Туре	Part no. Std.	pack	Type	Part no. Sto	I. pack
Disconnect block	Color: gray	WK 4 TKG/U	57.504.4055.0	100	WK 4 TKG/U	57.504.4055.0	100
Fuse holder for 5 x 20 fuse	Color: blue	Si ST	Z1.299.4055.0	10			
Fuse holder with indicator (24 V)	Color: gray	Si ST LED	Z1.299.4155.0	10			
Fuse holder with indicator (110-220 V	/) Color: gray	Si ST GL	Z1.299.4255.0	10			
Diode plug, without contacts $J_{max} =$	10 A Color: gray				DIST	Z1.299.3055.0	10
Diode plug - diode $J_{max} =$	11 A Color: gray				DIST-1 N 4007-1 ¹⁾	Z1.299.3155.0	10
Diode plug - diode $J_{max} =$	11 A Color: gray				DIST-1 N 4007-2 ²⁾	Z1.299.3355.0	10
Diode plug with jumper $J_{max} =$	10 A Color: gray				DIST-D	Z1.299.3255.0	10
Knife edge disconnect block	Color: gray						
	Color: blue						
- with 2 test bolts	Color: gray						
Invertible plug disconnect block							
m. Inver. plug w/o test bolt	Color: gray						
 with test bolts left and right 	Color: gray						
Feed through block	Color: gray						
Accessories							
1. Mounting rail TS 35, DIN rail, 7.5 r	mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15 m	m high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot	10 mm wide	WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
End clamp TS 35, with screw	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw	7.5 mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. End plate, 1.5 mm thick	Color: gray	AP 4 TK	07.311.6155.0	10	AP 4 TK	07.311.6155.0	10
	Color: blue						
4. Partition, 1.5 mm thick	Color: gray	TW 4 TK	07.311.8155.0	10	TW 4 TK	07.311.8155.0	10
	Color: blue						
5. Jumper comb	insulated 2pole	IVB 1 WK 42	Z7.255.4227.0	10	IVB 1 WK 42	Z7.255.4227.0	10
	to 6pole	IVB 1 WK 46	Z7.255.4627.0	10	IVB 1 WK 46	Z7.255.4627.0	10
6. Cover f. cross conn. with marking	facility						
7. Snap-in partition plate with markin	ng facility						
For marking systems see pages 178-	179 and 200-202						

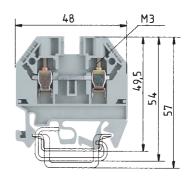




The disconnecting knife in these WK versions swing in and out on a pivot point. The distinctive color of the disconnecting lever signals the open state. The terminals can be connected with the lever open or closed. Designs with a different number and arrangement of test sockets permit safe measurements using the test plug.



The plug in disconnect terminal has the same profile as the modular terminal WK4. The isolating connector is detachable and can be fitted as a dummy plug. This signals the open state. Designs with different numbers of test sockets permit safe measurements using the test plug.



same dimensions as types WK 4 TKG/U and WK 4/TKM/U for symetry across the rail

WK 4/TKM

fine stranded solid V A 0.5 - 4 mm² 0.5 - 6 mm² 800 V/8 kV/3*) 20 No. 22-10 AWG 600 V 20 No. 22-10 AWG 600 V*) 20 6 mm 9 mm

WK 4 TKG-TRST/U

fine stranded	solid	V	Δ
$0.5 - 4 \text{ mm}^2$	$0.5 - 6 \text{ mm}^2$	800 V/8 kV/3*)	20
No. 22-10 AV	٧G	300 V	10
No. 22-10 AV	٧G	600 V*)	20
6 mm		9	mm
SEV N F	<i>⊕</i>		

WK 4 TKS D/U

fine stranded	solid	V	Α
$0.5 - 4 \text{ mm}^2$	$0.5 - 6 \text{ mm}^2$	800 V/8 kV/3	32
No. 22-10 AW	'G	300 V	25
No. 20-10 AW	'G	600 V	20
6 mm			9 mm
	a .		

S ZEVZ (1) (1) 11 (1) (2) (3) (3)		(S) ZSEV (N) (F) 771 (G)	S ZEEN (N) (F) MI (U) (C)			(S) Zsev (H) 71 (U			
Туре	Part no. Std. pack Type Part no. Std. pack				Туре	Part no. S	td. pack		
WK 4/TKM/U	57.504.2055.0 100								
WK 4/TKM/U BLAU	57.504.2055.6 100								
WK 4/TKM/P3/U	57.504.2355.0 100								
		WK 4 TKG-TRST/U	57.504.4555.0	100					
		WK 4 TKG-TRST P3/U	57.504.4855.0	100					
					WK 4 TKS D/U	57.504.4455.0) 100		
					**** * *****	07.001.1100.0			
35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 6071	598.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0) 1		
35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715		1	35 x 24 x 15 EN 60715	98.360.0000.0			
9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32		1	9006 EN 60715 G-32	98.190.0000.0			
WE 2/U	Z5.523.5653.0 100	WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0			
9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0		9708/2 S 35	Z5.522.8553.0			
9708	Z5.522.7053.0 100	9708	Z5.522.7053.0		9708	Z5.522.7053.0			
AP 4 TK	07.311.6155.0 10	AP 4 TK	07.311.6155.0	10	AP 4 TK	07.311.6155.0			
AP 4 TK BLAU	07.311.6155.6 10								
TW 4 TK	07.311.8155.0 10	TW 4 TK	07.311.8155.0	10	TW 4 TK	07.311.8155.0) 10		
TW 4 TK BLAU	07.311.8155.6		21.201.121.30.0			27.01.101.00.0			
IVB 1 WK 42	Z7.255.4227.0 10	IVB 1 WK 42	Z7.255.4227.0	10	IVB 1 WK 42	Z7.255.4227.0) 10		
IVB 1 WK 46	Z7.255.4627.0 10	IVB 1 WK 46	Z7.255.4627.0	10	IVB 1 WK 46	Z7.255.4627.0	-		
11D 1 11K T U	27.200.4027.0 10	100 1 VVN 40	27.200.4027.0	10	AD VB 4 GELB	04.326.2153.8			
					TS 4 GELB	07.311.2153.8			
					10 7 ULLD	07.011.2100.0	, 10		
*) Version with test b	olt: CSV: 300 V	*) Version with test bo	I+- CSA- 300 V						
EN 60 947-7-1/DIN VE	DE 0611 T1 - 690 V/6 kV/3	EN 60 947-7-1/DIN VD	E 0611 T1 - 690 V/6	kV/3					
Test bolt can be loade	a with I A	Test bolt can be loaded	I WITH T A						

Fuse blocks with U-foot, type WK selos

Fuse terminals of this type have a hinged fuse carrier. This takes the mini 5 x 20, 5 x 25, and 5 x 30 mm (width of terminal 8mm) or 6.3 x 32 mm (width 10 mm). The swivel carrier has locking points both when open and closed and can be sealed. All terminals are available in two versions - with or without red LED indicator

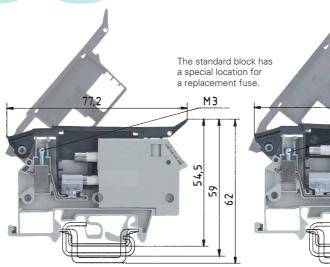
Rated current in accordance with VDE 0820 T2/IEC 257

- $^{1)}$ up to a power loss of 1.5 W
- ²⁾ up to a power loss of 2.5 W

EN 60 947-7-1, EN 60 127-6

UL-ratings CSA ratings

 $^{\star)}$ Voltage and current are determined by the LED installed and fuse used.



for 5 mm fuses

for 1/4 x 1 1/4 fuses

WK 4 THSI 5... /U

fine stranded solid $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ 800 V/8 kV/3*) 6.3^{1} No. 22-10 AWG 600 V*) 15 No. 22-10 AWG 600 V*) 6,3 8 mm 8 mm

WK 4 THSI 6,3... /U

Jumper combs available upon request

fine stranded	solid	V	Α
$0.5 - 4 \text{ mm}^2$	$0.5 - 6 \text{ mm}^2$	800 V/8 kV/3*)	10^{2}
No. 22-10 AW	/G	600 V*)	15
No. 22-10 AW	/G	600 V*)	10
10 mm		8	mm
A A A A			

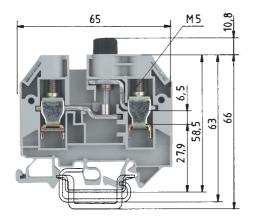
М3

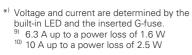
29

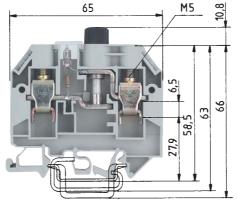
62

JSA ratings				No. 22-10 AVVG	6	000 V ^/	6,3	No. 22-10 AVVG	C	000 V ^/	10
Nidth		Wire strip	o length	8 mm	- 0 0		8 mm	10 mm			8 mm
Approvals				(\$) <u>/</u> (N) (P) % (1)	@ 🚱 🤨			(3) AR (1) (1) (2)	i 6		
				Туре	Part no. Std	d. pack		Туре	Part no. Sto	d. pack	
Fuse block	Color: gray			WK 4/THSi 5 U	57.904.5355.0	50		WK 4/THSi 6,3 U	57.904.6355.0	50	
- with LED	5 - 12 V ~/ c	current consumed.	2.3-7 mA	WK 4/THSi 5 LED 12 U	57.904.5455.0	50		WK 4/THSi 6,3 LED 12 U	57.904.6455.0	50	
- with LED	12 - 24 V ~/ c	current consumed.	2.8-6.2 mA	WK 4/THSi 5 LED 24 U	57.904.5555.0	50		WK 4/THSi 6,3 LED 24 U	57.904.6555.0	50	
- with LED	24 - 60 V ~/ c	current consumed.	1.5-4 mA	WK 4/THSi 5 LED 60 U	57.904.5655.0	50		WK 4/THSi 6,3 LED 60 U	57.904.6655.0	50	
– with lamp	110 -250 V ~/ c	current consumed. (0.13 – 0.55 mA	WK 4/THSi 5 GL 250 U	57.904.5755.0	50		WK 4/THSi 6,3 GL 250 U	57.904.6755.0	50	
– with lamp	380 -500 V ~/ c	current consumed.	0.2-0.3 mA	WK 4/THSi 5 GL 500 U	57.904.5855.0	50		WK 4/THSi 6,3 GL 500 U	57.904.6855.0	50	
Fuse block			Color: gray								
- with screw ca	ap A DIN 41674 for G	G-fuses DIN 41571, 25	60 V, 5 x 20 mm								
- with screw ca	ap B DIN 41674 for G	fuses DIN 41576, 25	60 V, 5 x 25 mm								
- with screw ca	ap A DIN 41674 for G	G-fuses , 500 V, 5 x 30) mm								
- with screw ca	ap for G-fuses, 500 V	/, ¹ / ₄ × 1 ¹ / ₄ " (6.3 × 32 i	mm)								
Feed-through b	olock, same dimensio	ons as fuse block	Color: gray								
Accessories	S										
1. Mounting	g rail TS 35, DIN	rail, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1		35 x 27 x 7,5 EN 60715	98.300.0000.0	1	
Mounting	g rail TS 35, DIN	rail 15mm high	L = 2 m	35 x 24 x15 EN 60715	98.360.0000.0	1		35 x 24 x 15 EN 60715	98.360.0000.0	1	
Mounting	g rail TS 32, G rai	il	L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1		9006 EN 60715 G-32	98.190.0000.0	1	
2. End clam	p with U-foot	10) mm wide	WE 1/U	Z5.523.5753.0	100		WE 1/U	Z5.523.5753.0	100	
End clam	np TS 35, with sc	rew 8	3 mm wide	9708/2 S 35	Z5.522.8553.0	100		9708/2 S 35	Z5.522.8553.0	100	
End clam	np TS 32, with sc	rew 7.5	mm wide	9708	Z5.522.7053.0	100		9708	Z5.522.7053.0	100	
3. End plate	e, 1.5 mm thick		Color: gray								
4. Cross co	nnector with scre	ews, E-Cu						Jumper combs availa	ble on request		
uninsulat	ed		2pole								
			3pole								
			to 6pole								
5. Transpar	ent cover (for 1 b	olock)									
6. Connecti	ng strip for gang	ing levers togeth	er red	VST WK4 THSI	05.563.8053.0	50		VST WK4 THSI	05.563.8053.0	50	

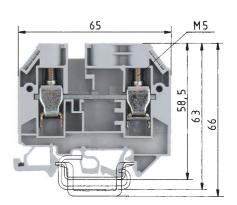
For marking systems see pages 178-179 and 200-202







- *) Voltage and current are determined by the built-in indicator and the inserted G-fuse.
 7) 6.3 A up to a power loss of 1.6 W
 8) 10 A up to a power loss of 2.5 W



WK 10/SI ... /U

fine stranded solid/stranded V $1 - 10 \text{ mm}^2$ $1 - 16 \text{ mm}^2$ 500 V/6 kV/3*) 10*) 600 V*) No. 22-6 AWG 15 600 V*) max. 15 No. 16-6 AWG 13 mm

WK 10/SI ... /U with indicator

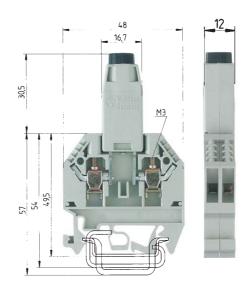
fine stranded solid/stranded V $1 - 10 \text{ mm}^2$ $1 - 16 \text{ mm}^2$ 500 V/6 kV/3* max 10*) 600 V*) 15 No. 22-6 AWG No. 16-6 AWG 600 V*) max. 15 12 mm (**\$**)¹⁾ (**D**)²⁾ (N) ³⁾ (**Q**) ⁴⁾ (A) ⁵⁾ (**Q**) ⁶⁾ 13 mm

WK 10/SI U D

fine stranded solid/stranded V 1 – 10 mm² 1 – 16 mm² 500 V/6 kV/3 57 No. 22-6 AWG 600 V 50 No. 16-6 AWG 600 V 65 12 mm 13 mm

(5)" (D) "(N) "(N) "(L)	R () ()	(5) (D (N) (G (⊕ 🚱					
Туре	Part no. Std. pack	Туре	Part no.	Std. pack		Туре	Part no.	Std. pack
WK 10/Si U 5 x 20 ^{2) - 8) 9) 1}	⁽⁰⁾ 57.910.5055.0 50	WK10/Si U 5 x 20M, NGL ²⁾⁻⁶	57.910.5	455.0 50				
WK 10/Si U 5 x 25 ^{2) - 8) 9) 1}		WK 10/Si U 5 x 20M, GLB ²⁾⁻⁶						
WK 10/Si U 5 x 30 ^{2) - 8) 10)}		WK 10/Si U 6,3 x 32M, NGL ¹⁾						
WK 10/Si U 6,3 x 32 ¹⁾⁻⁸⁾¹		WK 10/Si U 6,3 x 32M, GLB ¹⁾						
VVIC 10/ 01 0 0,0 X 02	07.010.0000.0	TITLIO, O. O. O,O XOZINI, OZB	07.0.0.0			WK 10/Si U D	57.910.4955	5.0 50
							27.0.0.7000	55
35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0	000.0 1		35 x 27 x 7,5 EN 60715	98.300.0000	0.0 1
35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0			35 x 24 x 15 EN 60715	98.360.0000	
9006 EN 60715 G-32	98.190.0000.0	9006 EN 60715 G-32	98.190.0			9006 EN 60715 G-32	98.190.0000	
WE 1/U	Z5.523.5753.0 100	WE 1/U		753.0 100		WE 1/U	Z5.523.5753	
9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35		553.0 100		9708/2 S 35	Z5.523.3730 Z5.522.8553	
9708	Z5.522.8553.0 100 Z5.522.7053.0 100	9708		053.0 100		9708	Z5.522.7053	
		AP 10/Si	07.311.4			AP 10/Si	07.311.4155	
AP 10/Si	07.311.4155.0 10	AF 10/31	07.311.4	155.0 10		AF 10/31	07.311.4150	5.0 10
V/D VA/IV 40 /0: 0	77,007,0007,0, 40	V/D VA/I/ 40 /0: 0	77.007.0	007.0 10		V/D VA/IV 10 /0: 0	77 007 000	7.0 10
VB WK 10/Si-2	Z7.287.0227.0 10	VB WK 10/Si-2	Z7.287.0			VB WK 10/Si-2	Z7.287.0227	
VB WK 10/Si-3	Z7.287.0327.0 10	VB WK 10/Si-3	Z7.287.0			VB WK 10/Si-3	Z7.287.0327	
VB WK 10/Si-6	Z7.287.0627.0 10	VB WK 10/Si-6	Z7.287.0			VB WK 10/Si-6	Z7.287.0627	
	04.312.2056.0 100			056.0 100			04.312.2056	5.0 100
		57.910.5453.0	VDE	CSA	UL			
			10 - 250 V ~	500 V	150 V			
		57.910.5853.0	10 - 0.0 IIIA					
		Indicator Current consumed: 24	28 V ~	28 V	28 V			
		57.910.5753.0	111/2					
			10 - 500 V ~ 16 - 0.8 mA ⁹⁾	500 V	150 V			
C		57.910.6153.0	20 \/ ~.	28 V	28 V			
	m thermoset type 131 and silver-	Indicator Current consumed: 24	mA ¹⁰⁾	20 V	20 V			
plated brass		Lamp color of the indi		yellow				

Fuse blocks with U-foot, type WK SELOS



*) Voltage and current are determined by the fuse used.

Rated current in accordance to VDE 0820 T2/EN 60 127-2, up to a power loss of 1.6 W

EN 60 947-7-1, EN 60 127-6 UL-ratings

Width Wire strip length Approvals

CSA ratings

WK 4/Si-D/U 5 x 25

fine stranded solid V A 0.5 – 4 mm² 0.5 – 6 mm² 800 V/8 kV/3* 6.3*

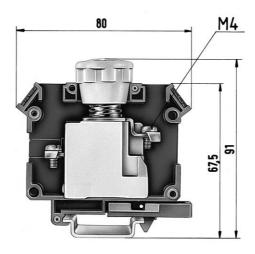
No. 20-10 AWG 250 V 10 12 mm 9 mm

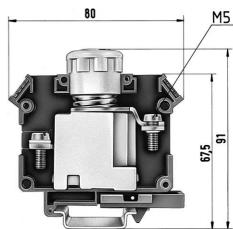
 Fused feed through terminal block (G-screw cap B DIN 41674, 5 x 25 mm - 250 V/6.3 - Fused feed through terminal block (G-screw cap A DIN 41674, 5 x 20 mm - 250 V/6.3 Accessories Mounting rail TS 35, DIN rail, 7.5 mm high L 		WK 4/Si-D/U 5 x 25 WK 4/Si-D/U 5 x 20	57.504.1655.0 57.504.1755.0	50
(G-screw cap B DIN 41674, 5 x 25 mm – 250 V/6.3 – Fused feed through terminal block (G-screw cap A DIN 41674, 5 x 20 mm – 250 V/6.3 Accessories 1. Mounting rail TS 35, DIN rail, 7.5 mm high L				
 Fused feed through terminal block (G-screw cap A DIN 41674, 5 x 20 mm – 250 V/6.3 Accessories 1. Mounting rail TS 35, DIN rail, 7.5 mm high L 				
(G-screw cap A DIN 41674, 5×20 mm $- 250$ V/6.3 Accessories 1. Mounting rail TS 35, DIN rail, 7.5 mm high L	3 A)	WK 4/Si-D/U 5 x 20	57.504.1755.0	
Accessories 1. Mounting rail TS 35, DIN rail, 7.5 mm high L	3 A)	WK 4/Si-D/U 5 x 20	57.504.1755.0	=0
1. Mounting rail TS 35, DIN rail, 7.5 mm high L				50
1. Mounting rail TS 35, DIN rail, 7.5 mm high L				
Mounting rail TS 35, DIN rail 1.5mm high L	= 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
	= 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32, G rail		9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot 10 mm	n wide	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw 8 mm	n wide	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw 7.5 mm	n wide	9780	Z5.522.7053.0	100
3. End plate 1.5 mm	n wide	AP 4 TK	07.311.6155.0	10
For marking systems see pages 178-179 and 200-	-202			

selos

Fuse block for NEOZED® mounting on TS 35 and TS 32 rail

selos





9700 B/30 Si E 14/S 35

 $1.5 - 4 \text{ mm}^2$ $1.5 - 4 \text{ mm}^2$

fine stranded solid

2-16 A 9700 B/30 Si E 18/S 35

fine stranded solid/stranded

 $1.5 - 25 \text{ mm}^2$ $1.5 - 25 \text{ mm}^2$

2-63 A

63*⁾

12 mm

DIN VDE 0636 **UL-ratings**

CSA ratings

Width

Wire strip length Approvals

30 mm

10 mm

16*)

30 mm

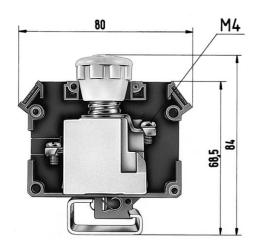
400 V ~*)

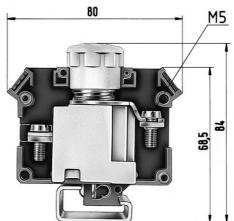
400 V ~*)

Fuse block Color: gray complete with closed insulating housing 9700 B/30 Si F 14/S 35 56.904.4055.0 9700 B/30 Si F 18/S 35 56.925.4055.0 Accessories 1. Mounting rail TS 35, DIN rail, 7.5 mm high L = 2 m35 x 27 x 7,5 EN 60715 98.300.0000.0 35 x 27 x 7,5 EN 60715 98.300.0000.0 Mounting rail TS 35, DIN rail 1.5mm high 35 x 24 x 15 EN 60715 98.360.0000.0 35 x 24 x 15 EN 60715 98.360.0000.0 Mounting rail TS 32, G rail 2. End clamp with U-foot WE 1/U 10 mm wide WE 1/U Z5.523.5753.0 100 Z5.523.5753.0 100 End clamp TS 35, with screw 8 mm wide 9708/2 S 35 Z5.522.8553.0 100 9708/2 S 35 Z5.522.8553.0 100 End clamp TS 32, with screw 7.5 mm wide 3. NEOZED® adapter sleeve 2 A - pink 05.595.9200.0 05.595.5900.0 4 A - brown 05.595.9300.0 05.595.6000.0 50 6 A - green 05.595.9400.0 05.595.6100.0 50 10 A - red 05.595.9500.0 05.595.6200.0 50 05.595.6300.0 16 A - gray 50 20 A - blue 05.595.6400.0 50 25 A - yellow 05.595.6500.0 50 35 A - black 05.595.6600.0 50 50 A - white 05.595.6700.0 50 04.326.1053.0 100 04.326.1053.0 100 4. Cover cap 5. Jumper comb 07.250.3027.0 6pole uninsulated10pole 07.250.3127.0 6. Special retaining clip 05.549.0500.0 For marking systems see pages 178-179 and 200-202

NEOZED® = registered trademark of Siemens AG

^{*)} Current and voltage are determined by the fuse





9700 B/30 Si E 14/S 32

2-16 A 9700 B/30 Si E 18/S 32

2-63 A

fine stranded solid $1.5 - 4 \text{ mm}^2$ $1.5 - 4 \text{ mm}^2$

V 400 V ~*) 16*)

fine stranded solid/stranded fine stranded solid/stranded V A $1.5-25~\text{mm}^2$ $1.5-25~\text{mm}^2$ $400~\text{V}~\text{*}^\text{*}$ $63^\text{*})$

V

30 mm 10 mm 30 mm 12 mm Type Part no. Std. pack Type 9700 B/30 Si E 14/S 35 54.904.4055.0 20 9700 B/30 Si E 18/S 32 54.925.4055.0 20 9006 EN 60715 G-32 98.190.0000.0 1 9006 EN 60715 G-32 98.360.0000.0 1 WE 1/U Z5.523.5753.0 100 WE 1/U Z5.523.5753.0 100 9780 Z5.522.7053.0 100 Z5.522.7053.0 100 05.595.9200.0 50 05.595.5900.0 50 05.595.6000.0 50 05.595.9300.0 50 05.595.9400.0 50 05.595.6100.0 50 05.595.9500.0 50 05.595.6200.0 50 05.595.6300.0 50 05.595.6400.0 50 05.595.6500.0 50 05.595.6600.0 50 05.595.6700.0 50 04.326.1053.0 100 04.326.1053.0 100 07.250.3027.0 25 07.250.3127.0 05.549.0500.0

Compensating terminals with trimming potentiometer and as a potential divider / U-foot

selos

The compensating terminal is available from10 to 50 Ohms. The 12 mm width has two clamping points for connectring the adjustable resistance and two clamping points for connecting the return conductor. A marking facility is provided for each clamping point. Switch symbols on the insulating housing identify the connections and the direction of rotation for the adjustable resistance. The device operates with a linear characteristic. The fine spread of the main spindle enables the desired resistance value to be set accurately. Insulating housing with snap on end section.

Electrical specifications for the compensating terminal.

 $\begin{array}{lll} \mbox{Resistor range:} & 0.25~\Omega \mbox{ to } 100~\Omega \\ \mbox{Resistor tolerance:} & \pm~10\% \\ \mbox{Resistor range:} & 100~\Omega \mbox{ to } 50~k\Omega \\ \mbox{Resistor tolerance} & \pm~20\% \\ \mbox{Limited continuous resistance value:} \end{array}$

0.75 W to 70 °C

Max. load: 100 mA Temperature coefficient: 0 to +500 ppm/°C

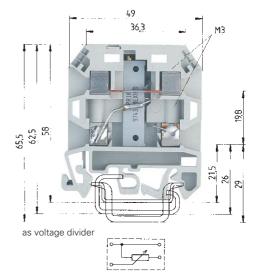
Max. operating voltage: 300 V

EN 60 947-7-1/DIN VDE 0611 T1

UL ratings

9785 U/...

fine stranded solid V 0.5 – 2.5 mm² 0.5 – 2.5 mm² see the description



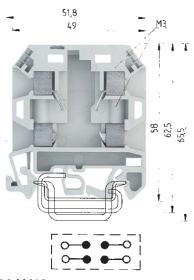
9785 U/... - SPT

fine stranded solid V A $0.5-2.5 \text{ mm}^2 \text{ see the description}$

CSA ratings
Width Wire strip length 12 mm 9 mm 12 mm 9 mm

pprovals								
			Туре	Part no. Std.	pack	Туре	Part no. Std	. pack
Compensating terminal	Color: gr	ray 10 Ω	9785 U/10 Ω	57.904.0055.0	50	9785 U/10 Ω-SPT	57.904.3955.0	50
with potentiometer		20 Ω	9785 U/20 Ω	57.904.0155.0	50	9785 U/20 Ω-SPT	57.904.4155.0	50
		50 Ω	9785 U/50 Ω	57.904.0255.0	50	9785 U/50 Ω-SPT	57.904.4255.0	50
		100 Ω	9785 U/100 Ω	57.904.0355.0	50	9785 U/100 Ω-SPT	57.904.4355.0	50
		200 Ω	9785 U/200 Ω	57.904.0455.0	50	9785 U/200 Ω-SPT	57.904.4455.0	50
		510 Ω	9785 U/500 Ω	57.904.0555.0	50	9785 U/500 Ω-SPT	57.904.4555.0	50
		1 kΩ	9785 U/1 kΩ	57.904.0655.0	50	9785 U/1 kΩ-SPT	57.904.4655.0	50
		2 kΩ	9785 U/2 kΩ	57.904.0755.0	50	9785 U/2 kΩ-SPT	57.904.4755.0	50
		5 kΩ	9785 U/5 kΩ	57.904.0855.0	50	9785 U/5 kΩ-SPT	57.904.4855.0	50
		10 kΩ	9785 U/10 kΩ	57.904.0955.0	50	9785 U/10 kΩ-SPT	57.904.4955.0	50
		20 kΩ	9785 U/20 kΩ	57.904.1055.0	50	9785 U/20 kΩ-SPT	57.904.5055.0	50
		50 kΩ	9785 U/50 kΩ	57.904.1155.0	50	9785 U/50 kΩ-SPT	57.904.5155.0	50
Diode terminal								
Accessories								
1. Mounting rail TS 35, DIN rail 7.	.5mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 1.	5mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32	G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot	10 :	mm wide	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw	8	mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw	7.5 :	mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. Jumper comb								
uninsulated		2pole	VB 9786-2	07.253.0227.0	50	VB 9786-2	07.253.0227.0	50
		3pole	VB 9786-3	07.253.0327.0	50	VB 9786-3	07.253.0327.0	50
		to 6pole	VB 9786-6	07.253.0627.0	50	VB 9786-6	07.253.0627.0	50
For more accessories see pages 1	160-177							
For marking systems see pages 1	78-179 and 2	200-202						





The diode terminal consists of an insulating housing with snap-on end section. It has four screw terminals with four marking points. Solder tabs inside the screw terminals are available to connect diodes or other components.

*) Current and voltage are determined by the electronic component.

Insulating housing: Polyamide 66/6,

tracking resistant

Clamping body and screws: Nickel-plated copper alloy

9786 U/12

fine stranded solid V A $0.5-2.5~\text{mm}^2$ $0.5-2.5~\text{mm}^2$ $800~\text{V/8 kV/3*}^{\dagger}$ 24^{**}

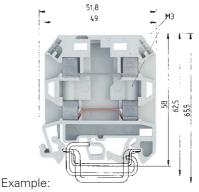
No. 22-14 AWG 300 V 6 12 mm 9 mm

Туре	Part no.	Std. pack	
2700 11/40			
9786 U/12	57.904.20	55.0 50	
/D 0700 0	07.050.00	107.0 FC	
VB 9786-2	07.253.02		
/B 9786-3	07.253.03		
VB 9786-6	07.253.06	27.0 50	



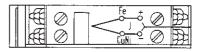
Field of application: In thermocouple measurement circuits, thermocouples are extended using compensating lines. Compensating lines are made of materials which have the same thermal emf values as the thermocouples up to 200 °C. In the thermocouple terminals, the combined metals are made up of the same materials as the compensating lines in accordance with DIN 43713 and DIN 43714 in order to ensure that no corrupting thermal electromotice forces are produced and the basic values in accordance with DIN IED 584 are maintained at the compensating line.

The thermocouple terminal consists of an insulating housing and a snap-in end section.



Fe/constantan

Fe/CuNi 44



fully enclosed design

*) to the adjacent terminal block type 9786 U/...

9786 U/TSK...

fine stranded solid 0.5 - 2,5 mm² 0.5 - 2.5 mm² 800 V/8 kV/3*)

EN 60 947-7-1/DIN VDE 0611 T1 **UL-ratings** CSA ratings

/idth oprovals	Wire strip	length	12 mm				9 mi
<u>.</u>			Type	Part no.	Std.	pack	
Thermocouple terminal	Тур Т-С	u/CuNi 44	9786 U/TSK Cu-CuNi	57.904.73	55.0	50	
Thermocouple terminal	Typ E-NiC	Cr/CuNi 44	9786 U/TSK NiCr-CuNi	57.904.70	55.0	50	
Thermocouple terminal	Typ J-F	e/CuNi 44	9786 U/TSK Fe-CuNi	57.904.71	55.0	50	
Thermocouple terminal	Тур	K-NiCr/Ni	9786 U/TSK NiCr-Ni	57.904.72	55.0	50	
Thermocouple terminal	Typ R-F	tRh 13/Pt	9786 U/TSK E-Cu-A-Cu	57.904.74	55.0	50	
Earth disconnect 24 - 48 V≃ w	ith LED Typ S-F	tRh 10/Pt					
Earth disconnect 110 - 220 V	≃ with indicator	lamp					
Accessories							
1. Mounting rail TS 35, DIN ra		L = 2 m	35 x 27 x 7,5 EN 60715	98.300.00		1	
Mounting rail TS 35, DIN ra	il 1.5mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.00		1	
Mounting rail TS 32, G rail		L = 2 m	9006 EN 60715 G-32	98.190.00	0.00	1	
2. End clamp with U-foot		mm wide	WE 1/U	Z5.523.57	53.0	100	
End clamp TS 35, with scre	w 8	mm wide	9708/2 S 35	Z5.522.85	53.0	100	
End clamp TS 32, with scre	w 7.5	mm wide	9708	Z5.522.70	53.0	100	
For more accessories see pag							
For marking systems see page	es 178-179 and	200-202					

Ground disconnect blocks

selos 105



EN 60 204 part 1 / DIN VDE 0113 part 1 "Fitting industrial machines with electrical equipment".

9.4.3.1. Protection against unintentional start-up caused by earth faults.

Earth faults in control circuits may not cause an unintentional start-up, dangerous movements by the machine, or prevent the machine from stopping.

During normal operation the auxiliary circuit is connected to the funcational earth and the green (24 - 48 V) or yellow (110 - 220 V) status display is illuminated.

If a low resistance earth fault occurs, the line fuse will blow.

Once the contact separator is open, you can replace the fuse.

The illumination of the red lamp alone indicates an earth fault.

After the fault had been rectified, the green (24-48V) or yellow (110-220V) display will light up. The contacts should now be moved to the "on" position as a result of which the red lamp will go out.

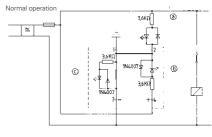
The illumination of the yellow or green lamp and external display indicates that the auxiliary circuit had been reconnected to the functional earth.

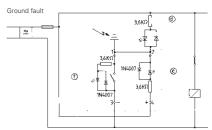
9760 U/8 TKE...

57 110 1655 0	25	
37.110.1333.0	20	
98.300.0000.0	1	
98.360.0000.0	1	
98.190.0000.0	1	
Z5.523.5753.0	100	
Z5.522.8553.0	100	
Z5.522.7053.0	100	
	98.300.0000.0 98.360.0000.0 98.190.0000.0 Z5.523.5753.0 Z5.522.8553.0	98.360.0000.0 1

- (a) external status display lights up
- (b) green status display lights up
- (c) red earth-fault indicator lights up
- d external status display lights up
- green status display lights up
- (f) red earth-fault indicator lights up

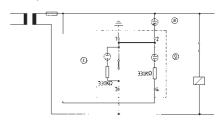
Earth Disconnect terminal with LED 24 - 48 V=



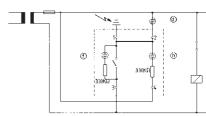


Earth Disconnect terminal with Neon Lamp

Normal operation



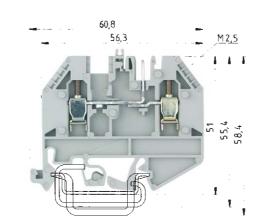
Ground fault

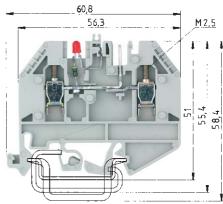


g yellow status display lights up

(h) yellow indicator light not flashing

Modular terminal block with socket for PCB pluggable connector selos PLUG





Indicator: R = 4.7 K; 0.5 W Lamp color: red

1) voltage rating determinted by lamp / LED

for PC board terminal type:

Type 8113 B Type 8313 B Type 8113 B/VL Type 8113 B/VR Type 8113 B/Top

UL-ratings

CSA ratings

Width

WK 2,5 U/D/8113 S/V

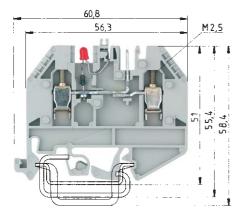
fine stranded solid $0.5 - 2.5 \text{ mm}^2$ $0.5 - 4 \text{ mm}^2$ EN 60 947-7-1/DIN VDE 0611 T1 250 V/4 kV/3 12 No. 22-12 AWG 300 V¹⁾ field/factory wiring 15 No. 24-12 AWG 300 V 1) 15 Wire strip length 5 mm 9 mm

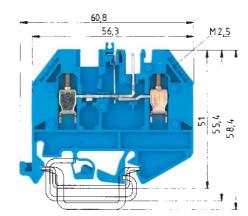
WK 2,5 U/D/8113 S/V/LED 25

fine stranded solid $0.5 - 2.5 \text{ mm}^2$ $0.5 - 4 \text{ mm}^2$ 12 300 V¹⁾ No. 22-12 AWG 15 No. 24-12 AWG 25 V due to LED/300 V¹⁾ 15 5 mm

pprovals	, ,	91. (9)			91. (1)		
		Туре	Part no. Std	I. pack	Туре	Part no. Std	. pack
Pluggable terminal	Color: gray	WK 2,5 U/D/8113 S/V	57.503.2155.0	50			
Pluggable terminal with LED 25 V ¹⁾	Color: gray				WK 2,5 U/D/8113 S/V/LED 25	57.503.2255.0	50
Pluggable terminal with LED 50 V ¹⁾	Color: gray						
Supply terminal	Color: blue						
PCB Pluggable connector type 8113							
(in wiecon section)							
Accessories							
1. Mounting rail TS 35, DIN rail, 7.5 m	m high $L = 2 \text{ m}$	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 15mm	high $L = 2 \text{ m}$	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 35, G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot	10 mm wide	2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
End clamp TS 35 with screw	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32 with screw	7.5 mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. End plate 2.5 mm thick	Color: gray	AP 2,5 U/D/8113 S/V	07.311.9055.0	10	AP 2,5 U/D/8113 S/V	07.311.9055.0	10
End plate 2.5 mm thick	Color: blue						
4. Spacer 2.5 mm thick	Color: gray	ZP 2,5 U/D/8113 S/V	07.311.9155.0	10	ZP 2,5 U/D/8113 S/V	07.311.9155.0	10
Spacer 2.5 mm thick	Color: blue						
use for 7.5 mm pitch pluggable connectors							
5. Cross connector with screws,	2pole	IVB WK 2,5-2	Z7.280.2227.0	10	IVB WK 2,5-2	Z7.280.2227.0	10
E-Cu, insulated	3pole	IVB WK 2,5-3	Z7.280.2327.0	10	IVB WK 2,5-3	Z7.280.2327.0	10
	12pole	IVB WK 2,5-12	Z7.280.3227.0	10	IVB WK 2,5-12	Z7.280.3227.0	10
6. LED bus bar, tin-plated brass	L = 0.4 m					05.561.4125.0	1
7. Cover strip for LED (transparent)		AD VB 5/10 P	04.342.3556.8	10	AD VB 5/10 P	04.342.3556.8	10
8. Single cover f. cross conn. with ma	rk.facility	AD VB 2,5 GELB	04.326.2053.8	10	AD VB 2,5 GELB	04.326.2053.8	10
9. Cover stripfor PCB terminal	24pole		04.343.9056.8	10		04.343.9056.8	10
with warning symbol	24pole		04.343.9156.8	10		04.343.9156.8	10
10. Snap-in partition		TS 2,5 GELB	07.311.2053.8	10	TS 2,5 GELB	07.311.2053.8	10
11. Coding strip			05.561.0053.0	100		05.561.0053.0	100
12. Locking piece	10pole						
For marking systems see pages 178-13	79 and 200-202						

selos





Indicator: R = 10 K; 0.5 W Lamp color: red

WK 2,5 U/D/8113 S/V/LED 50

fine stranded solid	V	Α
$0.5 - 2.5 \text{ mm}^2$ $0.5 - 4 \text{ m}$	nm² ¹⁾	12
No. 22-12 AWG	300 V ¹⁾	15
No. 24-12 AWG 50	0 V due to LED/300 V	^{I)} 15
5 mm	9	mm

WK 2,5 U/D/8113 S/V/VK

fine stranded solid	V	Α
$0.5 - 2.5 \text{ mm}^2$ $0.5 - 4 \text{ mm}^2$	250 V/4 kV/3	12
No. 22-12 AWG	300 V	15
No. 24-12 AWG	300 V	15
5 mm		9 mm
No. 22-12 AWG No. 24-12 AWG	300 V	15 15

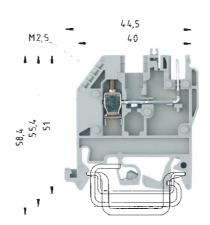
91 (0	91 (1)		J	
Type	Part no. Std	I. pack	Туре	Part no. St	d. pack	
WK 2,5 U/D/8113 S/V/LED 50	57.503.2355.0	50				
			WK 2,5 U/D/8113 S/V/VK	57.503.2555.6	50	
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	
9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1	
WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100	
9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100	
9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100	
AP 2,5 U/D/8113 S/V	07.311.9055.0	10	AP 2,5 U/D/8113 S/V	07.311.9055.0	10	
ZP 2,5 U/D/8113 S/V	07.311.9155.0	10	ZP 2,5 U/D/8113 S/V	07.311.9155.0	10	
IVB WK 2,5-2	Z7.280.2227.0	10	IVB WK 2,5-2	Z7.280.2227.0	10	
IVB WK 2,5-3	Z7.280.2327.0	10	IVB WK 2,5-3	Z7.280.2327.0	10	
IVB WK 2,5-12	Z7.280.3227.0	10	IVB WK 2,5-12	Z7.280.3227.0	10	
	05.561.4125.0	1		05.561.4125.0	1	
AD VB 5/10 P	04.342.3556.8	10	AD VB 5/10 P	04.342.3556.8	10	
AD VB 2,5 GELB	04.326.2053.8	10	AD VB 2,5 GELB	04.326.2053.8	10	
	04.343.9056.8	10		04.343.9056.8	10	
	04.343.9156.8	10		04.343.9156.8	10	
TS 2,5 GELB	07.311.2053.8	10	TS 2,5 GELB	07.311.2053.8	10	
	05.561.0053.0	100		05.561.0053.0	100	

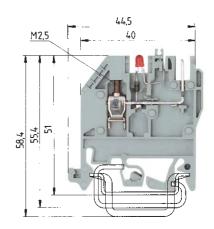
 $^{^{\}rm 1)}\,$ voltage rating determinted by lamp / LED

Modular terminal block with socket for PCB pluggable connector

field/factory wiring

selos PLUG





Indicator: R = 4.7 K; 0.5 W Lamp color: red

1) voltage rating determinted by lamp / LED

for PCB terminal types:

Type 8113 B Type 8313 B Type 8113 B/VL Type 8113 B/VR Type 8113 B/Top

DIN VDE 0110

UL-ratings

CSA ratings

WK 2,5 U/8113 S/V

fine stranded solid $0.5 - 2.5 \text{ mm}^2$ $0.5 - 4 \text{ mm}^2$ 250 V/4 kV/3 No. 22-12 AWG 300 V No. 24-12 AWG 300 V 5 mm

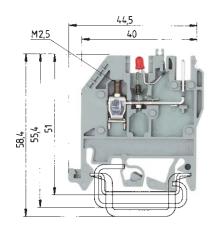
12 15 15 9 mm

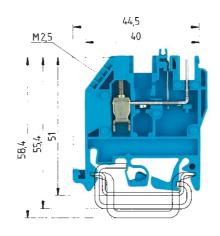
WK 2,5 U/8113 S/V/LED 25

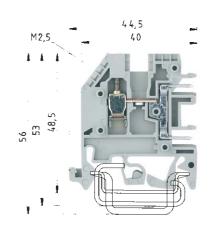
fine stranded solid $0.5 - 2.5 \text{ mm}^2$ $0.5 - 4 \text{ mm}^2$ 12 300 V¹⁾ No. 22-12 AWG 15 No. 24-12 AWG 25 V due to LED/300 V¹⁾ 15 5 mm

Vidth Wir Approvals	e strip length	5 mm 71 			9 mm	5 mm 71 			9 m
		Туре	Part no. Sto	d. pack		Type	Part no. Sto	. pack	
Pluggable terminal	Color: gray	WK 2,5 U/8113 S/V	57.503.2655.0	50					
Pluggable terminal with LED 25 V ¹⁾	Color: gray					WK 2,5 U/8113 S/V/LED 25	57.503.2755.0	50	
Pluggable terminal with LED 50 V ¹⁾	Color: gray								
Supply terminal	Color: blue								
Pluggable terminal with pluggable conn	ection for PCB								
PCB Pluggable connector type 8113									
(in wiecon section)									
Accessories									
1. Mounting rail TS 35, DIN rail, 7.5 m	nm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1		35 x 27 x 7,5 EN 60715	98.300.0000.0	1	
Mounting rail TS 35, DIN rail 15mm	h high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1		35 x 24 x 15 EN 60715	98.360.0000.0	1	
Mounting rail TS 35, G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1		9006 EN 60715 G-32	98.190.0000.0	1	
2. End clamp with U-foot	10 mm wide	2/U	Z5.523.5653.0	100		WE 2/U	Z5.523.5653.0	100	
End clamp TS 35 with screw	8 mm wide	9708/2 S 35	Z5.522.8553.0	100		9708/2 S 35	Z5.522.8553.0	100	
End clamp TS 32 with screw	7.5 mm wide	9708	Z5.522.7053.0	100		9708	Z5.522.7053.0	100	
3. End plate for right side, 2.5 mm th	ick Color: gray	AP 2,5 U/8113 S/V	07.312.1555.0	10		AP 2,5 U/8113 S/V	07.312.1555.0	10	
End plate for left side, 2.5 mm thic	k Color: gray	AP 2,5 U/8113	07.312.4655.0	10		AP 2,5 U/8113	07.312.4655.0	10	
End plate 2.5 mm thick	Color: blue								
4. Spacer, right side, 2.5 mm thick	Color: gray	ZP 2,5 U/8113 S/V	07.312.1655.0	10		ZP 2,5 U/8113 S/V	07.312.1655.0	10	
Spacer 2.5 mm thick	Color: blue								
use for 7.5 mm pitch pluggable connectors									
5. Cross connector with screws,	2pole	IVB WK 2,5-2	Z7.280.2227.0	10					
E-Cu, insulated	3pole	IVB WK 2,5-3	Z7.280.2327.0	10					
	12pole	IVB WK 2,5-12	Z7.280.3227.0	10					
6. LED bus bar, tin-plated brass	L = 0.4 m						05.561.4125.0	1	
7. Cover strip for LED (transparent)									
8. Single cover f. cross conn. with ma	arking facility	AD VB 2,5 GELB	04.326.2053.8	10		AD VB 2,5 GELB	04.326.2053.8	10	
Cover strip for PCB terminal	24pole		04.343.9056.8	10			04.343.9056.8	10	
with warning symbol	24pole		04.343.9156.8	10			04.343.9156.8	10	
10. Snap-in partition plate	·	TS 2,5 GELB	07.311.2053.8	10		TS 2,5 GELB	07.311.2053.8	10	
11. Coding strip			05.561.0053.0	100			05.561.0053.0	100	
12. Locking piece	10pole								
For marking systems see pages 178-1	79 and 200-202								

selos







Indicator: R = 10 K; 0.5 W

Lamp color: red

WK 2,5 U/8113 S/V/LED 50

fine stranded solid V A
0.5 – 2.5 mm² 0.5 – 4 mm² 1) 12
No. 22-12 AWG 300 V¹) 15
No. 24-12 AWG 50 V due to LED/300 V¹) 15
5 mm 9 mm

WK 2,5 U/8113 S/V/VK

fine stranded solid V A
0.5 – 2.5 mm² 0.5 – 4 mm² 250 V/4 kV/3 12
No. 22-12 AWG 300 V 15
No. 24-12 AWG 300 V 15
5 mm 9 mm

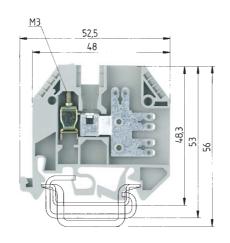
WK 2,5 U/D/8113 S/V/VK

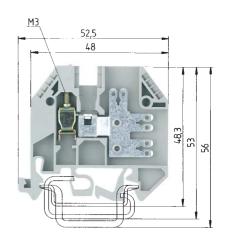
fine stranded solid V A
0,5 - 2,5 mm² 0,5 - 4 mm² 250 V/4 kV/3 12
No. 22-12 AWG 300 V 20
No. 24-12 AWG 300 V 15
5 mm 9 mm

71 ①		0 111111	71 @		0	71 (0 11111
Туре	Part no. Std.	pack	Туре	Part no. S	td. pack	Туре	Part no. Std	. pack
- 110-0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-76-2			- 7,60		
WK 2,5 U/8113 S/V/LED 50	57.503.2855.0	50						
			WK 2,5 U/8113 S/V/VK	57.503.3055.6	5 50			
						WK 2,5 U/8113 S/H	57.503.2055.0	100
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0		35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0		35 x 24 x 15 EN 60715	98.360.0000.0	1
9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0		9006 EN 60715 G-32	98.190.0000.0	1
WE 2/U	Z5.523.5653.0		WE 2/U	Z5.523.5653.0	0 100	WE 2/U	Z5.523.5653.0	100
9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	0 100	9708/2 S 35	Z5.522.8553.0	100
9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	0 100	9708	Z5.522.7053.0	100
AP 2,5 U/8113 S/V	07.312.1555.0	10						
AP 2,5 U/8113	07.312.4655.0	10	AP 2,5 U/8113	07.312.4655.0	0 10			
			AP 2,5 U/8113 S/V BL	07.312.1555.6	5 10	AP 2,5 U/8113 S/H***)	07.311.9853.0	
ZP 2,5 U/8113 S/V	07.312.1655.0	10	ZP 2,5 U/8113 S/V	07.312.1655.0	0 10			
			ZP 2,5 U/8113 S/V BL	07.312.1655.6	5 10			
			IVB WK 2,5-2	Z7.280.2227.0	0 10	IVB WK 2,5-2	Z7.280.2227.0	10
			IVB WK 2,5-3	Z7.280.2327.0	0 10	IVB WK 2,5-3	Z7.280.2327.0	10
			IVB WK 2,5-12	Z7.280.3227.0	0 10	IVB WK 2,5-12	Z7.280.3227.0	10
	05.561.4125.0	1						
AD VB 2,5 GELB	04.326.2053.8	10	AD VB 2,5 GELB	04.326.2053.8	3 10	AD VB 2,5 GELB	04.326.2053.8	10
	04.343.9056.8	10		04.343.9056.8	3 10			
	04.343.9156.8	10		04.343.9156.8	3 10			
TS 2,5 GELB	07.311.2053.8	10	TS 2,5 GELB	07.311.2053.8	3 10	TS 2,5 GELB	07.311.2053.8	10
	05.561.0053.0	100		05.561.0053.0	100		05.584.0053.0	100
							05.576.5853.0	25

 $^{^{\}rm 1)}$ voltage rating determinted by lamp / LED

Feed-through terminal blocks with screw/push-on connection selos PLUG





Push-on connectors 2.8 x 0.8 accord. to DIN 46247 Push-on connectors 6.3 x 0.8 accord. to DIN 46247

Push-on connectors 2.8 x 0.8 accord. to DIN 46247

Nominal data when using insulating housing EN 60 947-7-1, EN 61 210

field/factory wiring **UL-ratings** CSA ratings

Width Wire strip length

WK 4 3-6 S 1 K/U

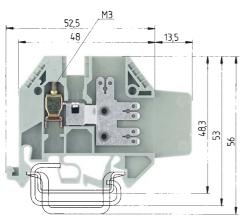
fine stranded solid 800 V/8 kV/3 20*) $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ 300 V 10 No. 22-12 AWG No. 22-12 AWG 300 V 10

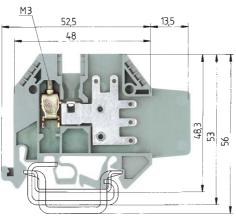
WK 4 5 S 2.8 1 K/U

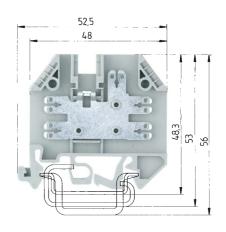
fine stranded solid 800 V/8 kV/3 20*) $0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$ 300 V 10 No. 22-12 AWG No. 22-12 AWG 300 V 10

Width Approvals	Wire strip length	6 mm ® 🕏 🕦 🏵 🚱		9 mr	n 6 mm N Ø (\$)@		9 mm
		Туре	Part no. Std	. pack	Туре	Part no. Std.	pack
Terminal block with screw and	d						
push-on connectors	Color: gray						
Push-on with 6 connectors 2.8 x	0.8	WK 4 3-6 S 1 K/U	57.504.3755.0	100			
Push-on with 5 connectors 2.8 x	0.8				WK 4 5 S 2,8 1 K/U	57.504.3855.0	100
Distribution terminal	Color: gray						
Push-on with 10 connectors							
Accessories							
	7 E mana himb I 2 ma	25 v 27 v 7 5 FN 60715	00 200 0000 0	1	25 v 27 v 7 5 5N 00715	00 200 0000 0	1
Mounting rail TS 35, DIN rail, Mounting rail TS 35, DIN rail,		35 x 27 x 7,5 EN 60715	98.300.0000.0	•	35 x 27 x 7,5 EN 60715	98.300.0000.0	
Mounting rail TS 35, DIN rail		35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 35, G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot	10 mm wide	2/U	Z5.523.5653.0		WE 2/U	Z5.523.5653.0	
End clamp TS 35 with screw		9708/2 S 35	Z5.522.8553.0		9708/2 S 35	Z5.522.8553.0	
End clamp TS 32 with screw		9708	Z5.522.7053.0		9708		100
3. End plate, 1.5 mm thick	Color: gray	AP4 3 S 1 K	07.311.3855.0	10	AP4 3 S 1 K	07.311.3855.0	10
	Color: blue						
4. Insulating housing for push-c	on connector yellow						
for H0. V-K 1.5 mm ²			05.592.7553.0			05.592.7553.0 2	
for H0. V-K 2.5 mm ²			05.592.7653.0	2000		05.592.7653.0 2	000
5. Cross connector with screws	s, E-Cu,						
insulated	2pole	IVB WK 4-2	Z7.281.1227.0	10	IVB WK 4-2	Z7.281.1227.0	10
	3pole	IVB WK 4-3	Z7.281.1327.0	10	IVB WK 4-3	Z7.281.1327.0	10
	to 12pole	IVB WK 4-12	Z7.281.2227.0	10	IVB WK 4-12	Z7.281.2227.0	10
6. Jumper rail, tin-plated brass	L = 0.4 m						
7. Cover strip for LED (transpar	ent)						
8. Single cover f. cross conn. w	vith marking facility	AD VB 4 GELB	04.326.2153.8	10	AD VB 4 GELB	04.326.2153.8	10
9. Cover strip for cross conn. or	ver 10 blocks	AD VB 6/10 GELB	04.342.0656.8	10	AD VB 6/10 GELB	04.342.0656.8	10
10.Partition plate		TS 4 GELB	07.311.2153.8	10	TS 4 GELB	07.311.2153.8	10
11. Coding strip							
For marking systems see pages	178-179 and 200-202				*) Current carrying capa	ability accord. to DIN 46	6249

selos







Push-on connectors 2.8 x 0.8 accord. to DIN 46247 Push-on connectors 6.3 x 0.8 accord. to DIN 46247

Push-on connectors 2.8 x 0.8 accord. to DIN 46247

Push-on connectors 2.8×0.8 accord. to DIN 46247 Push-on connectors 6.3×0.8 accord. to DIN 46247

WK 4-3-6 S 1 K/IW/U

tine stranded	solid	V	А
$0.5 - 4 \text{ mm}^2$	$0.5 - 6 \text{ mm}^2$	800 V/8 kV/3	20* ⁾
No. 22-12 AW0	3	600 V	10
No. 22-12 AW0	3	300 V	10
6 mm		Ç	9 mm

WK 4-5 S 2,8 1 K/IW/U

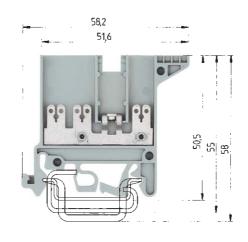
fine stranded solid	V	Α
$0.5 - 4 \text{ mm}^2$ $0.5 - 6 \text{ mm}^2$	800 V/8 kV/3	20* ⁾
No. 22-12 AWG	600 V	10
No. 22-12 AWG	300 V	10
6 mm	Ç	mm 6
B B B B		

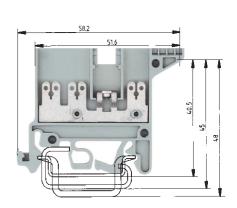
WK/5-10 S/U

fine stranded solid	V	Α
	800 V/8 kV/3	20*)
	300 V	10
No. 22-12 AWG	300 V	10
6 mm		
(§) 91. (§)		

71 (£ (\$) (£		71 (£ (\$)(0)			⊕ 91. (⊕		
Туре	Part no. Std. pack	Туре	Part no. Std.	pack	Туре	Part no. Sto	I. pack
WK 4 3-6 S 1 K/IW/U	57.504.2755.0 100	WILL A E C 2 O 1 K // W// I	E7 E04 20EE 0	100			
		WK 4 5 S 2,8 1 K/IW/U	57.504.2855.0	100			
					WK/5-10 S/U	57.504.3655.0	100
35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0	1	9006 EN 60715 G-32	98.190.0000.0	1
WE 2/U	Z5.523.5653.0 100	WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
9708	Z5.522.7053.0 100	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
AP4 3 S 1 K	07.311.3855.0 10	AP4 3 S 1 K	07.311.3855.0	10	AP 5 S	07.311.4655.0	10
	05.592.7553.0 2000		05.592.7553.0 2	2000		05.592.7553.0	2000
	05.592.7653.0 2000		05.592.7653.0 2			05.592.7653.0	
IVB WK 4-2	Z7.281.1227.0 10	IVB WK 4-2	Z7.281.1227.0	10	IVB WKI 4-2	Z7.271.4227.0	10
IVB WK 4-3	Z7.281.1327.0 10	IVB WK 4-3	Z7.281.1327.0	10	IVB WKI 4-3	Z7.271.4327.0	10
IVB WK 4-12	Z7.281.2227.0 10	IVB WK 4-12	Z7.281.2227.0	10	IVB WKI 4-12	Z7.271.5227.0	10
AD VB 4 GELB	04.326.2153.8 10	AD VB 4 GELB	04.326.2153.8	10	AD VB 4 GELB	04.326.2153.8	10
AD VB 6/10 GELB	04.342.0656.8 10	AD VB 6/10 GELB	04.342.0656.8	10	AD VB 6/10 GELB	04.342.0656.8	10
TS 4 GELB	07.311.2153.8 10	TS 4 GELB	07.311.2153.8	10	TS 4 GELB	07.311.2153.8	10

Distribution terminals for push-on connectors **selos** PLUG





Current carrying capability in accordance with DIN 46249

Push-on connector

2.8 10 A 20 A 6.3

Current carrying capability in accordance with

EN 60 947-7-1, EN 61 210

UL-ratings field/factory wiring CSA ratings

Width Wire strip length

For marking systems see pages 178-179 and 200-202

Approvals

Push-on connectors 2.8 x 0.8 accord. to DIN 46247 Push-on connectors 6.3 x 0.8 accord. to DIN 46247

Push-on connectors 6.3 x 0.8 accord. to DIN 46247

WK/3-6 S/U fine stranded solid Α 800 V/8 kV/3 20

Push-on connectors 2.8 x 0.8 accord. to DIN 46247

No. 24-12 AWG 6 mm

300 V 10 300 V 10

91 (1) (5)

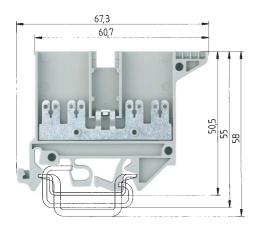
WK/3-6 S/IW/U

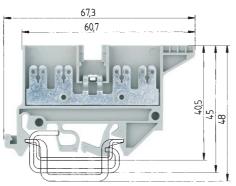
FL (1) Type

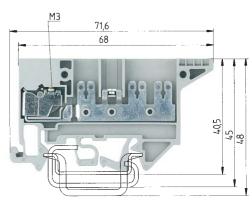
fine stranded	solid	V	Α
$0.5 - 4 \text{ mm}^2$	$0.5 - 6 \text{ mm}^2$	800 V/8 kV/3	20
		600 V	10
No. 22-12 AW	/G	300 V	10
6 mm			

Distribution terminals					
with 6 push-on connectors 2.8 x 0.8	Color: gray	WK/3-6 S/IW/U	57.504.6755.0 100	WK/3-6 S/U	57.504.6655.0 100
Rapid mounting feed-through block	K				
Accessories					
1. Mounting rail TS 35, DIN rail, 7.5 n	mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
Mounting rail TS 35, DIN rail 15mn	n high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1
Mounting rail TS 35, G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0 1
2. End clamp with U-foot	10 mm wide	2/U	Z5.523.5653.0 100	WE 2/U	Z5.523.5653.0 100
End clamp TS 35 with screw	8 mm wide	9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0 100
End clamp TS 32 with screw	7.5 mm wide	9708	Z5.522.7053.0 100	9708	Z5.522.7053.0 100
3. End plate, 2.5 mm thick	Color: gray	AP 3 S/IW	07.311.4555.0 50	AP 3 S	07.311.4455.0 50
End plate 2.5 mm thick	Color: blue				
4. Insulating sleeve for tab connector	r yellow				
for H0. V-K 1.5 mm ²			05.592.7553.0 2000		05.592.7553.0 2000
for H0. V-K 2.5 mm ²			05.592.7653.0 2000		05.592.7653.0 2000
5. Cross connector with screws, E-C	u,				
uninsulated	2pole	VB WK/S/IW/U-2	Z7.281.3227.0 10	9703/6-2	Z7.211.0227.0 50
	3pole	VB WK/S/IW/U-3	Z7.281.3327.0 10	9703/6-3	Z7.211.0327.0 50
	to 6pole	VB WK/S/IW/U-6	Z7.281.3627.0 10	9703/6-6	Z7.211.0627.0 50
6. Jumper rail, tin-plated brass	L = 0.4 m				
7. Cover strip for LED (transparent)					
8. Single cover f. cross conn. with m	arking facility	AD VB 4 GELB	04.326.2153.8 10	AD VB 4 GELB	04.326.2153.8 10
9. Cover strip for cross conn. over 10) blocks	AD VB 6-10 GELB	04.342.0653.8	AD VB 6-10 GELB	04.342.0653.8
Cover strip with warning symbol o	over 4 blocks				
10. Snap-on partition plate		TS 4 GELB	07.311.2153.8 10	TS 4 GELB	07.311.2153.8 10
11. Coding piece					

selos







Push-on connectors 2.8 x 0.8 accord. to DIN 46247 Push-on connectors 6.3×0.8 accord. to DIN 46247

Push-on connectors 2.8×0.8 accord. to DIN 46247 Push-on connectors 6.3×0.8 accord. to DIN 46247

Push-on connectors 2.8×0.8 accord. to DIN 46247 Push-on connectors 6.3×0.8 accord. to DIN 46247

WK/4-8 S/IW/U

WK/4-8 S/U

Fine stranded solid V A 800 V/8 kV/3 20

No. 22-12 AWG 300 V 10 6 mm **91. (C.2)**

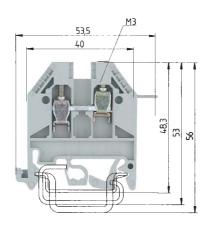
WK/3-6 S KO/U

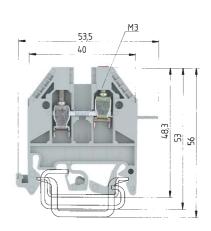
fine stranded solid V A
0.5 - 4 mm² 690 V/8 kV/3 20
No. 22-12 AWG 300 V 10
No. 22-12 AWG 300 V 10
6 mm 9 mm

(§) 91 (§)		91 (0) (5)		91 (F)	
Туре	Part no. Std. pack	Туре	Part no. Std. pack	Туре	Part no. Std. pack
WK/4-8 S/IW/U	57.504.6355.0 100	WK/4-8 S/U	57.504.6255.0 100	144442 2 2 442 44	
				WK/3-6 S KO/U	57.504.7355.0
35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1
9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0 1
WE 2/U	Z5.523.5653.0 100	WE 2/U	Z5.523.5653.0 100	WE 2/U	Z5.523.5653.0 100
9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0 100
9708	Z5.522.7053.0 100	9708	Z5.522.7053.0 100	9708	Z5.522.7053.0 100
AP 4 S/IW	07.311.4355.0 50	AP 4 S	07.311.4255.0 10	9701 A/6 1 S KO TP 2	07.310.5855.0 50
	05.592.7553.0 2000		05.592.7553.0 2000		05.592.7553.0 2000
	05.592.7653.0 2000		05.592.7653.0 2000		05.592.7653.0 2000
	00.002.7000.0 2000		00:002:7 000:0 2000		00:002:// 000:0 2000
VB WK/S/IW/U-2	Z7.281.3227.0 10	9703/6-2	Z7.211.0227.0 50	2072/2	Z7.220.0227.0 50
VB WK/S/IW/U-3	Z7.281.3327.0 10	9703/6-3	Z7.211.0327.0 50	2072/2	Z7.220.0227.0 50
VB WK/S/IW/U-6	Z7.281.3627.0 10	9703/6-6	Z7.211.0627.0 50	2072/6	Z7.220.0627.0 50
AD VB 4 GELB	04.326.2153.8 10	AD VB 4 GELB	04.326.2153.8 10		
AD VB 6-10 GELB	04.342.0653.8	AD VB 6-10 GELB	04.342.0653.8		
TO 4 OF 1 P	07.044.0450.0	TO 4 OF LD	07.044.0450.0.40		
TS 4 GELB	07.311.2153.8 10	TS 4 GELB	07.311.2153.8 10		

Feed-through blocks with solder connection

selos OS





terminals WK 4/UF1 and WK 4/UF2 should be mounted alternately in order to observe the creepages and clearances required for the specific rated voltages.

WK 4/U F1

WK 4/U F2

EN 60 947-7-1/DIN VDE 0611 T1 UL-ratings CSA ratings Width Approvals

Wire strip length

fine stranded solid V A
0.5 - 4 mm² 0.5 - 6 mm² 400 V/6 kV/3 32
No. 22-10 AWG 300 V 30
No. 22-10 AWG 300 V 20
6 mm 9 mm

fine stranded solid V A
0.5 - 4 mm² 0.5 - 6 mm² 400 V/6 kV/3 32
No. 22-10 AWG 300 V 30
No. 22-10 AWG 300 V 20
6 mm 9 mm

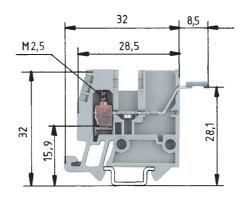
pprovaio	74 W		^			
	Туре	Part no. Std. pac	k Ty	rpe .	Part no. Sto	I. pack
Feed through terminal	WK 4/U F1	57.504.1055.0 100	O Wk	< 4/U F2	57.504.1155.0	100
Color: gray						
same dimensions as WK4						
Accessories	35 x 27 x 7,5 EN 60715	98.300.0000.0	1 35	x 27 x 7,5 EN 60715	98.300.0000.0	1
1. Mounting rail TS 35, DIN rail 7.5mm high $L = 2 \text{ m}$	35 x 24 x 15 EN 60715	98.360.0000.0	1 35	x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 35, DIN rail 1.5mm high $L = 2 \text{ m}$	9006 EN 60715 G-32	98.190.0000.0	1 900	06 EN 60715 G-32	98.190.0000.0	1
Mounting rail TS 32 G rail $L = 2 \text{ m}$	WE 1/U	Z5.523.5753.0 100	O WE	E 1/U	Z5.523.5753.0	100
2. End clamp with U-foot 10 mm wide	9708/2 S 35	Z5.522.8553.0 100	0 970	08/2 S 35	Z5.522.8553.0	100
End clamp TS 35, with screw 8 mm wide	9708	Z5.522.7053.0 100	0 970	08	Z5.522.7053.0	100
End clamp TS 32, with screw 7.5 mm wide	AP 2,5-4	07.311.0155.0 10	O AP	2,5-4	07.311.0155.0	10
3. End plate, 1.5 mm thick Color: gray						
	TW 2,5-4	07.311.1155.0 10	O TW	/ 2,5-4	07.311.1155.0	10
4. Partition, 1.5 mm thick						
5. Cross connector with screws, E-Cu	IVB WK 4-2	Z7.281.1227.0 10	O IVE	3 WK 4-2	Z7.281.1227.0	10
insulated 2pole	IVB WK 4-3	Z7.281.1327.0 10	O IVE	3 WK 4-3	Z7.281.1327.0	10
3pole	IVB WK 4-12	Z7.281.2227.0 10	O IVE	3 WK 4-12	Z7.281.2227.0	10
to 12pole						
6. Cover for jumper bar with marking capability	AD VB 4 GELB	04.326.2153.8 10	O AD	VB 4 GELB	04.326.2153.8	10
7. Partition plate	TS 4 GELB	07.311.2153.8 10	0 TS	4 GELB	07.311.2153.8	10
For marking systems see pages 178-179 and 200-202						

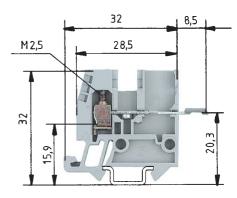
Micro modular feed through blocks type WKM selos MINI

The terminal blocks of series WKM 2,5 F1/15 and WKM 2,5 F2/15 must be mounted alternately in order to maintain the required air and creepage distances for the indicated rated voltage.

- *) Ratings to adjacent feed-through block of same series and size
- $^{**)}$ For the current carrying capability of the mounting rail see section facts & DATA

When using switchable connecting links you have to insert a partition which reduces the rated voltage to 400 V/6 kV/3





WKM 2.5 F1/15

fine stranded solid $0.5 - 2.5 \, \text{mm}^2 \, 0.5 - 4 \, \text{mm}^2$ 500 V/6 kV/3 WKM 2.5 F2/15

24

fine stranded solid $0.5 - 2.5 \, \text{mm}^2 \, 0.5 - 4 \, \text{mm}^2$ 500 V/6 kV/3 24

9 mm

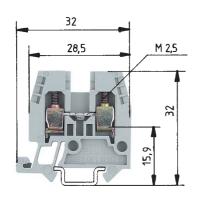
EN 60 947-7-2/DIN VDE 0611 T3

UL-ratings field/factory wiring

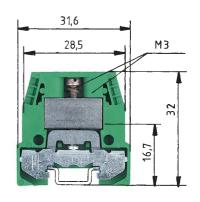
CSA ratings Width Wire strip length Approvals

5 mm 9 mm 5 mm (D) (A) (I) (A)

Approvals		(D) 😂 🚱			(D) 😂 (A)		
		Туре	Part no. Std	. pack	Type	Part no. Sto	d. pack
Feed-through blocks with solder conne	ection Color: gray	WKM 2,5 F1/15	55.503.1253.0	100	WKM 2,5 F2/15	55.503.1353.0	100
Feed-through block	Color: gray						
Feed-through block	Color: blue						
Ground block Co	olor: green/yellow						
Accessories		0004 /45 5 5 5N 00745	00 000 0015 0	10	0001 /1F F F FN 0071F	00.000.0015.0	10
1. Mounting rail 15, DIN rail 5.5 mm hig		9021/15 x 5,5 EN 60715	98.090.0015.0		9021/15 x 5,5 EN 60715	98.090.0015.0	10
2. End clamp, Polyamide	7.5 mm wide	9208 S 15	Z5.522.7553.0		9208 S 15	Z5.522.7553.0	
3. End plate 1,5 mm thick	Color: gray	APM 2,5 F./15	07.311.0653.0	10	APM 2,5 F./15	07.311.0653.0	10
	Color: blue						
4. Partition 1.5 mm thick	Color: gray						
	Color: blue						
5. Cross connector with screws, E-Cu							
insulated (jumper)	2pole						
	3pole						
	to 12pole						
6. Single cover f. cross conn. with mark	king facility	AD VB 2,5/15 GELB	04.326.3053.8	10	AD VB 2,5/15 GELB	04.326.3053.8	10
7. Partition plate with marking facility		TSM 2,5/15	07.311.2853.8	10	TSM 2,5/15	07.311.2853.8	10
For more accessories see pages 160-17							
For marking systems see pages 178-179	and 200-202						



32 285 M3



WKM 2,5/15

WKM 4/15

fine stranded solid V A
0.5 - 4 mm² 0.5 - 6 mm² 500 V/6 kV/3 32
No. 22-10 AWG 600 V 30
No. 20-10 AWG 600 V 37
6 mm 9 mm

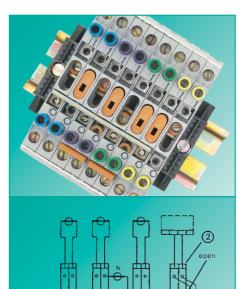
WKM 4 SL/15

fine stranded solid V A
0.5 – 4 mm² 0.5 – 6 mm² 500 V/6 kV/3*)
No. 22-14 AWG 300 V*) 10
No. 22-10 AWG
6 mm 9 mm

SEV-EEX (D) (F) LI	R 🕦 * 🐠 ** BKI-EEx	\$ <u>sev</u> ir 91 * @ *	(*	SEV-EEX 🗊 LR 🤼	1 * ⑤ ** BKI-EEx ⑥
Туре	Part no. Std. pack	Туре	Part no. Std. pack	Туре	Part no. Std. pack
WKM 2,5/15	55.503.1053.0 100	WKM 4/15	55.504.1053.0 100		
WKM 2,5/15 BLAU	55.503.1053.6 100	WKM 4/15 BLAU	55.504.1053.6 100		
				WKM 4 SL/15	55.504.9153.0 100
9021/15 x 5,5 EN 60715	98.090.0015.0 10	9021/15 x 5,5 EN 60715	98.090.0015.0 10	9021/15 x 5,5 EN 6071	5**) 98.090.0015.0 10
9208 S 15	Z5.522.7553.0 100	9208 S 15	Z5.522.7553.0 100	9208 S 15	Z5.522.7553.0 100
APM 2,5 - 4/15	07.311.0853.0 10	APM 2,5 - 4/15	07.311.0853.0 10	APM 4 SL/15	07.311.0753.0 10
APM 2,5 - 4/15 BLAU	07.311.0853.6 10	APM 2,5 - 4/15 BLAU	07.311.0853.6 10		
TWM 2,5 - 4/15	07.311.1853.0 10	TWM 2,5 - 4/15	07.311.1853.0 10		
TWM 2,5 - 4/15 BLAU	07.311.1853.6 10	TWM 2,5 - 4/15 BLAU	07.311.1853.6 10		
		IVB WK 4 E/U-2	Z7.271.2227.0 10		
		IVB WK 4 E/U-3	Z7.271.2327.0 10		
		IVB WK 4 E/U-12	Z7.271.3227.0 10 Z7.271.3227.0 10		
AD VB 2,5/15 GELB	04.326.3053.8 10	AD VB 4/15 GELB	04.326.2953.8 10		
TSM 2,5/15	07.311.2853.8 10	TSM 4/15	07.311.2953.8 10		
10101 2,0/10	07.511.2030.0	10101 4/ 10	07.011.2000.0 10		
*CL I, ZN1, AExe II /	**CL I, ZN1, Exe II pending	*CL I, ZN1, AExe II /	**CL I, ZN1, Exe II pending	*CL I, ZN1, AExe I	I / **CL I, ZN1, Exe II pending

Current transformer disconnect terminals





Current transformer circuits must always have a closed secondary circuit. This rule applies even when changing measuring instruments or electric meters and when carrying out reference measurements with external measuring instruments.

- ☐ The WKT-Terminal Block Series meets all circuit applications with the addition of a few accessories.
- → This modular concept reduces inventory and component costs.



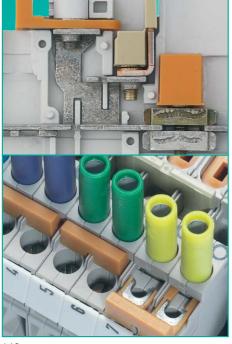
- ☐ All components including the terminal block and accessories are insulated.
- → Test points are touch safe to the standard VGB4
- → Sliding link and jumper bars are touch safe.



- → Easy to operate Sliding-Link
- → The insulated housing on the Sliding-Link provides a guide for the screwdriver blade. This prevents the blade from accidentally slipping off the screw head. The insulated housing also provides visual indication of the circuit status (open or closed).

- → Jumper Bars
- → Siding Shorting Bars
- → Test plug socket

- → Accessories are easily installed with a screwdriver, even the test plugs.
- ☐ Safe operation of the sliding shorting bar: The sliding shorting bar is touch safe.
- → The sliding shorting bar is designed such that the test plug socket remains available for testing.





Insulated Jumpering System

Distribution of the K - potential is possible due to the open slots for both the sliding shorting bar and the stationary jumper bar. Commoning every other terminal is possible by removing every other pole from the stationary jumper bar (see drawing on page 149).

Material

- Special alloys and surface treatments
- □ Low contact resistance
- ☐ High corrosion Resistance



Insulated Test sockets

The test sockets accept Wieland standard plugs or commercially available safety plugs with a diameter of 4mm.

This allows current tests without shut-

The sliding disconnect locking device prevents tampering of the disconnect screw. The locking device can lock the screw in open or closed position. This

device is easily installed into the top of the terminal block. Removing the locking device requires a standard screwdriver.

☐ Metal parts

Clamping body/clamping screws: steel, zinc-plated and dichromated

Current carrying bar: Tin plated copper

□ Insulation material

Polyamide 66/6 for its excellent electrical, chemical and mechanical characteristics (see section facts & DATA) Material accord, to US standard UL 94-V0

You can use our wieplan software to configure your own terminal block assemblies (see page 10/11).



Reg.-Nr. 14 194-02

wieland

Marking capability with the standard Wieland marking system.

- ☐ Single marking tags in the same pitch as the terminal block
- ☐ Snap-on marking strips (10 individual marking tags per strip) for rapid marking
- ☐ Tear-off marking strips for marking up to 3-digits per terminal block

DQS certificates for all product families

- Quality standard as per DIN ISO 9001
- ☐ in Development, Production, Assembly
- ☐ Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
- BSI Certificate, Great Britain
- SQS Certificate, Switzerland
- Aib-Vincotte Certificate, Belgium
- ÖQS Certificate, Austria

Note:

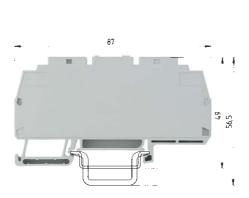
The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules.

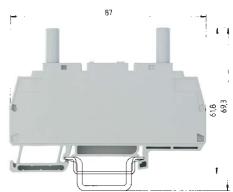
The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, Wieland offers a large selection of appropriate accessories.

A detailed description of technical data, the standards' requirements, and the application conditions can be found in part facts & DATA.

Current transformer disconnect terminal block

selos OS





available from 02/02

WK6 TK/35

EN 60 947-7-1/DIN VDE 0611 T1
UL-ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

fine stranded solid V A
0.5 - 6 mm² 0.5 - 10 mm² 400 V/6 kV/3 32
No. 20-8 AWG 600 V 45
No. 20-8 AWG 300 V 45
8 mm

\$\mathref{\text{N}} \mathref{\text{G}} \mathref{\text{pending}}\$

available from 02/02

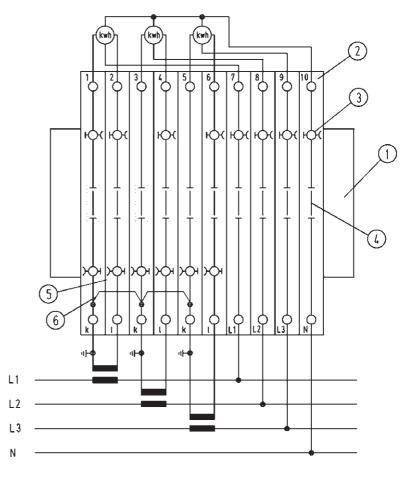
WK6 TK P3/35

fine stranded solid V A 0.5 - 6 mm² 0.5 - 10 mm² 400 V/6 kV/3 32 No. 20-8 AWG 600 V 45 No. 20-8 AWG 300 V 45

SU pending

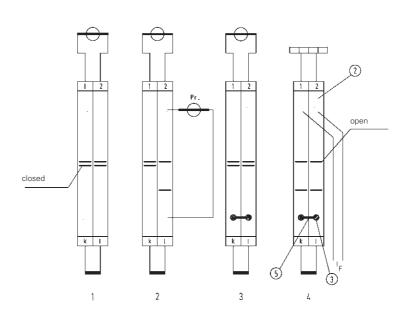
8 mm

pprovals	91 (i) pending		91 (P pending	
	Туре	Part no. Std. pack	Туре	Part no. Std. pack
Current transformer disconnect terminal	WK6 TK/35	56.106.0553.0	WK6 TK P3/35	56.106.0653.0
Accessories				
1. Mounting rail TS 35, DIN rail 7.5mm high $L = 2$	m 35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
Mounting rail TS 35, DIN rail, 15mm high $L = 2$	m 35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1
Mounting rail TS 32, G rail $L = 2$	m			
2. End clamp with U-foot 10 mm wid	e WE 1/U	Z5.523.5753.0 100	WE 1/U	Z5.523.5753.0 100
End clamp TS 35 with screw 8 mm wid	e 9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0 100
End clamp TS32 with screw 7.5 mm wid	e			
3. Disconnect locking device	SP WK6 TK	05.563.5453.0	SP WK6 TK	05.563.5453.0
4. Sliding short-circuit slide				
insulated 2po	e IVS WK6 TK-2	Z7.212.2227.0	IVS WK6 TK-2	Z7.212.2227.0
3ро	e IVS WK6 TK-3	Z7.212.2327.0	IVS WK6 TK-3	Z7.212.2327.0
4po	e IVS WK6 TK-4	Z7.212.2427.0	IVS WK6 TK-4	Z7.212.2427.0
5. Jumper bar with screws, E-Cu				
insulated 2po	e IVB WK6 TK-2	Z7.212.1227.0	IVB WK6 TK-2	Z7.212.1227.0
3ро	e IVB WK6 TK-3	Z7.212.1327.0	IVB WK6 TK-3	Z7.212.1327.0
4po	e IVB WK6 TK-4	Z7.212.1427.0	IVB WK6 TK-4	Z7.212.1427.0
5ро	e IVB WK6 TK-5	Z7.212.1527.0	IVB WK6 TK-5	Z7.212.1527.0
10po	e IVB WK6 TK-10	Z7.212.2027.0	IVB WK6 TK-10	Z7.212.2027.0
6. Test socket Color: gra	y SB 4 GRAU	05.511.2953.0	SB 4 GRAU	05.511.2953.0
Color: viole	et SB 4 VIOLETT	05.511.2953.9	SB 4 VIOLETT	05.511.2953.9
Color: gree	n SB 4 GRÜN	05.511.2953.7	SB 4 GRÜN	05.511.2953.7
Color: yello	w SB 4 GELB	05.511.2953.8	SB 4 GELB	05.511.2953.8
For more accessories see pages 160-177				
For marking systems see pages 178-179 and 200-202				



Application example:

Pos	Туре	Part no.	Std.	nack
	WE 1/4	Z5.523.5753		100
	WK6 TK/35	56.106.0053		100
	SB 4 GRAU			100
	SB WK6 TK			100
	IVS WK6 TK-2			
	for a common K-p		.0	
	IVB WK6 TK-5		7 ()	

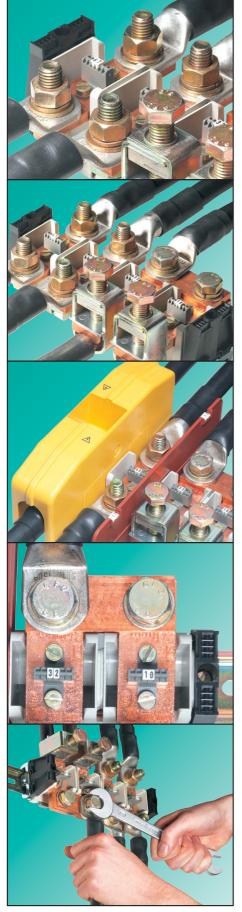


Simple current transformer circuits

1 = normal operation 3 = transformer short circuit

2 = measured value testing 4 = relay testing





RFK offers ...

- ☐ Rising Cage Connection Technology
- ☐ Rising Cage and Ring Terminal Connection
- ☐ Ring Terminal connections in two styles:
 - Screw (bolt) with nut
 - Screw (bolt) with threaded current bar

- **Application advantages**
- → A stripped wire can be connected without ferules/unprepared
- → Secure connection due to the elastic design of the clamping body
- → Connection requires ring lug terminal
- → Secure connection with use of lock washers
- □ Rated cross section: $95 240 \text{ mm}^2$
- ☐ Connection Range: 2/0 AWG 500 MCM
- ☐ Material:
 - Insulating housing, partition, cover:
 Polyamide 66/6
 - Current carrying bar and jumper rail:
 F-Cu
 - Screws, nuts, washers, clamping bodies: galvanically zinc-plated steel
- → Due to its excellent electrical, chemical and mechanical properties
- → Low contact resistance

- □ Touch Safe Covers
- ☐ Partition Plates with marking capability
- → Touch safe covers can be installed after connections have been made and do not increase the pitch of the assembly.
- → Partition plates provide both visual and electrical separation of adjacent terminals. They do not increase the pitch of the assembly and can be marked with the Wieland standard marking system.

☐ Jumper bar:

Available in 2, 3, or 4 pole versions.

 Jumper bars are used to common the potential of RFK terminals with ring connection.

Installation instructions:

When tightening the terminal screw, it is recommended that you hold it against the conductor in order to prevent deformation of the mounting rail and to keep the foot of the terminal free from torsional forces.

The threaded hole in the foot of the terminal type RFK 1/...PA enables the terminals to be screwed to the mounting rail. Perforated rails are available for the purpose and the mounting rail is pre-drill accordingly on site or at the factory.

Caution: Make sure that the recommended stripped length for the conductor of 27 mm is observed!













BK offers ...

- ☐ Stud bolt connection
- ☐ Torque values to stud bolt diameter standard up to 10 Nm Connection range per stud bolt diameter standard DIN 46 234 from 2.5 to 240 mm

Application advantages

- → No loose wires
- → High contact force ensures a secure connection with the use of a lock washer

☐ Material:

- Insulated housing: epoxy resin
- Stud Bolt, nut and lock washer: galvanized steel, zinc plated
- Jumper Bar: E-Cu
- Locking slide, marking tag, and marking tag holder: Polyamide
- → Constant operating temperature; 150 °C
- → Nuts, washer, lock washer are included but are packaged separately

- ☐ End plates / partition plate with marking capability
- ☐ Marking tag cover

- → End plates/partition plates provide both visual and electrical separation of adjacent terminals. They do not increase the pitch of the assembly and can be marked with the Wieland standard marking system.
- → The marking tag cover is a translucent vellow material which protects the marking tag against dust and other industrial elements.

☐ Jumper bar:

Available in 2, 3, 4 pole versions

☐ Locking slides

allows the BK series to be locked onto the DIN rail

- → With the BK terminal series fot ting connection, it is possible to common the potential of adjacent terminals with a jumper bar.
- → The locking slide ensures secure mounting of the BK terminal on the DIN rail. This is important due to larger conductor sizes and higher torque values of the BK series.

DQS certificates for all company divisions

- ☐ Quality standard as per DIN ISO 9001
- ☐ in Development, Production, Assembly
- □ Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
- BSI Certificate, Great Britain
- SQS Certificate, Switzerland Aib-Vincotte Certificate, Belgium
- ÖQS Certificate, Austria

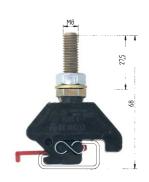
You can use our **wieplan** software to configure your own terminal block assemblies (see page 10/11).

A detailed description of technical data, the standards' requirements, and the application conditions can be found in part facts & DATA.

Stud bolt terminal for 32 mm DIN rail **SEIOS** POWER LINE



The wire size is dependent on the hole diameter of the ring terminal of 6.5 mm and the max. ring terminal width of 15 mm



The wire size is dependent on the hole diameter of the ring terminal of 6.5 mm and the max. ring terminal width of 15 mm

BK M 6/32

DIN VDE 0110
UL-ratings field/fact
CSA ratings
Width Wire s
Approvals

field/factory wiring

Wire strip length

1500 V~ 1800 2 AWG 18 mm

1800 V ... Gr. C 600 V

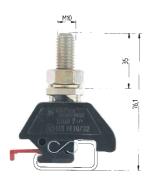
V A Gr. C 600 V 115

BK M 8/32

V A
1500 V~ 1800 V ... Gr. C
3/0 AWG
26 mm

♠ ♠ ♠

				•	
		Туре	Part no. Std. pack	Type	Part no. Std. pack
Stud bolt terminal		BK M 6/32	32.630.0042.0 50	BK M 8/32	32.640.0042.0 50
Accessories					
1. Mounting rail TS 35, DIN rail, 7.5 mr					
Mounting rail TS 35, DIN rail 15 mm	high $L = 2 \text{ m}$				
Mounting rail TS 35, G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0 1	9006 EN 60715 G-32	98.190.0000.0 1
2. End clamp with U-foot	10 mm wide	WE 1/U	Z5.523.5753.0 100	WE 1/U	Z5.523.5753.0 100
End clamp TS32 with screw	8 mm wide				
End clamp TS32 with screw	7.5 mm wide	9708	Z5.522.7053.0 100	9708	Z5.522.7053.0 100
3. End plate with marking capability			07.340.4153.0 50		07.340.4153.0 50
				or	07.340.4353.0 *) 50
4. Partition with marking capability			07.340.1153.0 50		07.340.1153.0 50
				or	07.340.1353.0* ⁾ 50
5. Jumper bar	from E-Cu				
	for 2 blocks				
	for 3 blocks				
	for 4 blocks				
6. Marking tag cover (see page 151)	Color: yellow		04.326.0056.0 100		04.326.0056.0 100
7. Marking plate			07.340.2153.0 50		07.340.2153.0 50
				or	07.340.2353.0*) 50
				*) When selecting t	he partition you have to consider
For marking systems see pages 178-17	9 and 200-202			the air and creep	· · · · · · · · · · · · · · · · · · ·



The cross sectional area is determined by the bore hole diameter of the ring terminal of 10.5 mm and the max. ring terminal width of 30 mm

BK M 10/32

		V	Α
1500 V~	1800 V	Gr. C	
300 MCM		1000 V	285
32 mm			
<u> </u>			

Type	Part no.		l. pack	
BK M 10/32	32.650.00	142.0	50	
9006 EN 60715 G-32	98.190.00	0.00	1	
WE 1/U	Z5.523.57	53.0	100	
9708	Z5.522.70	53.0	100	
	07.340.43	353.0	50	
	07.340.13	353.0	50	
VB RFK 1/95/2/32	07.205.12	27.0	20	
VB RFK 1/95/3/32	07.205.12		10	
VB RFK 1/95/4/32	07.205.14		10	
VD TITK 1/00/ 1/02	04.326.00		100	
	07.340.23		50	

Standard to DIN 46 234

В

80

115

80

115

80

115

Η,

22

25

H₂

50 62

50

62

Part no.

07.340.2153.0

07.340.2353.0

07.340.4153.0

07.340.4353.0

07.340.1153.0

07.340.1353.0

Stud Bolt Diameter		gauge NG/MCM	Hole diameter of the ring terminal	Width of ring terminal
6	2.5	14	6.5	11
6	6	10	6.5	11
6	10	8	6.5	11
6	16	6	6.5	11
6	25	4	6.5	12
6	35	2	6.5	15
8	2,5	14	8.4	14
8	6	10	8.4	14
8	10	8	8.4	14
8	16	6	8.4	14
8	25	4	8.4	16
8	35	2	8.4	16
8	50	0	8.4	18
8	70	2/0	8.4	22
8	95	3/0	8.4	24
8	120	250	8.4	24
10	6	10	10.5	18
10	10	8	10.5	
10	16	6	10.5	18
10	25	4	10.5	18
10	35	2	10.5	18
10	50	0	10.5	18
10	70	2/0	10.5	22
10	95	3/0	10.5	24
10	120	250	10.5	24
10	150	300	10.5	30
	'			

Stud bolt terminal for TS 35 mm DIN rail SELOS POWER LINE





BK M 6/35

BK M 8/35

DIN VDE 0110 UL-ratings CSA ratings Width

Approvals

field/factory wiring

V 250 V/4 kV/6¹⁾

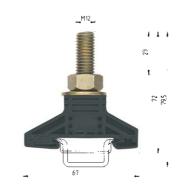
V 250 V/4 kV/6¹⁾

19.6 mm

24.6 mm

	Type	Part no. Std. pack	Туре	Part no. Std. pack
Stud bolt terminal	BK M 6/35	32.530.0053.0	BK M 8/35	32.540.0053.0
Accessories				
1. Mounting rail TS 35, DIN rail, 7.5 mm high L =	2 m 35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
Mounting rail TS 35, DIN rail 15 mm high L =	2 m 35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1
Mounting rail TS 35, G rail L =	2 m			
2. End clamp with U-foot 10 mm	wide WE 1/U	Z5.523.5753.0 100	WE 1/U	Z5.523.5753.0 100
End clamp TS35 with screw 8 mm	vide 9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0 100
End clamp TS32 with screw 7.5 mm	vide			
3. Partition plate	TW BK M 6/35	07.340.3553.0	TW BK M 8/35	07.340.3653.0
4. Jumper bar: from	E-Cu			
for 2	pole VB BK M 6/35-2	07.205.5227.0	VB BK M 8/35-2	07.205.7227.0
for 3	pole VB BK M 6/35-3	07.205.5327.0	VB BK M 8/35-3	07.205.7327.0
6. Marking tag				
For marking systems see pages 178-179 and 200-	202 available for delivery	, france 04/2002	available for delivery	frama 04/2002





BK M 10/35

V 250 V/4 kV/6¹⁾ BK M 12/35

V 250 V/4 kV/6¹⁾

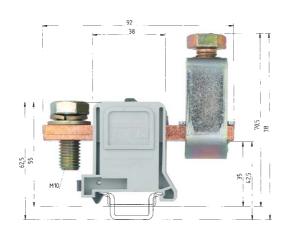
1) Without partition plate 800V / 8K V/3 with partion plate TWBK

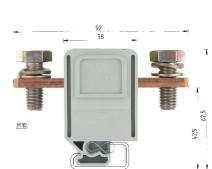
35.6 mm 35.6 mm

Туре	Part no. Std. pack	Туре		. pack	
BK M 10/35	32.550.0053.0	BK M 12/35	32.560.0053.0		
35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	
35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0	1	
WE 1/U	Z5.523.5753.0 100	WE 1/U	Z5.523.5753.0	100	
9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0	100	
TW BK M 10-12/35	07.340.3753.0	TW BK M 10-12/35	07.340.3753.0		
VB BK M 10/35-2	07.205.8227.0	VB BK M 10/35-2	07.205.9227.0		
VB BK M 10/35-3	07.205.8327.0	VB BK M 10/35-3	07.205.9327.0		
available for delivery	from 04/2002	available for delivery	from 04/2002		

Terminal blocks for up to 240 mm² (500 MCM)

selos POWER LINE





RFK 1/95... S35

RFK 1/95... PA

DIN VDE 0611 Teil 1/EN 60947-7-1
UL-ratings field/factory wiring
CSA ratings
Width Wire strip length
Approvals

fine stranded V A
16-95 mm² 1000 V 250
6-3/0 AWG 600 V 200
6-3/0 AWG 600 V 200
32 mm 27 mm

(R) (R) (R) (R) (R) (R) (R)

pprovais			CL ZSEV TV (VV RED R LIT 7)			UL ZSEV IV OVEREUR LIT		
			Туре	Part no. Std.	. pack	Туре	Part no. Sto	. pack
Configurations	Color: gray	F	RFK 1/95 F S 35	56.395.0055.0	10	RFK 1/95 F PA	59.195.0055.0	10
	Color: gray	K	RFK 1/95 K S 35	56.395.0155.0	10	RFK 1/95 K PA	59.195.0155.0	10
	Color: gray	FK	RFK 1/95 FK S 35	56.395.0255.0	10	RFK 1/95 FK PA	59.195.0255.0	10
	Color: gray	FM	RFK 1/95 FM S 35	56.395.1055.0	10	RFK 1/95 FM PA	59.195.1055.0	10
	Color: gray	FMK	RFK 1/95 FMK S 35	56.395.1255.0	10	RFK 1/95 FMK PA	59.195.1255.0	10
Accessories								
1. Mounting rail TS 35, DIN ra	ail, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1			
Mounting rail TS 35, DIN ra	ail 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1			
Mounting rail TS 35, G rail		L = 2 m				9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot	10	mm wide	WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100
End clamp TS35 with screv	w 8	mm wide	9708/2 S35	Z5.522.8553.0	100	9708/2 S35	Z5.522.8553.0	100
End clamp TS32 with screv	v 7.5	mm wide	9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100
3. Cover for RFK 1/	Cold	or: yellow		Z7.409.5753.0	10		Z7.409.5753.0	10
4. Partition/end plate PA 66/6	2.8	mm thick	TE/RFK 1/95	07.340.0353.0	50	TE/RFK 1/95	07.340.0353.0	50
5. Screws for fixation on the r	mounting rail					AM 5 x 12 DIN 933	06.065.0021.0	100
6. Jumper bar for tab connect	tion blocks f	rom E-Cu						
	for	2 blocks	VB RFK 1/95/2/32	07.205.1227.0	20	VB RFK 1/95/2/32	07.205.1227.0	20
	for	3 blocks	VB RFK 1/95/3/32	07.205.1327.0	10	VB RFK 1/95/3/32	07.205.1327.0	10
	foi	4 blocks	VB RFK 1/95/4/32	07.205.1427.0	10	VB RFK 1/95/4/32	07.205.1427.0	10





RFK 1/150... S35

fine stranded V A
70-240 mm² 70-240 mm² 1000 V 335
0 AWG - 300 MCM 600 V 275
0 AWG - 300 MCM 600 V 300
42 mm 27 mm

RFK 1/150... PA

fine stranded V A
70-240 mm² 70-240 mm² 1000 V 335
0 AWG - 300 MCM 600 V 275
0 AWG - 300 MCM 600 V 300
42 mm 27 mm

mm ²	Туре	axb	МΙ	ΜII	Н	L	F	Е
95	F, K, FK, FM, FMK	5 x 18	M 10	M 8	78	180	92	46
150	K, FK, FMK	6 x 26	M 12	M 10	85.5	200	92	46

GL \sim N NV KEWA LR \sim	11 @ B		GL SEV N (NV) KEYS LR 7	U @ B ®		
Туре	Part no. St	d. pack	Туре	Part no. Sto	d. pack	
						Config
RFK 1/150 K S35	56.397.0155.0		RFK 1/150 K PA	59.197.0155.0		F
RFK 1/150 FK S35	56.397.0255.0		RFK 1/150 FK PA	59.197.0255.0	10	Г
RFK 1/150 FMK S35	56.397.1255.0		RFK 1/150 FMK PA	59.197.1255.0	10	
						K
35 x 27 x 7,5 EN 60715	98.300.0000.0) 1				
35 x 24 x 15 EN 60715	98.360.0000.0	1				FK
			9006 EN 60715 G-32	98.190.0000.0	1	
WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100	
9708/2 S35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100	
9708	Z5.522.7053.0	100	9708	Z5.522.7053.0	100	
	Z7.409.5753.0	10		Z7.409.5753.0	10	FM
TE/RFK 1/150 - 240 PA	07.340.1053.0	50	TE/RFK 1/150 - 240 PA	07.340.1053.0	50	
			AM 5 x 12 DIN 933	06.065.0021.0	100	
VB RFK 1/185/2	07.201.4227.0	10	VB RFK 1/185/2	07.201.4227.0	10	FMK
VB RFK 1/185/3	07.201.4327.0		VB RFK 1/185/3	07.201.4327.0		
VB RFK 1/185/4	07.201.4427.0		VB RFK 1/185/4	07.201.4427.0		

Configurations:

F H



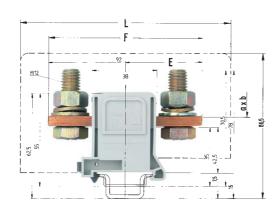


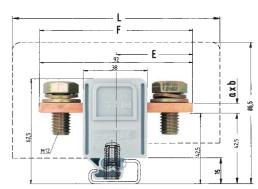




Terminal blocks for up to 240 mm² (500 MCM)

selos POWER LINE





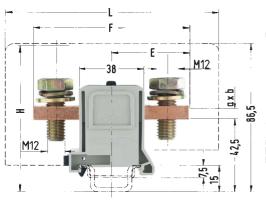
RFK 1/185... S35

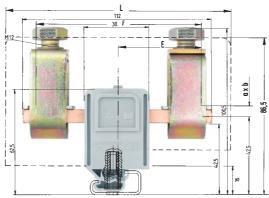
RFK 1/185... PA

V EN 60 947-7-1/DIN VDE 0611 T1 1000 V/8 kV/3 353 1000 V/8 kV/3 353 600 V 0 AWG - 400 kcmil 0 AWG - 400 kcmil 600 V **UL-ratings** field/factory wiring 375 375 CSA ratings 0 AWG - 400 MCM 600 V 375 0 AWG - 400 MCM 600 V 375 Width Wire strip length 42 mm 27 mm 42 mm 27 mm

Approvals			$\stackrel{\frown}{\mathbb{N}}$ $\stackrel{\frown}{\mathbb{N}}$ $\stackrel{\frown}{\mathbb{N}}$ $\stackrel{\frown}{\mathbb{N}}$ $\stackrel{\frown}{\mathbb{N}}$ $\stackrel{\frown}{\mathbb{N}}$ $\stackrel{\frown}{\mathbb{N}}$ $\stackrel{\frown}{\mathbb{N}}$	1 (1) (B) (6)		\sim N N KETT IR $ eal$	7 @ B 🚷	
			Туре	Part no. Std	. pack	Туре	Part no. Std	. pack
Configuration	Color: gray	F	RFK 1/185 F S 35	56.398.0055.0	10	RFK 1/185 F PA	59.198.0055.0	10
	Color: gray	K						
	Color: gray	FK						
	Color: gray	FM	RFK 1/185 FM S 35	56.398.1055.0	10	RFK 1/185 FM PA	59.198.1055.0	10
	Color: gray	FMK						
Accessories								
	DIN rail, 7.5 mm high L	– 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1			
	DIN rail 15 mm high L		35 x 24 x 15 EN 60715	98.360.0000.0	1			
Mounting rail TS 35,		= 2 m	30 X 24 X 10 LIV 00/10	55.555.5550.6		9006 EN 60715 G-32	98.190.0000.0	1
End clamp with U-fo			WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	
End clamp TS32 with		n wide	9708/2 S35	Z5.523.8553.0		VVL 2/0	20.020.0000.0	100
End clamp TS32 with sc			3700/2 333	23.322.0333.0	100	9708	Z5.522.7053.0	100
3. Cover for RFK 1/	Color:			Z7.409.5853.0	10	3700	Z7.409.5853.0	100
Partition/end plate P			TE/RFK 1/150 - 240 PA	07.340.1053.0	-	TE/RFK 1/150 - 240 PA	07.340.1053.0	50
Screws for fixation o	•	TUTION	12/11/K 1/130 24017A	07.040.1000.0	50	AM 5 x 12 DIN 933	06.065.0021.0	
6. Jumper bar for tab co		n E-Cu				AIVI 3 X IZ DIIV 333	00.003.0021.0	100
o. damper bar for tab o		blocks	VB RFK 1/185/2	07.201.4227.0	10	VB RFK 1/185/2	07.201.4227.0	10
		blocks	VB RFK 1/185/3	07.201.4227.0	10	VB RFK 1/185/3	07.201.4327.0	10
		blocks	VB RFK 1/185/4	07.201.4427.0	10	VB RFK 1/185/4	07.201.4427.0	10
	101 4	DIOCKS	VB 111 K 1/103/4	07.201.4427.0	10	VD 111 K 1/ 103/4	07.201.4427.0	10

For marking systems see pages 178-179 and 200-202





RFK 1/240... S35

fine stranded stranded V Α 70-240 mm² 70-240 mm² 1000 V/8 kV/3 415 600 V 375 0 AWG - 500 kcmil 3/0 AWG - 500 MCM 600 V 425 42 mm 27 mm

RFK 1/240... PA

fine stranded stranded V 70-240 mm² 70-240 mm² 1000 V/8 kV/3 415 0 AWG - 500 kcmil 600 V 375 3/0 AWG - 500 MCM 600 V 425 42 mm 27 mm

Α

mm ²	Type	axb	МΙ	ΜII	Н	L	F	E
185	F, FM	6 x 26	M 12	-	-	200	92	46
	F, FM	8 x 26	M 12	-	-	200	92	46
240	FK, FMK	8 x 26	M 12	M 12	100.5	200	102	46
	K	8 x 26	-	M 12	100.5	200	112	56

SEV	$\widehat{\mathbf{N}}$	(NV)	Kema	LR	N	1	B	₽	
-----	------------------------	------	------	----	----------	---	---	----------	--

<u></u>	(N)	(NV)	K EWY	IR	a١	(1)	B) (8	9
/SEV \	(14)	(MA)	NEU R	Ln	74	Mr.	(E)	~/

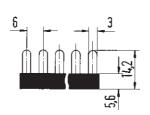
\sim N NV KEMA LR $ ightarrow$	7 @ B		\sim N N N KEMA LR $ ightarrow$	1 1 1 B			
Туре	Part no. Std.	. pack	Type	Part no. Std	. pack		
RFK 1/240 F S 35*)	56.399.0055.0	10	RFK 1/240 F PA*)	59.199.0055.0	10	Confid	gurations:
RFK 1/240 K S 35	56.399.0155.0	10	RFK 1/240 K PA	59.199.0155.0	10		
RFK 1/240 FK S 35*)	56.399.0255.0	10	RFK 1/240 FK PA*)	59.199.0255.0	10	F	
RFK 1/240 FM S 35*)	56.399.1055.0	10	RFK 1/240 FM PA*)	59.199.1055.0	10		
RFK 1/240 FMK S 35*)	56.399.1255.0	10	RFK 1/240 FMK PA*)	59.199.1255.0	10		
						K	
						K	
35 x 27 x 7,5 EN 60715	98.300.0000.0	1					
35 x 24 x 15 EN 60715	98.360.0000.0	1				FK	
			9006 EN 60715 G-32	98.190.0000.0	1		
WE 2/U	Z5.523.5653.0	100	WE 2/U	Z5.523.5653.0	100		
9708/2 S 35	Z5.522.8553.0	100					·
			9708	Z5.522.7053.0	100		
	Z7.409.5853.0	10		Z7.409.5853.0	10	FM	<u>#</u>
TE/RFK 1/150 - 240 PA	07.340.1053.0	50	TE/RFK 1/150 - 240 PA	07.340.1053.0	50		لطب تحليا
			AM 5 x 12 DIN 933	06.065.0021.0	100		
						FMK	
VB RFK 1/240/2	07.201.8227.0	10	VB RFK 1/240/2	07.201.8227.0	10	FIVIR	
VB RFK 1/240/3	07.201.8327.0	10	VB RFK 1/240/3	07.201.8327.0	10		
VB RFK 1/240/4	07.201.8427.0	10	VB RFK 1/240/4	07.201.8427.0	10		
*) Only use ring terminal	s accord. to DIN 462	34					

Accessories for DIN rail terminal blocks SEIOS

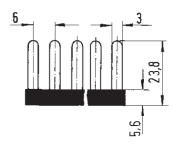








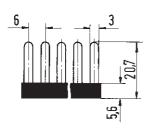




Jumper comb, insulated

ype Part no. Std. pack	Type	Part no. Std. pack	Type	Part no. Std. pack
or terminal blocks type	WK 4 E/U		WK 4 E/U	
	1 mm thick		1 mm thi	ck, angled
NK 2,5-4 KI/U	2pole IVB WK 4 E-2	Z7.255.2227.0 10	2pole IVBS WK 4	E-2 Z7.256.4227.0 10
NK 2,5-4 KI/U-NGN	3pole IVB WK 4 E-3	Z7.255.2327.0 10	3pole IVBS WK 4	E-3 Z7.256.4327.0 10
NK 2,5-4 KI/U-PGN	4pole IVB WK 4 E-4	Z7.255.2427.0 10	4pole IVBS WK 4	E-4 Z7.256.4427.0 10
NK 2,5-4 KI SL	5pole IVB WK 4 E-5	Z7.255.2527.0 10	5pole IVBS WK 4	E-5 Z7.256.4527.0 10
NK 2,5-4 KI SL-NGN	6pole IVB WK 4 E-6	Z7.255.2627.0 10	6pole IVBS WK 4	E-6 Z7.256.4627.0 10
NK 2,5-4 KI SL-PGN	7pole IVB WK 4 E-7	Z7.255.2727.0 10	7pole IVBS WK 4	E-7 Z7.256.4727.0 10
NK 2,5-3 D/U	8pole IVB WK 4 E-8	Z7.255.2827.0 10	8pole IVBS WK 4	E-8 Z7.256.4827.0 10
NK 2,5-3 D/U-NGN	9pole IVB WK 4 E-9	Z7.255.2927.0 10	9pole IVBS WK 4	E-9 Z7.256.4927.0 10
NK 2,5-3 D/U-PGN	10pole IVB WK 4 E-10	Z7.255.3027.0 10	10pole IVBS WK 4	E-10 Z7.256.5027.0 10
NK 2,5-3 D SL	11pole IVB WK 4 E-11	Z7.255.3127.0 10	11 pole IVBS WK 4	E-11 Z7.256.5127.0 10
NK 2,5-3 D SL-NGN	12pole IVB WK 4 E-12	Z7.255.3227.0 10	12pole IVBS WK 4	E-12 Z7.256.5227.0 10
NK 2,5-3 D SL-PGN				
0.8 mm thick, angled	for larring flor literals	h.	for larger 45 let	la alsa ambi
2pole VB WK 2,5-K-2 red Z7.267.0227.5 10	for lower tier block	s only	for lower tier bl	ocks only
Spole IVB WK 2,5-K-3 red Z7.267.0327.5 10				
Ipole IVB WK 2,5-K-4 red Z7.267.0427.5 10				
5pole IVB WK 2,5-K-5 red Z7.267.0527.5 10				
Spole IVB WK 2,5-K-6 red Z7.267.0627.5 10				
7pole IVB WK 2,5-K-7 red Z7.267.0727.5 10				
3pole IVB WK 2,5-K-8 red Z7.267.0827.5 10				
9pole IVB WK 2,5-K-9 red Z7.267.0927.5 10				
Opole IVB WK 2,5-K-10 red Z7.267.1027.5 10				
1pole IVB WK 2,5-K-11 red Z7.267.1127.5 10				
2pole IVB WK 2,5-K-12 red Z7.267.1227.5 10				
70pole IVB WK 2,5-K M-70 red Z7.267.0027.5 10				
0.8 mm thick, angled				
2pole IVB WK 2,5-K-2 blue Z7.267.0227.6 10				
Spole IVB WK 2,5-K-3 blue Z7.267.0327.6 10				
Poole IVB WK 2,5-K-4 blue Z7.267.0427.6 10				
Spole IVB WK 2,5-K-5 blue Z7.267.0527.6 10				
Spole IVB WK 2,5-K-6 blue Z7.267.0627.6 10				
7pole IVB WK 2,5-K-7 blue Z7.267.0727.6 10				
Rpole IVB WK 2,5-K-8 blue Z7.267.0827.6 10				
Opole IVB WK 2,5-K-9 blue Z7.267.0927.6 10				
Opole VB WK 2,5-K-10 blue Z7.267.1027.6 10				
1 pole IVB WK 2,5-K-11 blue Z7.267.1127.6 10				
2pole IVB WK 2,5-K-12 blue Z7.267.1127.6 10				
70pole VB WK 2,5-K M-70blue Z7.267.0027.6 10				
Opolo 10 111 12,011 111-100106 21.201.0021.0 10				







Switchable connecting link

Туре	Part no. Std. pack	Type	Part no. Std. pack	Туре	Part no. Std. pack
WK 4 TKG/U		for terminal block t	уре		
WK 4 TKM/U			Tr -		
WK 4/U		1407 0 = 0.1	77.000.4000.0 50		
WK 4 TKS D/U		WK 2,5/U	Z7.269.4023.0 50		
WK 4 TKG-TRST/	/U	WK 4/U	Z7.269.4123.0 50		
0.5 mm thick					
2pole IVB 0.5 WK 4	L2 Z7.255.0227.0 10				
	L3 Z7.255.0327.0 10				
	4 Z7.255.0427.0 10	WK 6/U	Z7.269.4223.0 50		
	L5 Z7.255.0527.0 10				
	L6 Z7.255.0627.0 10				
	L7 Z7.255.0727.0 10	WK 4 E/	Z7.269.2923.0 50		
1	L8 Z7.255.0827.0 10	VVIX 4 E/	Z7.269.2923.0 50		
	L9 Z7.255.0927.0 10				
	L10 Z7.255.1027.0 10				
	L11 Z7.255.1127.0 10	WKM 2,5	Z7.269.3623.0 50		
	L12 Z7.255.1227.0 10	VVICIVI 2,3	27.203.3023.0 30		
1 mm thic	k				
2pole IVB 1 WK 4		WKM 4	Z7.269.0623.0 50		
3pole IVB 1 WK 4					
4pole IVB 1 WK 4					
5pole IVB 1 WK 4		Switchable con	necting links reduce the		
6pole IVB 1 WK 4		nominal voltage	e to 380 V!		
7pole IVB 1 WK 4					
8pole IVB 1 WK 4		Link:	nickel-plated brass		
9pole IVB 1 WK 4			· · · · · · · · · · · · · · · · · · ·		
	-10 Z7.255.5027.0 10	Bolt:	nickel-plated brass		
	-11 Z7.255.5127.0 10	Screw:	zinc-plated steel		
	-12 Z7.255.5227.0 10				
	27.200.0227.0				

Accessories for DIN rail terminal blocks SEOS





Cross connectors (jumper bars), insulated

Гуре	Part no. Std. pack	Туре	Part no. Std. pa	nck	Туре	Part no. St	d. pack
for terminal blocks type		WK 4 TKG/U WK 4 TKM/U	6 mm spacing Scr	ew: M 3	WK 4 E/U WKM 4	6 mm spacing	Screw: M 3
WK 2,5 U	5 mm spacing Screw: M 2.	5 WK 4/U			2pole IVB WK 4E/U-2	Z7.271.2227.0	10
WK 2,5-4 KOI/U		WK 4 TKS D/U			3pole IVB WK 4E/U-3	Z7.271.2327.0	10
WK 2,5 U/8113 S/H		WK 4 TKG-TRST/U			4pole IVB WK 4E/U-4	Z7.271.2427.0	10
2pole IVB WK 2,5-2	Z7.280.2227.0 10	12pole IVB WKI 4-12	Z7.271.5227.0	10	5pole IVB WK 4E/U-5	Z7.271.2527.0	10
3pole VB WK 2,5-3	Z7.280.2327.0 10	·			6pole IVB WK 4E/U-6	Z7.271.2627.0	10
4pole IVB WK 2,5-4	Z7.280.2427.0 10	WK 4/U	6 mm spacing Scr	ew: M 3	7pole IVB WK 4E/U-7	Z7.271.2727.0	10
5pole IVB WK 2,5-5	Z7.280.2527.0 10	WK 4 TKS D/U			8pole IVB WK 4E/U-8	Z7.271.2827.0	10
6pole IVB WK 2,5-6	Z7.280.2627.0 10	WK 4 3 S 1 K/U			9pole IVB WK 4E/U-9	Z7.271.2927.0	10
7pole IVB WK 2,5-7	Z7.280.2727.0 10	WK 4 3-6 S 1 K/U			10pole IVB WK 4E/U-10		
8pole IVB WK 2,5-8	Z7.280.2827.0 10	WK 4 5 S 2,8 1 K/U			11pole IVB WK 4E/U-11		
9pole IVB WK 2,5-9	Z7.280.2927.0 10	WK 4 3 S 1 K/W/U			12pole IVB WK 4E/U-12		
10pole IVB WK 2,5-10	Z7.280.3027.0 10	WK 4 3-6 S 1 K/W/U	J			,	
11pole IVB WK 2,5-11	Z7.280.3127.0 10	WK 4/U F1			WK 4/D 1/2 U	6 mm spacing	Screw: M 3
12pole IVB WK 2,5-12	Z7.280.3227.0 10	WK 4/U F2			WK 4/D 2/2 U		
,		2pole IVB WK 4-2	Z7.281.1227.0	10	2pole IVB WK 4/D2	Z7.281.7227.0	10
WK 2,5-3 D/U	6 mm spacing Screw: M 2.			10	3pole IVB WK 4/D3	Z7.281.7327.0	
WK 2,5-3 D SL	o min spaonig colour. In E.	4pole IVB WK 4-4		10	4pole IVB WK 4/D4	Z7.281.7427.0	
2pole IVB WK 2,5-3 D-2	77 270 0227 0 10	5pole IVB WK 4-5		10	5pole IVB WK 4/D5	Z7.281.7527.0	
3pole VB WK 2,5-3 D-3	Z7.270.0327.0 10	6pole IVB WK 4-6		10	6pole IVB WK 4/D6	Z7.281.7627.0	
4pole IVB WK 2,5-3 D-4		7pole IVB WK 4-7		10	7pole IVB WK 4/D7	Z7.281.7727.0	
5pole IVB WK 2,5-3 D-5		8pole IVB WK 4-8		10	8pole IVB WK 4/D8	Z7.281.7827.0	
6pole IVB WK 2,5-3 D-6		9pole IVB WK 4-9		10	9pole IVB WK 4/D9	Z7.281.7927.0	
7pole IVB WK 2,5-3 D-7		10pole IVB WK 4-10		10	10pole IVB WK 4/D10		
8pole IVB WK 2,5-3 D-8		11pole IVB WK 4-11		10	11 pole IVB WK 4/D11		
9pole IVB WK 2,5-3 D-9		12pole IVB WK 4-11		10	12pole IVB WK 4/D12		
10pole IVB WK 2,5-3 D-10		12pole IVB VVK 4-12	27.201.2227.0	10	12pole IVB WK 4/D12	27.201.0227.0	10
11pole IVB WK 2,5-3 D-10					WK 4/DEU	6 mm spacing	Caraur M 2
1 1 pole IVB WK 2,5-3 D-11 1 2 pole IVB WK 2,5-3 D-12					2pole IVB WK 4/DEU-2		
					3pole IVB WK 4/DEU-3		
70pole IVB WK 2,5-3 D M-70	27.270.0027.0 10						
					4pole IVB WK 4/DEU-4		
					5pole IVB WK 4/DEU-5		
					6pole IVB WK 4/DEU-6		
					7pole IVB WK 4/DEU-7		
					8pole IVB WK 4/DEU-8		
					9pole IVB WK 4/DEU-9		
					10pole IVB WK 4/DEU-10		
					11 pole IVB WK 4/DEU-11		
					12pole IVB WK 4/DEU-12	Z7.271.1227.0	10

Туре	Part no. Std.	pack	Туре	Part no.	Std. pack
WK 6/U	8 mm spacing S	crew: M 3	WKN 16/U	12 mm sp	acing Screw: M 4
2pole IVB WK 6-2	Z7.282.2227.0	10	2pole IVB WKN 16-2	Z7.284.22	227.0 10
3pole IVB WK 6-3	Z7.282.2327.0	10	3pole IVB WKN 16-3	Z7.284.23	327.0 10
4pole IVB WK 6-4	Z7.282.2427.0	10	4pole IVB WKN 16-4	Z7.284.24	27.0 10
5pole IVB WK 6-5	Z7.282.2527.0	10	5pole IVB WKN 16-5	Z7.284.25	527.0 10
6pole IVB WK 6-6	Z7.282.2627.0	10	6pole IVB WKN 16-6	Z7.284.26	627.0 10
7pole IVB WK 6-7	Z7.282.2727.0	10	7pole IVB WKN 16-7	Z7.284.27	27.0 10
8pole IVB WK 6-8	Z7.282.2827.0	10	8pole IVB WKN 16-8	Z7.284.28	327.0 10
9pole IVB WK 6-9	Z7.282.2927.0	10	9pole IVB WKN 16-9	Z7.284.29	927.0 10
10pole IVB WK 6-10	Z7.282.3027.0	10	10pole IVB WKN 16-10	Z7.284.30	27.0 10
11pole IVB WK 6-11	Z7.282.3127.0	10	11pole IVB WKN 16-11	Z7.284.31	27.0 10
12pole IVB WK 6-12	Z7.282.3227.0	10	12pole IVB WKN 16-12	Z7.284.32	227.0 10
'			30pole IVB WKN 16 M-3		
WKN 10/U	10 mm spacing S	Screw: M 3.5			
2pole IVB WKN 10-2	Z7.283.2227.0	10	WKN 35/U	16 mm sp	acing Screw: M 5
3pole IVB WKN 10-3	Z7.283.2327.0	10	2pole IVB WKN 35-2	Z7.285.22	
4pole IVB WKN 10-4	Z7.283.2427.0	10	3pole IVB WKN 35-3	Z7.285.23	
5pole IVB WKN 10-5	Z7.283.2527.0	10	4pole IVB WKN 35-4	Z7.285.24	
6pole IVB WKN 10-6	Z7.283.2627.0	10	5pole IVB WKN 35-5	Z7.285.25	
7pole IVB WKN 10-7	Z7.283.2727.0	10	6pole IVB WKN 35-6	Z7.285.26	
8pole IVB WKN 10-8	Z7.283.2827.0	10	7pole IVB WKN 35-7	Z7.285.27	
9pole IVB WKN 10-9	Z7.283.2927.0	10	8pole IVB WKN 35-8	Z7.285.28	
10pole IVB WKN 10-10	Z7.283.3027.0	10	9pole IVB WKN 35-9	Z7.285.29	
11pole IVB WKN 10-11	Z7.283.3127.0	10	10pole IVB WKN 35-10	Z7.285.30	
12pole IVB WKN 10-12	Z7.283.3227.0	10	11pole IVB WKN 35-11	Z7.285.31	
12pole IVD VVKIV 10-12	27.200.3227.0	10	12pole IVB WKN 35-12	Z7.285.32	
			20pole IVB WKN 35-12		
			Zopole IVB VVKIV 33 IVI-2	.0 27.200.20	127.0 10

Accessories for DIN rail terminal blocks







Cross connectors, (jumper bars) uninsulated

Туре	Part no. Std.	. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
or terminal blocks type			WK 4/U	6 mm spacir	ng Screw: M 3	WK 4/3-6 Sk	O 6 mm sp	pacing Screw: M 3
NK 2,5/U	5 mm spacing S	Screw: M 2.5	WK 4TKS D/U	-		2pole 2072	/2 Z7.220.02	27.0 50
WK 2,5 - 4 KOI/U			WK 4 3 S 1 K/U			3pole 2072	/3 Z7.220.03	27.0 50
WK 2,5 U/8113 S/H			WK 4 3-6 S 1 K/U			4pole 2072		
WKN 2,5 E/U			WK 4 5 S 2,8 1 K/U			5pole 2072		
2pole VB WK 2,5-2	Z7.280.0227.0	10	WK 4 3 S 1 K/IW/U			6pole 2072		
3pole VB WK 2,5-3	Z7.280.0327.0	10	WK 4 3-6 S 1 K/IW/			70pole 2072		
4pole VB WK 2,5-4	Z7.280.0427.0	10	WK 4/U F1	•		7 000.0 2072	27.210.10	27.0
5pole VB WK 2,5-5	Z7.280.0527.0	10	WK 4/U F2			WK/5 S/U	6 mm sr	pacing Screw: M 3
6pole VB WK 2,5-6	Z7.280.0627.0	10	2pole VB WK 4-2	Z7.281.0227.0	10	WK/5-10 S/I		duning Colows III o
80pole VB WK 2,5 M-80		10	3pole VB WK 4-3	Z7.281.0327.0		WK/3-6 S/U		
00poie VD VVK 2,3 IVI-00	27.200.0027.0	10	4pole VB WK 4-4	Z7.281.0427.0		WK/4 S/U		
WKM 2,5/15	5 mm spacing	Saraw: M 2 5	5pole VB WK 4-5	Z7.281.0527.0		WK/4-8 S/U		
	5 min spacing	Sciew. W 2.5	· ·	Z7.281.0627.0			/6-2 Z7.211.02	27.0 50
WKM 2,5 F1/15			6pole VB WK 4-6			2pole 9703		
WKM 2,5 F2/15	/45		70pole VB WK 4 M-70	Z7.281.0027.0	10	3pole 9703		
WKM 2,5/2 S 2,8 1 K	/15		W// 4/D 4/0 H			4pole 9703		
WKM 2,5 TP1 O/15			WK 4/D 1/2 U	6 mm spacii	ng Screw: M 3	5pole 9703		
WKM 2,5 TP2 O/15	0 77 045 4007 0	50	WK 4/D 2/2 U	77 004 0007 0	40	6pole 9703		
2pole VB WKM 2,5/15-		50	2pole VB WK 4 D2	Z7.281.6227.0		70pole 9703	/6 M-70 Z7.211.00	27.0 10
3pole VB WKM 2,5/15-		50	3pole VB WK 4 D3	Z7.281.6327.0				
4pole VB WKM 2,5/15-		50	4pole VB WK 4 D4	Z7.281.6427.0				
5pole VB WKM 2,5/15-		50	5pole VB WK 4 D5	Z7.281.6527.0				
6pole VB WKM 2,5/15-		50	6pole VB WK 4 D6	Z7.281.6627.0				
60pole VB WKM 2,5/15 M-	i0 Z7.215.4027.0	10	70pole VB WK 4 D M-	70 Z7.281.6027.0	10			
WK/3 S/IW/U	6 mm spacing	Screw: M 3	WKM 4/15	6 mm spacir	ng Screw: M 3			
			WK 4/D EU					
WK/3 - 6 S/IW/U			WK 4 E/U for upper	tier block				
WK/4 S/IW/U			WK 4 E/U GU ORA	NGE				
WK/4-8 S/IW/U			WK 4 E/U GO					
2pole VB WK/S/IW/L	J-2 Z7.281.3227.0	10	WK 4 E/U G2					
3pole VB WK/S/IW/L	J-3 Z7.281.3327.0	10	WK 4 E/U G1 ORAN	NGE				
4pole VB WK/S/IW/L		10	WK 4 E/U G-URL					
5pole VB WK/S/IW/L	J-5 Z7.281.3527.0	10	WK 4 E/U G-ULR					
6pole VB WK/S/IW/L		10	WK 4 E/U VB SCHV	VARZ				
20pole VB WK/S/IW/U-		10	2pole 9215 - 2	Z7.210.3227.0	50			
			3pole 9215 - 3	Z7.210.3327.0				
			4pole 9215 - 4	Z7.210.3427.0				
			500le 9215 - 5					
			5pole 9215 - 5	Z7.210.3527.0				
			5pole 9215 - 5 6pole 9215 - 6 70pole 9215 M-70	Z7.210.3627.0 Z7.210.3627.0 Z7.210.3027.0	50			



3pole VB WK 6-3 4pole VB WK 6-4 5pole VB WK 6-5 6pole VB WK 6-6 0pole VB WK 6-6 0pole VB WK 6 M-40 VK 10/Si U 5 x 20 VK 10/Si U 5 x 30 VK 10/Si U 5 x 30 VK 10/Si UD 2pole VB WK 10/Si-2 3pole VB WK 10/Si-3 4pole VB WK 10/Si-3 5pole VB WK 10/Si-5	8 mm spacing 27.282.0227.0 27.282.0327.0 27.282.0427.0 27.282.0527.0 27.282.0527.0 27.282.0027.0 Spacing: 8 mm 27.287.0227.0 27.287.0227.0 27.287.0227.0 27.287.0327.0 27.287.0327.0	10 10 10 10 10 10
WK 10/Si U 5 x 20 WK 10/Si U 5 x 25 WK 10/Si U 5 x 30 WK 10/Si U 6,3 x 32	Z7.282.0327.0 Z7.282.0427.0 Z7.282.0527.0 Z7.282.0627.0 Z7.282.0027.0 Spacing: 8 mm	10 10 10 10 10 10 8 Screw: M 3
4pole VB WK 6-4 5pole VB WK 6-5 6pole VB WK 6-6 40pole VB WK 6 6M-40 WK 10/Si U 5 x 20 WK 10/Si U 5 x 30 WK 10/Si U 5 x 30 WK 10/Si U 6,3 x 32 WK 10/Si UD 2pole VB WK 10/Si-2 3pole VB WK 10/Si-3 4pole VB WK 10/Si-4 5pole VB WK 10/Si-5	Z7.282.0427.0 Z7.282.0527.0 Z7.282.0627.0 Z7.282.0027.0 Z7.282.0027.0 Spacing: 8 mm Z7.287.0227.0 Z7.287.0227.0	10 10 10 10 10 8 Screw: M 3
5pole VB WK 6-5 6pole VB WK 6-6 40pole VB WK 6 M-40 WK 10/Si U 5 x 20 WK 10/Si U 5 x 30 WK 10/Si U 5,3 x 32 WK 10/Si UD 2pole VB WK 10/Si-2 3pole VB WK 10/Si-3 4pole VB WK 10/Si-4 5pole VB WK 10/Si-5	Z7.282.0527.0 Z7.282.0627.0 Z7.282.0027.0 Spacing: 8 mm Z7.287.0227.0 Z7.287.0227.0	10 10 10 2 Screw: M 3
6pole VB WK 6-6 40pole VB WK 6 M-40 WK 10/Si U 5 x 20 WK 10/Si U 5 x 30 WK 10/Si U 5,3 x 32 WK 10/Si UD 2pole VB WK 10/Si-2 3pole VB WK 10/Si-3 4pole VB WK 10/Si-4 5pole VB WK 10/Si-5	Z7.282.0627.0 Z7.282.0027.0 Spacing: 8 mm Z7.287.0227.0 Z7.287.0227.0 Z7.287.0327.0	10 10 10 8 Screw: M 3
40pole VB WK 6 M-40 WK 10/Si U 5 x 20 WK 10/Si U 5 x 25 WK 10/Si U 5 x 30 WK 10/Si U 6,3 x 32 WK 10/Si UD 2pole VB WK 10/Si-2 3pole VB WK 10/Si-3 4pole VB WK 10/Si-4 5pole VB WK 10/Si-5	Z7.282.0027.0 Spacing: 8 mm Z7.287.0227.0 Z7.287.0227.0 Z7.287.0327.0	10 Screw: M 3
WK 10/Si U 5 x 20 WK 10/Si U 5 x 25 WK 10/Si U 5 x 30 WK 10/Si U 6,3 x 32 WK 10/Si UD 2pole VB WK 10/Si-2 3pole VB WK 10/Si-3 4pole VB WK 10/Si-4 5pole VB WK 10/Si-5	Spacing: 8 mm 27.287.0227.0 27.287.0327.0	10
WK 10/Si U 5 x 25 WK 10/Si U 5 x 30 WK 10/Si U 6,3 x 32 WK 10/Si UD 2pole VB WK 10/Si-2 3pole VB WK 10/Si-3 4pole VB WK 10/Si-4 5pole VB WK 10/Si-5	Z7.287.0227.0 Z7.287.0327.0	10
WK 10/Si U 6,3 x 32 WK 10/Si UD 2pole VB WK 10/Si-2 3pole VB WK 10/Si-3 4pole VB WK 10/Si-4 5pole VB WK 10/Si-5	Z7.287.0227.0 Z7.287.0327.0	
2pole VB WK 10/Si-2 3pole VB WK 10/Si-3 4pole VB WK 10/Si-4 5pole VB WK 10/Si-5	Z7.287.0327.0	
3pole VB WK 10/Si-3 4pole VB WK 10/Si-4 5pole VB WK 10/Si-5	Z7.287.0327.0	
4pole VB WK 10/Si-4 5pole VB WK 10/Si-5		10
5pole VB WK 10/Si-5	77.287.0427.0	
		10
6nole VB WK 10/Si-6	Z7.287.0527.0	10
	Z7.287.0627.0	10
30pole VB WK 10/Si M-30	Z7.287.0027.0	10
WKN 10/U	10 mm spacing	Screw: M 3.5
2pole VB WKN 10-2	Z7.283.6227.0	10
3pole VB WKN 10-3	Z7.283.6327.0	10
4pole VB WKN 10-4	Z7.283.6427.0	10
5pole VB WKN 10-5	Z7.283.6527.0	10
6pole VB WKN 10-6	Z7.283.6627.0	10
40pole VB WKN 10 M-40	Z7.283.6027.0	10
WKN 70/U	Spacing: 24 mr	m Screw: M 6
2pole VB WKN 70-2	Z7.286.3227.0	5
3pole VB WKN 70-3	Z7.286.3327.0	5
4pole VB WKN 70-4	Z7.286.3427.0	5
5pole VB WKN 70-5	Z7.286.3527.0	5
6pole VB WKN 70-6	Z7.286.3627.0	5
WKN 150/U	28 mm spacing	Screw: M 8
2pole VB WKN 150-2	Z7.287.1227.0	5
3pole VB WKN 150-3	Z7.287.1327.0	5

Accessories for DIN rail terminal blocks SEIOS



Single cover

for cross connector (jumper bar)

Гуре	Part no. Std. pack	Type	Part no. Std. pack
for terminal block ty	уре	WK 4 E/U	
		WKM 4/15	
WK 2,5/U		AD VB 4/15 GELB	04.326.2953.8 10
WK 2,5-4 KOI/U	J		
WK 2,5 E/U			
AD VB 2,5 GELB	04.326.2053.8 10	WK6/U	
		WK 6 ETK/U	
		AD VB 6 GELB	04.326.2253.8 10
WKM 2,5 F			
WKM 2,5/15			
AD VB 2,5/15 GELB	04.326.3053.8 10	WKN 10/U	
		WKN 10 ETK/35	
		AD VB 10 GELB	04.326.2353.8 10
WK/3 S/			
WK 4/U			
WK 4/U F		WK 10/Si U witl	nout marking facilities
WK 4 SL/35			04.312.2056.10
WK 4 ETK/U			
WK 4/D			
WK 4 TKS D/U		WKN 35/U	
WK/4 S/		AD VB 35 GELB	04.326.2553.8 10
WK 4 3			
WK 4 5			
WK 5		WKN 70/U	
AD VB 4 GELB	04.326.2153.8 10	AD VB 70 GELB	04.326.2653.8 10







Partition plate

Partition

ith marking facilitie

with marking facilit	vith marking facilities				with marking facilities			
Туре	Part no.	Std.	pack	Type	Part no.	Std. pack		
for terminal block type								
WK 2,5/U				for TS 32 + 35	Z7.311.175	53.0		
TS 2,5 GELB	07.311.20	053.8	10	for TS 15	Z7.311.275	53.0 10		
WK/3								
WK 4/U								
WK 4/								
WK 4 3								
WK 4 5 S								
WK 5								
TS 4 GELB	07.311.2	153.8	10					
WK 6/U								
TS 6 GELB	07.311.22	253.8	10					
WKM 2,5 F								
TSM 2,5/15	07.311.28	353.8	10					
WKM 4/15								
TS 4/15 GELB	07.311.29	953.8	10					
Partition plate with o	cover							
WKN 16/U								
TSN AD 16 GELB	07.311.8	553.8	10					

Accessories for DIN rail terminal blocks





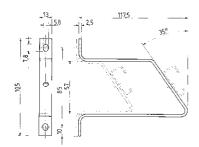


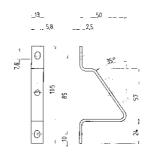
Jumper combs, uninsulated

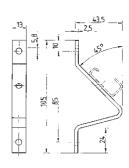
(for rated voltages of up to 50 V)

Туре	Part no.	Std. pack	Туре	Part no. S	td. pack	Type		Part no. S	Std. pack
for terminal block type			WK 4 E/U			WK 4	TKM/U		
			1 mm thick			WK 4/	'U		
9785 U/10Ω bis 50 I	kΩ		2pole VB WK 4 E-2	07.255.2227.	0 10	WK 4	TKS D/U		
9785 U/10Ω-SPT bis	s 50 kΩ-SPT		3pole VB WK 4 E-3	07.255.2327.	0 10	WK 4	TKG-TRST/U		
9786 U/12			4pole VB WK 4 E-4	07.255.2427.	0 10		0.5 mm thick		
9786 U/12 D			5pole VB WK 4 E-5	07.255.2527.	0 10	2pole	VB 0,5 WK 42	07.255.0227.	0 50
9786 U/12 D-G1			6pole VB WK 4 E-6	07.255.2627.		3pole	VB 0,5 WK 43	07.255.0327.	0 50
9786 U/12 G 2-4 K			7pole VB WK 4 E-7	07.255.2727.		,	VB 0,5 WK 44		
9786 U/12 G 2-3 K			8pole VB WK 4 E-8	07.255.2827.			VB 0,5 WK 45		
1 mm thick			9pole VB WK 4 E-9	07.255.2927.			VB 0,5 WK 46		
2pole VB 9786-2	07.253.0227.0	50	10pole VB WK 4 E-10	07.255.3027.		,	VB 0,5 WK 47		
3pole VB 9786-3	07.253.0327.0	50	11pole VB WK 4 E-11	07.255.3127.			VB 0,5 WK 48		
4pole VB 9786-4	07.253.0427.0	50	12pole VB WK 4 E-12	07.255.3227.			VB 0,5 WK 49		
			70pole VB WK 4 EM-70	07.255.2027.	0 10		VB 0,5 WK 410		
							VB 0,5 WK 411		
			1 mm thick, ang				VB 0,5 WK 412		
			2pole VBS WK 4 E-2	07.256.4227.		/Upole	VB 0,5 WK 4 M-70	J 07.255.0027.	0 10
			3pole VBS WK 4 E-3	07.256.4327.			4 .1:1		
			4pole VBS WK 4 E-4	07.256.4427.		0 1	1 mm thick	07.055.4007	0 40
			5pole VVBS WK 4 E-5	07.256.4527.			VB 1 WK 42	07.255.4227.	
			6pole VBS WK 4 E-6	07.256.4627.		'	VB 1 WK 43	07.255.4327.	
			7pole VBS WK 4 E-7	07.256.4727.		,	VB 1 WK 44	07.255.4427.	
			8pole VBS WK 4 E-8	07.256.4827.			VB 1 WK 45	07.255.4527.	
			9pole VBS WK 4 E-9	07.256.4927.			VB 1 WK 46	07.255.4627.	
			10pole VBS WK 4 E-10 11pole VBS WK 4 E-11	07.256.5027. 07.256.5127.			VB 1 WK 47 VB 1 WK 48	07.255.4727. 07.255.4827.	
			12pole VBS WK 4 E-11	07.256.5127.		,	VB 1 WK 48 VB 1 WK 49	07.255.4827.	
			12pule VD3 VVK 4 E-12	07.230.3227.	0 10		VB 1 WK 49	07.255.4927.	
							VB 1 WK 410	07.255.5027.	
							VB 1 WK 412	07.255.5227.	
							VB 1 WK 4 M-70		
						7 upule	VD 1 VVK 4 IVI-70	0 07.233.4027.	0 10







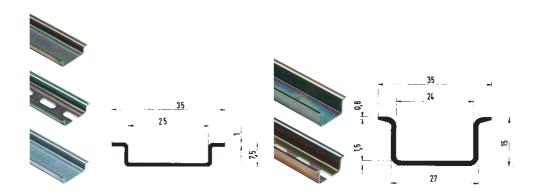


Angled support bracket

Туре	Part no. Std. pack	Type	Part no. Std. pack	Туре	Part no. Std. pack
9018 D	Z5.516.2511.0 50	9018 H	Z5.516.2711.0 50	9018 N	Z5.516.2811.0 50
Included with	these angled support brackets are				
oval head scre	ews for panel mounting				
	85, nuts BM 5 DIN 439 and				
screws 5.3 DI	N 433 for DIN rail mounting.				
Material:					
	steel, galvanically zinc-plated				
Screws, nuts a	and washers				
Steel, galvanio	cally zinc-plated and dichromated				

Accessories for DIN rail terminal blocks

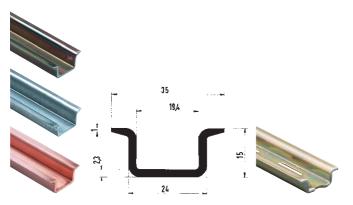


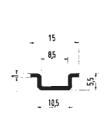


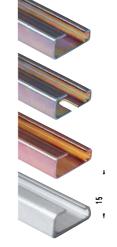
Mounting rail 35 x 7.5 accord. to DIN EN 60715

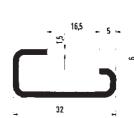
Mounting rail 35 x 15 accord. to DIN EN 60715

		Type P	art no. Std. pack		Туре	Part no. Std	. pack
Mounting rail							
1. Steel, galv. zinc-plated and dichro	omated,unslottedL = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 15 EN 60715	98.370.0000.0	1
Steel, galv. zinc-plated and dichro	omated,slotted L = 2 m	35 x 27 x 7,5 EN 60715 slotte	d 98.300.1000.0	1	35 x 27 x 15 EN 60715	98.370.1000.0	1
Steel,galv. zinc-plated and dichror	mated, slotted L = 1 m	35 x 27 x 7.5 EN 60715 slotte	d 98.300.1000.0M		35 x 27 x 15 EN 60715	98.375.1000.0	1
Steel,galv. zinc-plated and dichror	mated, slotted L = 2 m	35 x 27 x 7.5 EN 60715 slotte	d 98.300.1000.0L				
2. Steel, unplated	unslotted L = 2 m	35 x 27 x 7,5 EN 60715 unpla	ted 98.300.0010.0				
Steel, unplated	slotted L = 2 m						
3. Steel, hot-galvanized	unslotted L = 2 m						
Steel, hot-galvanized	slotted L = 2 m						
4. E copper	unslotted L = 2 m						
E copper	slotted L = 2 m						
5. Aluminum	unslotted L = 2 m	35 x 27 x 7.5 EN 60715	98.750.0000.0				
Aluminum	slottted L = 1 m	35 x 27 x 7.5 EN 60715	98.800.1000.0				
6. Stainless Steel	unslotted L = 2 m	35 x 27 x 7.5 EN 60715	98.330.0000.0		35 x 27 x 15 EN 60715	98.370.1001.0	1









Mounting rail 35 x 15 accord. to DIN EN 60715

Mounting rail 15 x 5.5 accord. to DIN EN 60715

Mounting rail TS 32 accord. to DIN EN 60715

Type	Part no.	Std. pack	Type	Part no. Std. pack	Туре	Part no. Std. pack
35 x 27 x 15 EN 60715	98.360.000	00.0 1			9006 EN 60715 G-32	98.190.0000.0 1
					9006 EN 60715 G-32	98.190.1000.0 1
35 x 24 x 15 EN 60715 ZN	98.360.000	04.0 1				
35 x 24 x 15 EN 60715 CL	J 98.380.000	00.0 10			9006 E-CU	98.220.0000.0 10
			9021/15 x 5,5 EN 60715	98.090.0000.0 1		
			9021/15 x 5,5 EN 60715	98.090.0015.0 10		
					9006 AL	98.210.0000.0 1





End clamp for TS 35 fixation with screws

End clamp for TS 35 fixation without screws

		Туре	Part no.	Std. pack	Type	Part no.	Std. pack
End clamp							
1. End clamp TS 35, with screw	8 mm wide	9708/2 S 35	Z5.522.855	3.0 100			
2. End clamp TS 35, with screw	8/17.5 mm wide	9708/2 BS/35	69.920.055	3.0 100			
with marking facilities							
for block assemblies							
3. End clamp for TS 35, screwless	8 mm wide				WEF 1/35	Z5.523.935	3.0 100
4. End clamp for TS 35, screwless	8/17.5 mm wide				WEF 1 BS/35	69.920.105	3.0 100
with marking facilities for terminal	l block assemblies						
5. End clamp TS 35	7.5 mm wide						
6. End clamp with U-foot	10 mm wide						







Polyamide 66/6 Clamping spring zinc-plated steel

End clamp for TS 35

End clamp with U-foot

End clamp for TS 15

Туре	Part no.	Std. pack	Type	Part no. Std. pack	Туре	Part no. Std. pack
9708/3 S 35	Z5.523.51	53.0 100				
					9208/S15	Z5.522.7553.0 100
			WE 2/U	Z5.523.5653.0 100		
			WE 1/U	Z5.523.5753.0 100		







Cover over 10 blocks

Cover over 10 blocks

Hole for test pin

Cover strip with warning symbol

over 4 blocks

			Туре	Part no. St	d. pack	Туре	Part no. Sto	l. pack
WK 2,5/U			WK 2,5/U			WK 2,5/U	04.343.4756.8	10
WK 2,5-4 KOI/U			WK 2,5-4 KO I/4			-		
AD VB 5/10 E GELB	04.342.0556.8	10	AD VB 5/10 P GELB	04.342.3556.8	10			
						WK 4/U	04.343.4856.8	10
WK 4/U			WK 4					
AD VB 6/10	04.342.0656.8	10	AD VB 6/10 P GELB	04.342.3656.8	10	WK 6/U	04.343.4956.8	10
WK 10/U			WK 4 E/U			WKN 10/U	04.343.5056.8	10
AD VB 10/10 GELB	04.342.1056.8	10	AD VB 6/10 EP GELB	04.342.5656.8	10			
						WKN 16/U	04.343.5156.8	10
WK 4 E/U			WK 6/U					
AD VB 6/10 E GELB	04.342.2656.8	10	AD VB 8/10 P GELB	04.342.3856.8	10			
						WKN 35/U	04.343.5256.8	10
			WK 10/U					
			AD VB 10/10 P GELB	04.342.4056.8	10	WKN 70/U	04.343.5356.8	10
			WK 5 S/U			WKN 150/U	04.343.5456.8	10
			WK/3 S/					
			WK/4 S/					
			WK 4 3					
			AD VB 6/10 P GELB	04.342.3656.8	10			







Cover

for terminals from 95 - 240 mm²

Rapid mounting tool

for terminals up to 6 mm²

Insulating housing for push-on connector $6.3 \times 0.8 \text{ mm}$

Туре	Part no. Std. pack	Туре	Part no. Std. pack	Туре	Part no. Std. pack
for terminal block typ	pe	for terminal block to	уре		g for push-on connectors, color: yellov
				with marking fiel	d
RFK 1/185	Z7.409.5853.0 10	WK 2,5	05.594.5853.0 10		
RFK 1/240	Z7.409.5853.0 10			for 1.5 mm ²	05.592.7553.0 2000
				for 2.5 mm ²	05.592.7653.0 2000
		WK 4	05.594.5953.0 10		
		WK 6	05.594.6053.0 10		
				Insulating housin	g for push-on connectors, color: yello
		WK 4 E/U	05.582.8153.0 10	for 2.5 mm² (can	be inserted on the plug side)
		Tool picks up ar	d mounts 10 terminals at a time.	unmarked	05.582.8653.0 1
		Mount 100 term	ninals in 90 seconds.	marked	05.582.8753.0
				(please indicate t	the marking)

Accessories for DIN rail terminal blocks SEIOS







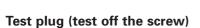
Test plug stud bolt

Shorting plug

Test plug (tests off the current bar)

			Туре	Part no.	Std. pack	Type	Part no. Std. pack		
Test socket			Shorting plug			snap-on with			
WK 2,5			WK 4 TKG-TRS	T P3/U		locking lever			
WKN 2,5 E/U			WK 4/TKM/U	U		for terminal bloc	for terminal block type		
WK 2,5-3 D/U			WK 4 TKS D/U	J					
WK 4 TKMP 3/U		WK 4/U F1			WK 4	Z1.299.6153.0 10			
WK 4 TKG-TRST	P3/U		WK 4/U F2						
WK 4 TKS D/U			9290	Z5.553.940	0.0 100	WK 4 E/U	Z1.299.9053.0 10		
WK 2,5 U/8113 S	5/H					Test plug withou	ut locking lever		
WK 4/U F1						snap-on			
WK 4/U F2							Z1.299.8153.0 10		
WK 4									
WK 4/D1/2 U									
WK 4/D2/2 U									
WK 4/DEU									
WK 4 E/U									
9290 ST 2/2,	,3 Z5.553.2921.0	10							
WK6 ST 2/4	Z5.553.3021.0	10							
Test socket									
WK 2,5									
WKN 2,5 E/U									
WK 2,5-3 D/U									
WK 2,5-3 D SL									
WK 2,5 U/8113 S	5/H 05.509.6021.0	10							
WK 4									
WK 4 TKS D/U									
WK 4/U F1									
WK 4/U F2	05.508.8921.0	10							
WK 4/D1/2 U									
WK 4/D2/2 U									
WK 4/DEU									
WK 4 E/U	05.508.8821.0	10							
						For marking eye	tems see pages 178-179 and 200-2		





for WK 4 terminal blocks

with locking device and strain relief I

 $I_{min} = 10 \text{ mA}$

 $I_{\text{\tiny max}} = 3,5 \text{ A}$

U_{min} = 10 V

 $U_{max} = 250 \text{ V} \sim 300 \text{ V} \frac{1}{100}$



Test plug with spring clamp connection

for WKF/WKC terminal blocks

PSWKC/F

ହୁଣାରା - 1,5 mm² ସମାନ୍ତି stila Adedn² 400 V 2,5

Туре	Part no. Sto	I. pack	Туре	Part no.	Std. pack		
1pole			1pole				
without contact pin	Z1.299.9253.0	10	5mm pitch				
			PSWKC/F	Z1.299.97	753.0		
1pole			Blank for staggering terminals				
without contact pin			blocks	01.299.97	753.0		
snap-on	Z1.299.9453.0	10					
			End plate and				
			partition for 6 mm	n pitch			
10pole without conta	act pins		ZP/AP PS	07.312.60	053.0 10		
with locking device a	and strain relief						
marked 1 - 10			One end plate pe	r module is req	uired for 6 mm pitch		
PST 10 WK 4	Z1.299.9553.0	10					
Contact pin	05.549.1200.0	1					
			jumpered with				
			at RM5	Z7.280.62	227.0		
				to			
				Z7.280.70	27.0		
			at RM6	Z7.261.12	227.0		
				to			
				Z7.261.20	27.0		
			Screwdriver,				
			uninsulated	06.502.40	0.00		
For marking systems	s see pages 178-	179 and 200-202					

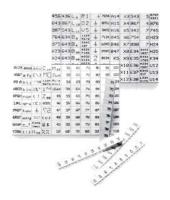
Marking accessories for DIN rail terminal blocks SEIOS





wiemarc wieplot M∪T

Type	Part no.	Std. pack			Туре	Part no.	Std. pack
wiemarc CD	95.502.0	501.0	Description		wieplot MUT	95.502.06	01.0
			wieplot MUT is a	plotter system that uses wiemarc			
Discription			to interface with a PC, allowing custom printing on				
wiemarc is a Windows® based plotter software			standard Wieland marking tags. These standard		Standard template	95.502.06	21.0
(Windows 95/98/ME/NT/XP) that is able to drive the			marking tags provide circuit identification for Wieland		for all Wieland tags		
following plotter systems:			DIN rail mount terminal blocks, rectangular multipole				
			connectors and WEB/WEG electronic housings.				
- wieplot MUT	(Mutoh system))					
- Roland system	ı						
for custom printing on standard Wieland marking tags.		Resolution:	0.025 mm				
			Accuracy:	+/- 0.1 mm			
			Power supply:	50/60 Hz, 180 – 264 V,			
wiemarc makes preparing data for custom printing				90 – 132 V			
easier and faster than ever.			Automatic switch over from				
Intuitive handling	ntuitive handling allows printing of marking tag cards in			110 V to 230 V			
single, multipole	ingle, multipole and series marking jobs.		Power rating:	About 0.3 A for 220 V			
mport of marking data from Excel files, text files and		Approvals:	UL-UL478 (REV .4)				
CAD/CAE programs is possible.			CSA-22.2 No. 220 and				
wiemarc data file management is user-friendly as			VDE EN 60 950				
printing data can be stored and found very easily in the		Interference:	FCC Class B				
file library.			FCC Part 15 and VDE Class B				
wiemarc knows several special characters for		Dimensions:	620 mm x 425 mm x 106.5 mm				
electrical markin	g.		Weight:	6.4 kg			
wiemarc is able	wiemarc is able to mark tags with upward or		Interfaces:	RS-232 C and parallel			
downward series, series steps can be chosen as well			(Centronics)				
as leading or foll	owing characte	rs. Multipole line					
printing is possib	ole depending o	n tag size, number of					
digits and type s	ize. Automatic	adaptation of type size					
according to tag	size and numbe	er of digits.					
Requirements:							
Pentium II PC or	Pentium II PC or compatible, min. 200 MHz or higher,						
64 MByte RAM,	64 MByte RAM, CD-ROM Drive, VGA Grafic Adaptor						
and Monitor	and Monitor						
wiemarc sunno	orts Windows 9	95 [®] , Windows 98 [®] ,					
		, Windows ME [®] and					
Windows XP® Pr							



Accessories

	Туре	Part no.	Std. pack	Туре			Part no		Std. pa	ck	
Accessory kit consists of plotter pen 0.25 mm,				Marker	Cards:						
Ink-cartridge, permanent plotter pen 0.3 mm and				110 tags	per ca	rd					
cleaning set.				9075 A/5/	10/11		Z4.24	2.505	3.0		
Accessory kit (pen basic equipment)		95.502.060	12.0	60 tags p	er car	d					
				9705 AL/5		-	7/1 2/1	2.515	3 U		
Plotter pens for ROLAND and wieplot MUT				110 tags	-	rd	27.27	2.010	5.0		
systems:				9705 A/6/		iiu	74 24	2.605	2 0		
•		95.502.011	0.0			al	24.24	2.005	3.0		
Plotter pen 0.18 mm				60 tags p		J	7.0				
Plotter pen 0.25 mm		95.502.012		9705 AL/6,			Z4.24	2.615	3.0		
Plotter pen 0.35 mm		95.502.013		84 tags p		d					
Plotter pen 0.50 mm		95.502.015	50.0	9705 A/6.7	7/12/7		Z4.24	2.675	3.0*		
Plotter pen 0.70 mm		95.502.017	0.0	36 tags p	oer car	d					
Plotter pen 1.00 mm		95.502.010	0.0	9705 AL/6	.7/12/7		Z4.24	2.685	3.0*		
				*must us	se mul	ti-card	templa	ite			
Permanent Plotter pen				9705 A/8/	10/7		Z4.24	2.805	3.0*		
0.30 mm black		95.502.023	0.0								
0.70 mm black		95.502.027	0.0								
						9075AL/					
Permanent Plotter pen set					5/10/11	5/10/6	6/10/11	6/10/6	6.7/12/7	6.7/12/7	8/10/7
consisting of black, red, blue, green pen.				fasis WKF 2.5	Х	Х					
set 0.30 mm		95.502.023	24.0	WKF 4 WKF 6			Х	Х	х	X*	Х
				WKF 10	Х*	X*			^	Α.	^
set 0.70 mm		95.502.027	4.0	WKF 16 WKMF 2.5	Х	х	Х*	X*			
				taris	^	^					
Hand pens				WKC 1 WKC 2.5	Х	Х	Х	х			
Hand pen 0.25 mm		95.502.042	25.0	selos			X	X			
Hand pen 0.35 mm		95.502.043	5.0	WK 2.5	Х	Х					
Hand pen 0.50 mm		95.502.045	0.0	WK 4 WK 6			Х	Х	X ⁺	X ⁺	Х
Hand pen 0.70 mm		95.502.047	0.0	WKN 10	Х*	X*		V.*			
Ink cartridge P1.0 5 x 1 ml		95.502.019	9.0	WKN 16 WKN 35			X*	X*	X+	X+	X*
Cleaning set		95.502.019	0.8	WKN 70					X ⁺	X ⁺	
Pen cleaner		95.502.019	7.0	WKM 2.5 WKM 4	Х	Х	Х	Х			-
				9220 A/6			Х	х			
wiemarc-Templates for Wieland cards:				9700 A/5 9700 A/6	Х	Х	Х	Х			
for updating existing plotter systems to wiemarc				9700 A/8					X ⁺	X ⁺	Х
		95.502.062	11.0	9700 A/10 9700 A/12	X*	X*	X*	X*			-
for marcom 2000 and Phoenix CMS-System				9700 A/16					X+	X+	
for Weidmueller M-Print (Mutoh IP 220)		95.502.062		* 2 strips nee + markers mi							
for murrplastic ACS (Roland DXY1150A) set high		95.502.062		Note: the AL-		are 69%	longer th				
for Wago System and murrplastic ACS set low		95.502.062	.4.0	AL/6./	is twice i	as long to	allow M	ore built	ing area		









2.5 mm²/5 mm Width

4 mm²/6 mm Width

10 mm²/10 mm Width 16 mm²/12 mm Width 35 mm²/16 mm Width

							35 mm / 16 m	iiii vviatii	
Туре	Part no. Std.	pack	Type		Part no. S	td. pack	Туре	Part no. Std.	pack
Marking strips, unm	arked		Marking strip	s, unma	rked				
9705 A/5/10	04.242.5053.0	25	9705 A/6/10		04.242.6053.0	25	10 mm ² /10 n	nm Width	
Marking strips, mar	ked		Marking strip	s, mark	ed		marked for 5 bloc	ks (every 2nd tag)	*
9705 A/5/9 B 1 - 9	04.842.4953.0	25	9705 A/6/9 B 1 -		04.842.5953.0	25	9705 A/5/10/5 B	04.842.5553.0	25
9705 A/5/10 B*	04.842.5053.0	25	9705 A/6/10 B*		04.842.6053.0	25			
9705 A/5/10 B 1 - 10	04.845.0153.0	25	9705 A/6/10 B 1 -	· 10	04.846.0153.0	25			
11 - 20	04.845.0253.0	25	11 -	- 20	04.846.0253.0	25			
21 - 30	04.845.0353.0	25	21 -	30	04.846.0353.0	25			
31 - 40	04.845.0453.0	25	31 -	40	04.846.0453.0	25	16 mm ² /12 n	nm Width	
41 - 50	04.845.0553.0	25	41 -	- 50	04.846.0553.0	25	-		
51 - 60	04.845.0653.0	25	51 -	- 60	04.846.0653.0	25	marked for 5 block	ks (every 2nd tag)	*
61 - 70	04.845.0753.0	25	61 -	- 70	04.846.0753.0	25	9705 A/6/10/5 B	04.842.6553.0	25
71 - 80	04.845.0853.0	25	71 -	- 80	04.846.0853.0	25			
81 - 90	04.845.0953.0	25	81 -	90	04.846.0953.0	25			
91 - 100	04.845.1053.0	25	91 -	100	04.846.1053.0	25			
⊕ (10 x)	04.855.0053.0	25		(10 x)	04.856.0053.0	25	35 mm²/16 n	nm Width	
± (10 x)	04.855.0153.0	25	1	= (10 x)	04.856.0153.0	25			
+ (10 x)	04.855.0253.0	25	+	- (10 x)	04.856.0253.0	25	marked for 5 block	ks (every 2nd tag)	*
- (10 x)	04.855.0353.0	25	-	- (10 x)	04.856.0353.0	25	9705 A/8/10/5 B	04.842.8553.0	25
L1 (10 x)	04.855.0453.0	25	L1	(10 x)	04.856.0453.0	25			
L2 (10 x)	04.855.0553.0	25	L2	2 (10 x)	04.856.0553.0	25			
L3 (10 x)	04.855.0653.0	25	L3	3 (10 x)	04.856.0653.0	25			
PE (10 x)	04.855.0753.0	25	PE	(10 x)	04.856.0753.0	25			
SL (10 x)	04.855.3153.0	25	SL	(10 x)	04.856.3153.0	25			
N (10 x)	04.855.3253.0	25	N	I (10 x)	04.856.3253.0	25			
F1 (10 x)	04.855.0953.0	25	F1	(10 x)	04.856.0953.0	25			
F2 (10 x)	04.855.1053.0	25	F2	2 (10 x)	04.856.1053.0	25			
L1, L2, L3, N, PE (2 x)	04.855.0853.0	25	L1, L2, L3, N, Pl	(2 x)	04.856.0853.0	25			
with enlarged marking	a area		with enlarged	marking	area				
9705 AL/5/10	04.242.5153.0	25	9705 AL/6/10		04.242.6353.0	25			
*Custom marking upo		-	*Custom marl			-	* indicate required	marking with part n	0

Marking accessories for DIN rail terminal blocks

selos

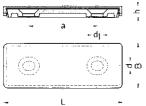
Tear-off marking strip with 10 marking tags

Material: Polyamide 66/6 white, marking in black Marking per strip											Туре	Part no. Stand.	pack
unmarked											9704 A	04.241.1150.0	25
marked with the same number	1	1	1	1	1	1	1	1	1	1	9704 A/1 B	04.841.1150.0	25
- 12	2	2	2	2	2	2	2	2	2	2	9704 A/2 B	04.841.1250.0	25
7 A 4 A 41 41	3	3	3	3	3	3	3	3	3	3	9704 A/3 B	04.841.1350.0	25
VIII WATTOR	4	4	4	4	4	4	4	4	4	4	9704 A/4 B	04.841.1450.0	25
	5	5	5	5	5	5	5	5	5	5	9704 A/5 B	04.841.1550.0	25
	6	6	6	6	6	6	6	6	6	6	9704 A/6 B	04.841.1650.0	25
	7	7	7	7	7	7	7	7	7	7	9704 A/7 B	04.841.1750.0	25
	8	8	8	8	8	8	8	8	8	8	9704 A/8 B	04.841.1850.0	25
	9	9	9	9	9	9	9	9	9	9	9704 A/9 B	04.841.1950.0	25
	0	0	0	0	0	0	0	0	0	0	9704 A/0 B	04.841.2050.0	25
marked with consecutive numbers	1	2	3	4	5	6	7	8	9	0	9704 A/1-0 B	04.841.2150.0	25
marked with the same symbols	+	+	+	+	+	+	+	+	+	+	9704 A/+ B	04.841.7450.0	25
	_	_	_	_	-	-	_	-	_	_	9704 A/- B	04.841.7550.0	25
	/	/	/	/	/	/	/	/	/	/	9704 A// B	04.841.7650.0	25
											9704 A/. B	04.841.7750.0	25
1 set of the same numbers													
= 10 x 25 strips = 2500 numbers 1 set of capital letters	1	1	1		0	0	0				A to Z (capital letters)	04.841.9050.0	1
= 26 x 25 strips = 6500 letters	А	Α	Α		Z	Z	Z				a to z (small letters)	04.841.9150.0	1
1 set of small letters											,		
= 26 x 25 strips = 6500 letters	а	а	а		Z	Z	Z					04.841.9250.0	1

Marking Accessories for DIN rail terminal blocks

selos







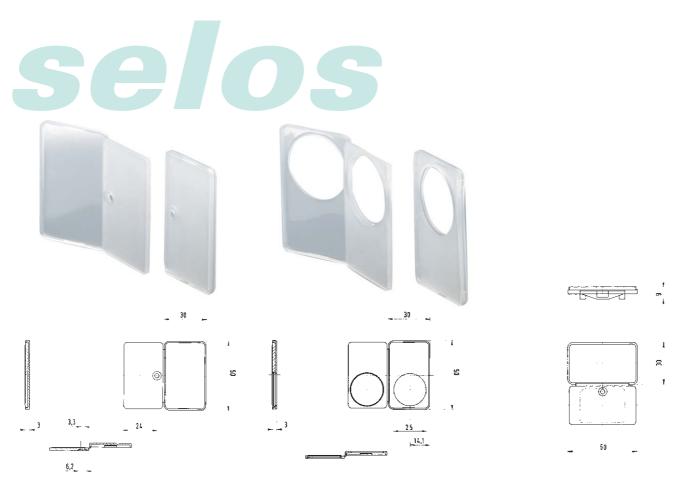
Marking tags

The marking tags are delivered unassembled!

Marking strip

Marking strip

Type			Р	art no.	Std	. pack			Type			P	art no.	Std	. pack			Type			F	Part no.	Sto	l. pack		
Vers	ion N:								Availa	able in I	Polyvi	nylchlor	id (PVC) black	and ivo	ry,		Availa	ble in	Polyvi	nylchlo	ride,				
Mate	erial:								1 m l	ong								1 m l	ong							
spec	ial phot	ostab	le plasti	C,					with	markin	g card	d (white) and p	lastic fo	il cove	r		with marking card and plastic foil cover								
trans	sparent,	mark	ing card	l in whi	te				or wit	th plast	ic foil	, one si	de roug	hened,	white	opaque	9									
300 E	}		9	0.100.	1154.0	100			319/13	3,5 K elf		9	0.800.	1055.8	10			315 GI	(Ç	90.810.	3055.0	10		
300			9	0.100.0	0554.0	100			319/17	7,5 K elf		9	0.800.2	2055.8	10			315 G	5		(90.811.	3055.0	10		
301			9	0.100.0	0754.0	100																				
303			9	0.100.0	0854.0	100																				
305			9	0.100.	1054.0	100			319/13	3,5 K sch	nwarz	9	0.800.	1055.1	10											
									319/17	7,5 K sch	nwarz	9	0.800.2	2055.1	10											
																		End p	iece							
																		315 E			(05.590.	0052.0	100		
Vers	ion K:																									
Mark	king card	ds in	perforat	ed																						
shee	ts for m	narkin	g on the	9																						
type	writer																									
300 E	3K		9	0.100.	1354.0	100																				
300 K			9	0.100.	1254.0	100																				
301 K			9	0.100.	1454.0	100																				
303 K			9	0.100.	1554.0	100																				
305 K			9	0.100.	1654.0	100																				
L	В	h	а	е	d	d,	I,	b	L	В	h	а	е	d	d,	I,	b	L	В	h	а	е	d	d,	I,	
30	17,5	4	11	3,6	4,6	27	14,5		1000	20	4	13,5						1000	16	4	9					
45	17,5	4	26	3,6	4,6	42	14,5		1000	24	4	17,5						1000	16	4	9					
60	30	7	36,5	3,6	4,6	54,5	24,5		1000	30,5	4	23,5														
90	40	8	55	3,6	4,6	84	34		1000	20	4	13,5														
140	55	8	100	3,6	4,6	134	49		1000	24	4	17,5														
									1000	30,5	4	23,5														
																										_



Marking tag

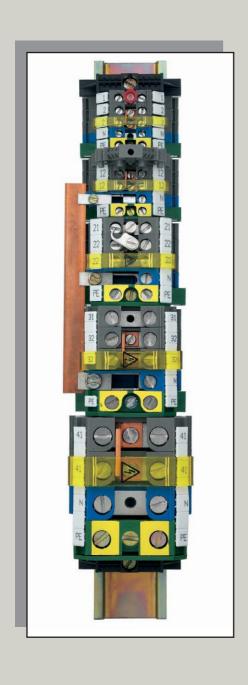
Marking tag

Marking tag

Design	Part no. Std. pack	Туре	Part no. Std. pack	Туре	Part no. Std. pack
Marking tag	Z4.210.0652.0 100	Push button tag	04.210.0752.0 100	Marking tag	Z4.210.1652.0 100
with adhesive tap	oe			with carrier	
Marking tag	04.210.0652.0 100				
without adhesive	tape				
Marking card		Marking card		Marking card	
white for marking		white for marking t		white for marking t	
(1 sheet = 30 sin	gle tags)	(1 sheet = 30 singl	e tags)	(1 sheet = 30 singl	e tags)
	04.019.0889.0 1		04.019.0889.0 1		04.019.0889.0 1
Aluminum		Aluminum		Aluminum	
tag, self-adhesive	e 05.584.9489.0 1	tag, self-adhesive	05.584.9489.0 1	tag, self-adhesive	05.584.9489.0 1

DIN rail terminal blocks with screw clamp technology, type *9700 A.. S35*

selos CLASSIC LINE



Standard terminal blocks

2.5 mm² (12 AWG)



4 mm² (10 AWG)



Feed-through blocks





Neutral disconnect blocks



Ground blocks



10 mm² (8 AWG)



16 mm² (6 AWG)



25 mm² (4 AWG)



35 mm² (2 AWG)















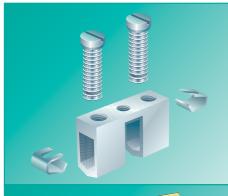






DIN rail terminal blocks with screw clamp connection, type 9700 A.. S35

selos CLASSIC LINE



9700 A S35 offers...

☐ Screw clamp technology made from nickel-plated copper alloy

Application advantages

- → Low contact resistance
 - Clamping body has similar physical and chemical characteristics as the conductor
 - One piece clamping body/current bar

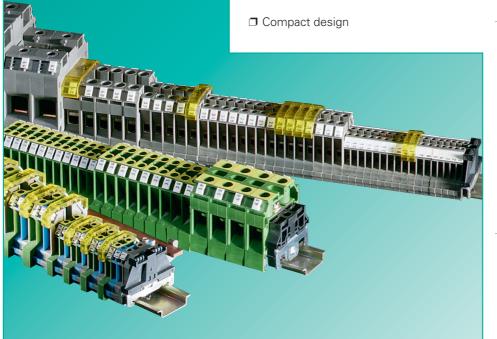
→ Connection of Aluminum Conductors

- Clamping body is able to penetrate aluminium oxide
- → Steel free Clamping Body
 - High corrosion resistance



☐ Connection range

→ Wire gauge from 18-2 AWG solid, stranded and fine stranded conductors can be terminated without ferrules.

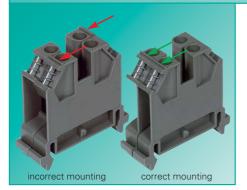


→ Save space on the rail

 selos Classic Line offers higher density due to the wire size and terminal block pitch.

onnection range	<u>Pitch</u>
12 AWG	5 mm
10 AWG	6 mm
8 AWG	8 mm
6 AWG	10 mm
4 AWG	12 mm
2 AWG	16 mm

- → **selos** CLASSIC LINE
 - Mounting on TS 35 DIN Rail (DIN 60 715)
 - Product range:
 Feed-through terminals
 Ground terminals
 Neutral Bus terminals
 PEN terminals



 $\hfill \square$ Function and Installation safety

- → Incorrect mounting indicator on the top of terminal
 - terminals mounted incorrectly are easily identified and fixed.



Test plugs and shorting plugs

- ☐ Test sockets which accept the test plugs and the shorting plugs are installed in the threaded slot on the carrying bar.
- ☐ Modular test plugs are available to create test plug modules greater than two poles.

Switchable connecting links (SCL)

☐ For easy commoning and disconnecting two terminals

Jumper bar

- ☐ Allow easy commoning of potential
- ☐ Available in pre-cut 2-6 pole versions
- ☐ Available in cut to length version in 50, 70. or 90 pole versions depending on the terminal block
- End plates and partitions are required to mantain creepage distances.

Material

□ Metal components

Special alloys and surface treatments offer low contact resistance and a gas tight connection

Clamping body: nickel plated copper alloy Screws: nickel plated copper alloy

Jumper bar: copper

Test socket: copper alloy, plated SCL: copper alloy

□ Insulation housing

Polyamide has excellent electrical, chemical and mechanical characteristics

Insulating housing: Tracking current

Polyamide 66/6

resistance: Flammability class::

CTI 600 UL 94 V-2

(also see section **facts** & DATA)



Marking systems

- ☐ Single marking tags in 5, 6, or 8mm pitch
- Marking strips (10 tags) to sanp on 10 terminals at the same time
- ☐ Tear-off marking strips for marking up to 3 digits per terminal block
- Custom marking available upon request

You can use our wieplan software to configure your own terminal block assemblies (see page 10/11).



- ☐ For terminals that remain live after the mains have been switched off (VDE 0113)
- Can be removed with a screwdriver

Note: The information regarding cross sectional area and connection types



- Quality standard as per DIN ISO 9001 in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- countries:
- BSI Certificate, Great Britain
- SQS Certificate, Switzerland
- Aib-Vincotte Certificate, Belgium - ÖQS Certificate, Austria

Compatible with certificates of other

isolation distances must be adhered to. For this purpose, Wieland offers a large selection of appropriate accessories. A detailed description of technical data,

pertains to unprepared wires without

terminals in their intended application.

When different products are mounted adjacent to each other, the proper

The voltage ratings apply to the

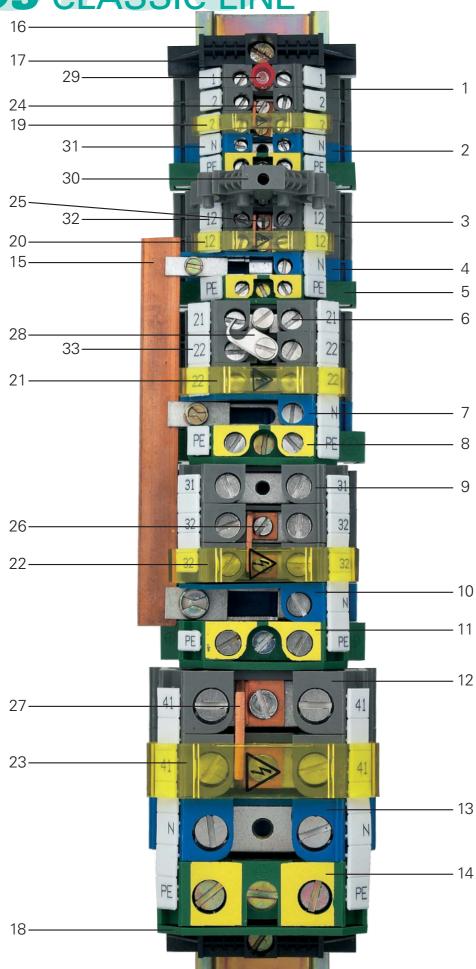
ferrules.

the standards' requirements, and the application conditions can be found in part **facts** & DATA.

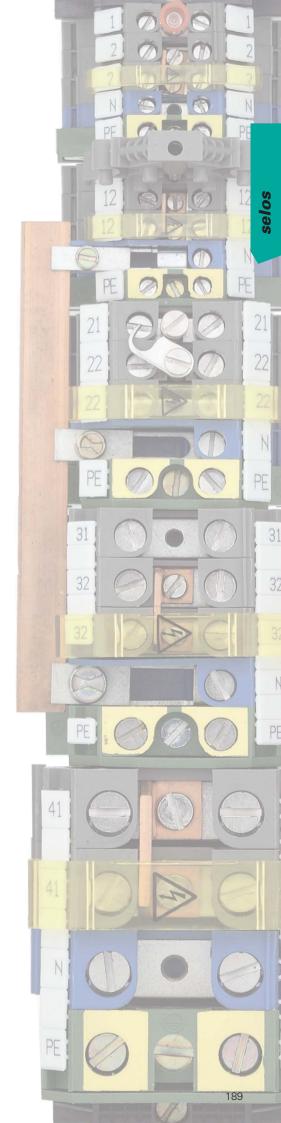


DIN rail terminal blocks with screw technology, type 9700 A.. S35

SE OS CLASSIC LINE



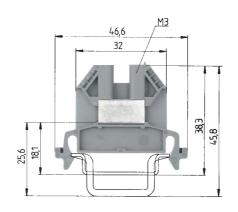
Item	Description	Туре	Part number
1	Feed through block	9700 A/5 S35	54.003.7553.0
2	Feed-through block, BLUE	9700 A/5 S35 BLAU	54.003.7553.6
3	Feed through block	9700 A/6 S35	54.004.7553.0
4	Neutral disconnect block	9700 A/6 ETK S35	54.004.7753.0
5	Ground block	9700 A/6 SL2 S35	56.004.9053.0
6	Feed through block	9700 A/8 S35	54.010.7553.0
7	Neutral disconnect block	9700 A/8 ETK S35	54.010.7753.0
8	Ground block	9700 A/8 SL2 S35	56.010.9053.0
9	Feed through block	9700 A/10 S35	54.016.7553.0
10	Neutral disconnect block	9700 A/10 ETK S35	54.016.7753.0
11	Ground block	9700 A/10 SL2 S35	56.016.9053.0
12	Feed through block	9700 A/16 S35	54.035.7553.0
13	Feed-through block, BLUE	9700 A/16 S35 BLAU	54.035.7553.6
14	Ground block	9700 A/16 SL2 S35	56.035.9053.0
	5.5a.i.a 2.56.k	0,00,,000	55.555.5555.5
15	Busbar 10 x 3	9813 M Sn	98.290.1000.0
16	Mounting rail	35×27×7,5	98.300.0000.0
17	End clamp for TS 35 with screw	9 708/2 S35	Z5.522.8553.0
	·	·	
18	End plate, GREEN	9701/16 SL	07.312.0353.0
19	Warning cover	2,5 mm ²	04.325.1656.0
20	Warning cover	4 mm ²	04.325.1056.0
21	Warning cover	10 mm ²	04.325.1156.0
22	Warning cover	16 mm ²	04.325.1256.0
23	Warning cover	35 mm ²	04.325.1456.0
24	Cross connector with screws, uninsulated	9703/5-2	Z7.215.0227.0
25	Cross connector with screws, uninsulated	9703/6-2	Z7.211.0227.0
26	Cross connector with screws, uninsulated	9703/10-2	Z7.214.0227.0
27	Cross connector with screws, uninsulated	9703/16-2	Z7.216.0227.0
28	Switchable connecting link, complete	10 mm ²	Z7.269.3023.0
29	Test plug with insulated handle, Ø 2.3 mm	ST 2/2,3	Z5.553.2921.0
	Stud bolt	2,5 mm ²	05.508.8921.0
30	Test plug with locking lever		Z1.299.7153.0
31	Marking tag	9705 A	04.842.0850.0
32	Marking strip	9705 A/6/10 B	04.842.6053.0
33	Marking strip	9705 A/8/10 B	04.842.8053.0

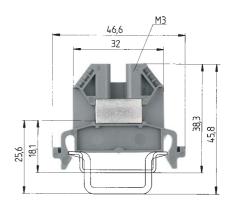


Feed-through blocks with screw connection, type 9700 A.. S35

selos CLASSIC LINE

field/factory wiring





9700 A/5 S35

fine stranded solid $0.5-2.5 \text{ mm}^2 \quad 0.5-4 \text{ mm}^2$ 800 V/8 kV/3 24 No. 18-12 AWG 600 V 20/30 No. 22-12 AWG 600 V 25 9 mm 5 mm

9700 A/6 S35

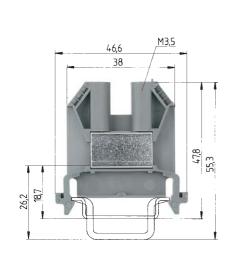
fine stranded solid $0.5-4 \text{ mm}^2$ $0.5-6 \text{ mm}^2$ 800 V/8 kV/3 32 No. 18-10 AWG 600 V 30/30 No. 22-10 AWG 600 V 35 9 mm 6 mm

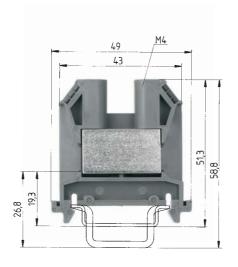
USA ratings		No. 22-12 AVVG	6	000 V	25	No. 22-10 AVVG	(000 V 35
Width	Wire strip length	5 mm			9 mm	6 mm		9 mm
Approvals		S SEV D N FI	S 18 711 * @ B) (%) (£)		(a) (5) <u>/(s)</u> (D) (N) (F)	KEMA (S) LR 911 * (A)	B 6
		Туре	Part no. Std.	pack		Туре	Part no. Std	. pack
Feed-through terminal	Color: gray	9700 A/5 S35	54.003.7553.0	100		9700 A/6 S35	54.004.7553.0	100
Feed-through terminal, (Ex)i	Color: blue	9700 A/5 S35 BLAU	54.003.7553.6	100		9700 A/6 S35 BLAU	54.004.7553.6	100
Neutral disconnect block	Color: blue							
Ground block	Color: green-yellow							
PEN terminal Cold	or: green/yellow - blue							
Accessories								
1. Mounting rail TS 35, DIN rail,	7.5 mm high $L = 2 \text{ m}$	35 x 27 x 7,5 EN 60715	98.300.0000.0	1		35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 1	15 mm high $L = 2 \text{ m}$	35 x 27 x 15 EN 60715	98.360.0000.0	1		35 x 27 x 15 EN 60715	98.360.0000.0	1
2. End clamp TS 35, with screw	8 mm wide	9708/2 S35	Z5.522.8553.0	100		9708/2 S35	Z5.522.8553.0	100
3. End plate	Color: gray	9701/6	07.310.3153.0	10		9701/6	07.310.3153.0	10
	Color: blue	9701/6 BLAU	07.310.3153.6	10		9701/6 BLAU	07.310.3153.6	10
	Color: green							
4. Partition plate	Color: gray	9702/6	07.310.3453.0	10		9702/6	07.310.3453.0	10
	Color: blue	9702/6 BLAU	07.310.3453.6	10		9702/6 BLAU	07.310.3453.6	10
5. Jumper bar with screws,	2pole	9703/5-2	Z7.215.0227.0	50		9703/6-2	Z7.211.0227.0	50
E-Cu, uninsulated	3pole	9703/5-3	Z7.215.0327.0	50		9703/6-3	Z7.211.0327.0	50
	4pole	9703/5-4	Z7.215.0427.0	50		9703/6-4	Z7.211.0427.0	50
	5pole	9703/5-5	Z7.215.0527.0	50		9703/6-5	Z7.211.0527.0	
	6pole	9703/5-6	Z7.215.0627.0	50		9703/6-6	Z7.211.0627.0	50
Cut-to-c	order strip 0.6 m long	9703/5-M	Z7.215.0027.0	10		9703/5-M	Z7.211.0027.0	10
6. Switchable connecting link			Z7.269.3523.0	50			Z7.269.2923.0	50
7. Stud bolt for test plug		9011 D	05.508.8921.0	10		9011 C	05.508.8821.0	10
8. Test plug		ST 2/2,3	Z5.553.2921.0	10		ST 2/2,3	Z5.553.2921.0	10
9. Cover with warn, symbol over	r 1 block Color: yellow		04.325.1656.0	10			04.325.1056.0	10
10. Busbar								
E-Cu, 10 x 3 mm, tin-plated,	, I _N = 140 A L = 1 m							
E-Cu, 10 x 3 mm, unplated,								
11. Connector clamps for busbar								
25 mm ²	11.1 mm wide							
35 mm² 14.3 mm wide								
12. Busbar support	6 mm wide							
13. Rapid mounting tool			05.593.5853.0	10			05.593.4153.0	

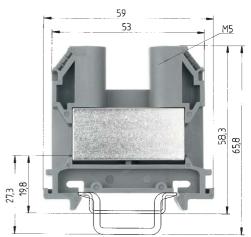
DIN VDE 0611 Teil 3/11.98

UL-ratings

CSA ratings







9700 A/8 S35

9700 A/10 S35

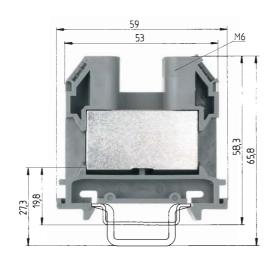
9700 A/12 S35

fine stranded solid/stranded 2.5 – 25 mm² 2.5 – 35 mm² 800 V/8 kV/3 101 No. 14-4 AWG 600 V 85/100 No. 14-4 AWG 600 V 100 12 mm 20 mm

8 111111	12 111111	10 111111		15 111111	12 [[][[]		20 11111
(a) (5) <u>/</u> SEV (D) (N) (F)	KEMA (S) LR 711 * (D (B) (B) (G)	(a) (5) <u>/(s)</u> (D) (N) (F)	KEMA (S) LR 911 * (9) (B 🚳 🤢	(a) (5) <u>/sev</u> (D) (N) (F)	(E003 (S) LR 911 * (9 1	B & 6
Туре	Part no. Std. pack	Туре	Part no. Std. _I	pack	Туре	Part no. Std	. pack
9700 A/8 S 35	54.010.7553.0 100	9700 A/10 S 35	54.016.7553.0	100	9700 A/12 S 35	54.025.7553.0	50
9700 A/8 S 35 BLAU	54.010.7553.6 100	9700 A/10 S 35 BLAU	54.016.7553.6	100	9700 A/12 S 35 BLAU	54.025.7553.6	50
35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
35 x 27 x 15 EN 60715	98.360.0000.0 1	35 x 27 x 15 EN 60715	98.360.0000.0	1	35 x 27 x 15 EN 60715	98.360.0000.0	1
9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0		9708/2 S 35	Z5.522.8553.0	
9701/8	07.310.3253.0 10	9701/10	07.310.3953.0	10	9701/12	07.310.3353.0	10
9701/8 BLAU	07.310.3253.6 10	9701/10 BLAU	07.310.3953.6	10	9701/12 BLAU	07.310.3353.6	10
9702/8	07.310.3553.0 10	9702/10	07.310.4053.0	10	9702/12	07.310.3653.0	10
9702/8 BLAU	07.310.3553.6 10	9702/10 BLAU	07.310.4053.6	10	9702/12 BLAU	07.310.3653.6	10
9703/8-2	Z7.212.0227.0 50	9703/10-2	Z7.214.0227.0	50	9703/12-2	Z7.213.0227.0	50
9703/8-3	Z7.212.0327.0 50	9703/10-3	Z7.214.0327.0	50	9703/12-3	Z7.213.0327.0	50
9703/8-4	Z7.212.0427.0 50	9703/10-4	Z7.214.0427.0	50	9703/12-4	Z7.213.0427.0	50
9703/8-5	Z7.212.0527.0 50	9703/10-5	Z7.214.0527.0	50	9703/12-5	Z7.213.0527.0	50
9703/8-6	Z7.212.0627.0 50	9703/10-6	Z7.214.0627.0	50	9703/12-6	Z7.213.0627.0	50
	Z7.269.3023.0 50		Z7.269.3123.0	50		Z7.269.3223.0	50
9011 B	05.508.3221.0 10	9011 A	05.508.3121.0	10		05.508.6521.0	10
ST 2/4	Z5.553.3021.0 10	ST 2/4	Z5.553.3021.0	10	ST 2/4	Z5.553.3021.0	10
	04.325.1156.0 10		04.325.1256.0	10		04.325.1356.0	10
	05.593.5953.0 10						
*CL I, ZN1, AExe II		*CL I, ZN1, AExe II			*CL I, ZN1, AExe II		

Feed-through blocks with screw connection, type *9700 A.. S35*

selos CLASSIC LINE



9700 A/16 S35

DIN VDE 0611 Teil 3/11.98

UL-ratings field/factory wiring CSA ratings

Width Approvals

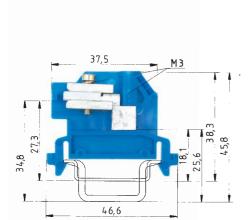
Wire strip length

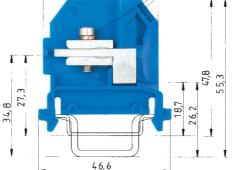
fine stranded	solid/stranded	V	Α
2.5-35 mm ²	2.5-50 mm ²	800 V/8 kV/	3 125
No. 12-2 AW0	3	600 V	115/130
No. 12-2 AW0	3	600 V	125
16 mm			20 mm
	J FD VEMA (S) IR 🗖	(A) (A) (B) (A)	લ

provais			613 (2) FR 2/17 (6)	A B B
		Туре	Part no. Std	. pack
Feed-through block	Color: gray	9700 A/16 S 35	54.035.7553.0	50
Feed-through block, (Ex)i	Color: blue	9700 A/16 S 35 BLAU	54.035.7553.6	50
Neutral disconnect block	Color: blue			
Ground block	Color: green-yellow			
PEN terminal	color: green/yellow - blue			
Accessories				
1. Mounting rail TS 35, DIN ra	il, 7.5 mm high $L = 2 \text{ m}$	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN ra	il 15mm high $L = 2 \text{ m}$	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35, with s	screw 8 mm wide	9708/2 S35	Z5.522.8553.0	100
3. End plate	Color: gray	9701/12	07.310.3353.0	10
	Color: blue	9701/12 BLAU	07.310.3353.6	10
	Color: green			
4. Partition plate	Color: gray	9702/12	07.310.3653.0	10
	Color: blue	9702/12 BLAU	07.310.3653.6	10
5. Jumper bar with screws,	2pole	9703/16-2	Z7.216.0227.0	50
E-Cu, uninsulated	3pole	9703/16-3	Z7.216.0327.0	50
	4pole	9703/16-4	Z7.216.0427.0	50
	5pole	9703/16-5	Z7.216.0527.0	50
	6pole	9703/16-6	Z7.216.0627.0	50
Cut-t	o-order strip 0.6 m long			
6. Switchable connecting link			Z7.269.3423.0	50
7. Stud bolt for test plug			05.508.6521.0	10
8. Test plug		ST 2/4	Z5.553.3021.0	10
9. Cover with warn, symbol of	ver 1 block Color: yellow		04.325.1456.0	10
10. Busbar				
E-Cu, 10 x 3 mm, tin-plate	ed, I _N = 140 A L = 1 m			
E-Cu, 10 x 3 mm, unplate	d, I _N = 140 A L = 1 m			
11. Connector clamps for busb	ar			
25 mm ²	11.1 mm wide			
35 mm ²	14.3 mm wide			
12. Busbar support	6 mm wide			
13. Rapid mounting tool				
For marking accessories see pa	ges 178-179 and 200/202	*CL I, ZN1, AExe II		

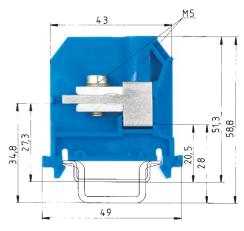
Neutral disconnect blocks with screw terminal, type 9700 A.. S35

selos CLASSIC LINE





40,5



*)Install in grounded systems 690/400 V

*)Install in grounded systems 690/400 V

9700 A/6 ETK S35

fine stranded solid V A $0.5-4~\text{mm}^2$ $0.5-6~\text{mm}^2$ 400~V/6~kV/3*) 25

9700 A/8 ETK S35

*)Install in grounded systems 690/400 V

fine stranded solid/stranded V 1 – 10 mm² 1 – 10 mm² 400 V/6 kV/3*)

9700 A/10 ETK S35

12 mm

10 mm

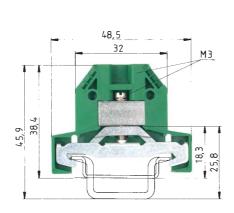
fine stranded solid/stranded V A 1.5 – 16 mm² 1.5 – 16 mm² 400 V/6 kV/3*) 50

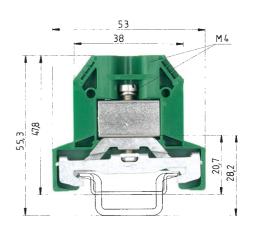
15 mm

\$ 8			\$					
Туре	Part no. S	td. pack	Туре	Part no.	Std. pack	Туре	Part no. St	d. pack
9700 A/6 ETK S 35	54.004.7753.0	0 100	9700 A/8 ETK S 35	54.010.7753	.0 100	9700 A/10 ETK S 35	54.016.7753.0	100
35 x 27 x 7,5 EN 60715	98.300.0000.0		35 x 27 x 7,5 EN 60715	98.300.0000		35 x 27 x 7,5 EN 60715	98.300.0000.0	
35 x 24 x 15 EN 60715	98.370.0000.0	0 1	35 x 24 x 15 EN 60715	98.370.0000	.0 1	35 x 24 x 15 EN 60715	98.370.0000.0	1
9708/2 S 35	Z5.522.8553.0	0 100	9708/2 S 35	Z5.522.8553	.0 100	9708/2 S 35	Z5.522.8553.0	100
9701/6 ETKL	07.310.4553.0	0 10						
			9701 B/8 ETK	07.310.5253	.0 50	9701 B/10 ETK	07.310.5353.0	50
9813 M	98.290.0000.0) 1	9813 M	98.290.0000.	0 1	9813 M	98.290.0000.0	1
9813 M SN	98.290.1000.0	0 1	9813 M SN	98.290.1000	.0 1	9813 M SN	98.290.1000.0	1
	30.494.1110.6	6 100		30.494.1110	.6 100		30.494.1110.6	100
	30.494.2510.6			30.494.2510			30.494.2510.6	
9701 ASH S 35	01.112.1453.0	0 100	9701 ASH S 35	01.112.1453	.0 100	9701 ASH S 35	01.112.1453.0	100

Ground blocks with screw technology, type 9700 A.. S35

selos CLASSIC LINE





9700 A/6 SL2 S35

DIN VDE 0611 Teil 3/11.98 **UL-ratings** field/factory wiring CSA ratings

Width Wire strip length

fine stranded solid V 800 V/8 kV/3*) $0.5-4 \text{ mm}^2$ $0.5-6 \text{ mm}^2$ 600 V*) No. 18-10 AWG No. 22-10 AWG 600 V *) 6 mm

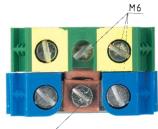
9 mm

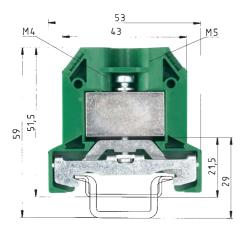
9700 A/8 SL2 S35

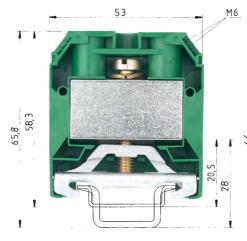
fine stranded solid/stranded 0.5 – 10 mm² 0.5 – 10 mm² 800 V/8 kV/3*) 600 V*) No. 18-8 AWG No. 18-8 AWG 600 V*)

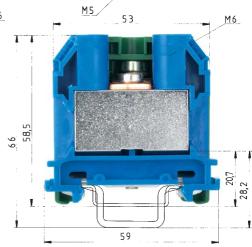
8 mm 11 mm

vvidtn Approvals	Wire strip length	\$\S\N*\G\B\\			9 mm	8 mm (\$) \(\S\) 71. * (6) (8))	II mm
		Type	Part no. Sto	I. pack		Type		. pack
Feed-through terminal	Color: gray	.,,,,,	rantino.	paon		.,,,,	raitino. Ota	. poor
Feed-through block, (Ex)i	Color: blue							
Neutral disconnect block	Color: blue							
Ground block	Color: green-yellow	9700 A/6 SL 2 S 35	56.004.9053.0	100		9700 A/8 SL 2 S 35	56.010.9053.0	100
PEN terminal	Color: green/yellow - blue							
Accessories								
1. Mounting rail TS 35, DIN	rail, 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1		35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN	rail 15 mm high L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1		35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp TS 35, with so	crew 8 mm wide	9708/2 S35	Z5.522.8553.0	100		9708/2 S 35	Z5.522.8553.0	100
3. End plate	Color: gray	9701/6 SL	07.312.0053.0	10		9701/8 SL	07.312.0153.0	10
	Color: blue							
	Color: green							
4. Partition plate	Color: gray							
	Color: blue							
5. Jumper bar with screws,	2pole							
E-Cu, uninsulated	3pole							
	4pole							
	5pole							
	6pole							
Cu	t-to-order strip 0.6 m long							
6. Switchable connecting lin	nk							
7. Stud bolt for test plug								
8. Test plug								
9. Cover with warn. symbol	over 1 block Color: yellow							
10. Busbar								
E-Cu, 10 x 3 mm, tin-pl	ated, I _N = 140 A L = 1 m							
E-Cu, 10 x 3 mm, unpla	ated, I _N = 140 A L = 1 m							
11. Connector clamps for bu	sbar							
25 mm ²	11.1 mm wide							
35 mm ² 14.3 mm wide								
12. Busbar support	6 mm wide							
13. Rapid mounting tool								
For marking accessories see	pages 178-179 and 200/202	*CL I, ZN1, AExe II				*CL I, ZN1, AExe II		









**)For the ratings to adjacent feed-through blocks of the same series and size

9700 A/16 PEN 2 S35

9700 A/10 SL2 S35

fine stranded solid/stranded 1.5 – 16 mm² 1.5 – 16 mm² 800 V/8 kV/3*) 600 V*) No. 18-6 AWG No. 16-6 AWG 600 V*) 10 mm 16 mm (\$ S AL * (1) B (4)

9700 A/16 SL2 S35

No. 12-2 AWG No. 12-2 AWG 600 V*)

16 mm (2) SN * O B (A)

18 mm

fine stranded solid/stranded $2.5-35 \text{ mm}^2$ $2.5-50 \text{ mm}^2$ 500 V/6 kV/3**)

32 mm 18 mm (B)

Type	(2) (2) AT . (6) (A)	9)		(2) (2) AT . (6) (A))		(E)C)		
35 x 27 x 7,5 EN 60715 98.300.0000.0 1 35 x 27 x 7,5 EN 60715 98.300.0000.0 1 35 x 27 x 7,5 EN 60715 98.300.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.370.0000.0 1 9708/2 S 35 Z5.522.8553.0 100 9708/2 S 35 Z5.522.8553.0 100 9708/2 S 35 Z5.522.8553.0 100 9701/10 SL 07.312.0253.0 10 9701/16 SL 07.312.0353.0 10 9701/12 BLAU 07.310.3353.6 10	Туре	Part no. Std	l. pack	Туре	Part no. St	d. pack	Туре	Part no.	Std. pack
9700 A/16 PEN 2, S 35 56.035.9453.0 20 35 x 27 x 7,5 EN 60715 98.300.0000.0 1 35 x 27 x 7,5 EN 60715 98.300.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.370.0000.0 1 9708/2 S 35 Z5.522.8553.0 100 9708/2 S 35 Z5.522.8553.0 100 9708/2 S 35 Z5.522.8553.0 100 9701/10 SL 07.312.0253.0 10 9701/16 SL 07.312.0353.0 10 9701/12 BLAU 07.310.3353.6 10									
9700 A/16 PEN 2, S 35 56.035.9453.0 20 35 x 27 x 7,5 EN 60715 98.300.0000.0 1 35 x 27 x 7,5 EN 60715 98.300.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.370.0000.0 1 9708/2 S 35 Z5.522.8553.0 100 9708/2 S 35 Z5.522.8553.0 100 9708/2 S 35 Z5.522.8553.0 100 9701/10 SL 07.312.0253.0 10 9701/16 SL 07.312.0353.0 10 9701/12 BLAU 07.310.3353.6 10									
9700 A/16 PEN 2, \$ 35 56.035.9453.0 20 35 x 27 x 7,5 EN 60715 98.300.0000.0 1 35 x 27 x 7,5 EN 60715 98.300.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.370.0000.0 1 9708/2 \$ 35 Z5.522.8553.0 100 9708/2 \$ 35 Z5.522.8553.0 100 9708/2 \$ 35 Z5.522.8553.0 100 9701/10 \$L 07.312.0253.0 10 9701/16 \$L 07.312.0353.0 10 9701/12 BLAU 07.310.3353.6 10									
35 x 27 x 7,5 EN 60715 98.300.0000.0 1 35 x 27 x 7,5 EN 60715 98.300.0000.0 1 35 x 27 x 7,5 EN 60715 98.300.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.370.0000.0 1 9708/2 \$ 35 Z5.522.8553.0 100 9708/2 \$ 35 Z5.522.8553.0 100 9708/2 \$ 35 Z5.522.8553.0 100 9701/10 \$L 07.312.0253.0 10 9701/16 \$L 07.312.0353.0 10 9701/12 BLAU 07.310.3353.6 10	9700 A/10 SL 2 S 35	56.016.9053.0	50	9700 A/16 SL 2 S 35	56.035.9053.0	50			
35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.370.0000.0 1 9708/2 S 35 Z5.522.8553.0 100 9708/2 S 35 Z5.522.8553.0 100 9701/16 SL 07.312.0253.0 10 9701/16 SL 07.312.0253.0 10 9701/12 BLAU 07.310.3353.6 10							9700 A/16 PEN 2, S 35	56.035.9453	3.0 20
35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.370.0000.0 1 9708/2 S 35 Z5.522.8553.0 100 9708/2 S 35 Z5.522.8553.0 100 9701/16 SL 07.312.0253.0 10 9701/10 SL 07.312.0253.0 10 9701/16 SL 07.312.0353.0 10 9701/12 BLAU 07.310.3353.6 10									
35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 35 x 24 x 15 EN 60715 98.370.0000.0 1 9708/2 S 35 Z5.522.8553.0 100 9708/2 S 35 Z5.522.8553.0 100 9701/16 SL 07.312.0253.0 10 9701/10 SL 07.312.0253.0 10 9701/16 SL 07.312.0353.0 10 9701/12 BLAU 07.310.3353.6 10									
9708/2 S 35 Z5.522.8553.0 100 9701/10 SL 07.312.0253.0 10 9701/16 SL 07.312.0353.0 10 9701/12 BLAU 07.310.3353.6 10	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000	0.0 1
9701/10 SL 07.312.0253.0 10 9701/16 SL 07.312.0353.0 10 9701/12 BLAU 07.310.3353.6 10	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.370.0000	0.0 1
9701/12 BLAU 07.310.3353.6 10	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553	3.0 100
	9701/10 SL	07.312.0253.0	10	9701/16 SL	07.312.0353.0	10			
9702/12 BLAU 07.310.3653.6 10							9701/12 BLAU	07.310.3353	3.6 10
9702/12 BLAU 07.310.3653.6 10									
							9702/12 BLAU	07.310.3653	3.6 10
*CL I, ZN1, AExe II	*CL I. ZN1. AExe II			*CLI 7N1 AFve II					

Accessories for DIN rail mount terminal blocks with screw technology, type 9700 A.. S35

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Jumper bar with screws

Warning cover

oumper but w	Terr Sorews			waiting cove	<i>,</i> ,
Туре	Part no. Std. pack	Type	Part no. Std. pack	Type	Part no. Std. pack
2,5 mm ²		16 mm ²		for terminal block ty	pe 9700 A/ S 35
9700 A/5 S 35		9700 A/10 S 35			
2pole 9703/5-2	Z7.215.0227.0 50	2pole 9703/10-2	Z7.214.0227.0 50	2,5 mm ²	04.325.1656.0 10
3pole 9703/5-3	Z7.215.0327.0 50	3pole 9703/10-3	Z7.214.0327.0 50	4 mm ²	04.325.1056.0 10
4pole 9703/5-4	Z7.215.0427.0 50	4pole 9703/10-4	Z7.214.0427.0 50	10 mm ²	04.325.1156.0 10
5pole 9703/5-5	Z7.215.0527.0 50	5pole 9703/10-5	Z7.214.0527.0 50	16 mm ²	04.325.1256.0 10
6pole 9703/5-6	Z7.215.0627.0 50	6pole 9703/10-6	Z7.214.0627.0 50	25 mm ²	04.325.1356.0 10
90 pole 9703/5 M-90	Z7.215.0027.0 10	40pole 9703/10 M-40	Z7.214.0027.0 10	35 mm ²	04.325.1456.0 10
4 mm ²		25 mm ²			
9700 A/6 S 35		9700 A/12 S 35			
2pole 9703/6-2	Z7.211.0227.0 50	2pole 9703/12-2	Z7.213.0227.0 50		
3pole 9703/6-3	Z7.211.0327.0 50	3pole 9703/12-3	Z7.213.0327.0 50		
4pole 9703/6-4	Z7.211.0427.0 50	4pole 9703/12-4	Z7.213.0427.0 50		
5pole 9703/6-5	Z7.211.0527.0 50	5pole 9703/12-5	Z7.213.0527.0 50		
6pole 9703/6-6	Z7.211.0627.0 50	6pole 9703/12-6	Z7.213.0627.0 50		
70 pole 9703/6 M-70	Z7.211.0027.0 10	30pole 9703/12 M-30	Z7.213.0027.0 10		
10 mm ²		35 mm ²			
9700 A/8 S 35		9700 A/16 S 35			
2pole 9703/8-2	Z7.212.0227.0 50	2pole 9703/16-2	Z7.216.0227.0 50		
3pole 9703/8-3	Z7.212.0327.0 50	3pole 9703/16-3	Z7.216.0327.0 50		
4pole 9703/8-4	Z7.212.0427.0 50	4pole 9703/16-4	Z7.216.0427.0 50		
5pole 9703/8-5	Z7.212.0527.0 50	5pole 9703/16-5	Z7.216.0527.0 50		
6pole 9703/8-6	Z7.212.0627.0 50	6pole 9703/16-6	Z7.216.0627.0 50		
50 pole 9703/8 M-50	Z7.212.0027.0 10	20pole 9703/16 M-20	Z7.216.0027.0 10		









- ① Switchable connecting link
- 2 Screws with link
- 3 Screw spacer

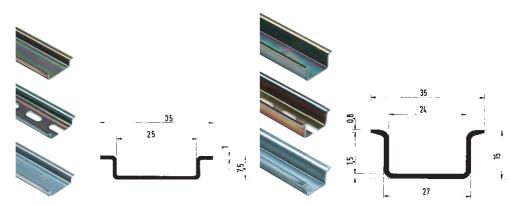
- **4** Test socket
- **⑤ Test plug with insulated handle**
- **7** Shorting plug
- **6 Modular test plug**

Rapid mounting tool

o Screw s	spacer		® iviodula	r test plug	napid mo	unting tool
Туре	Part no. Std.	pack	Type	Part no. Std. pack	Type	Part no. Std. pack
for terminal blo	ock type 9700 A/ S 35		for terminal bloo	ck type 9700 A/ S 35	for terminal blo	ck type 9700 A/ S 35
Switchable	connecting link		Test socket		Rapid moun	nting tool
2,5 mm ²	Z7.269.3523.0	50	2,5 mm ²	05.508.8921.0 10	2,5 mm ²	05.593.5853.0 10
4 mm ²	Z7.269.2923.0	50	4 mm ²	05.508.8821.0 10	4 mm ²	05.593.4153.0
10 mm ²	Z7.269.3023.0	50	10 mm ²	05.508.3221.0 10	10 mm ²	05.593.5953.0 10
16 mm ²	Z7.269.3123.0	50	16 mm ²	05.508.3121.0 10		
25 mm ²	Z7.269.3223.0	50	25 mm ²	05.508.6521.0 10		
35 mm ²	Z7.269.3423.0	50	35 mm ²	05.508.6521.0 10		
Switchable	connecting link wit	h corowe	Tost plugi	h inquilated handla		
2.5 mm ²	Z7.269.2823.0	50	Ø 2,3 mm 2,5/-	h insulated handle		
2,5 mm ²	Z7.269.2823.0 Z7.269.0623.0	50		4 mm² red /25/35 mm² black		
4 mm ²	Z7.269.0623.0 Z7.269.0523.0	50	2.5 mm ²	· · · · · · · · · · · · · · · · · · ·		
10 mm ²	Z7.269.0523.0 Z7.269.0723.0	50	2,5 mm ² 4 mm ²	Z5.553.2921.0 10 Z5.553.2921.0 10		
io mm²	27.269.0723.0	DU	4 mm ²	Z5.553.2921.0 10 Z5.553.3021.0 10		
Throadod at	tud halt (carayy ana	oorl				
2.5 mm ²	tud bolt (screw spa 05.508.8621.0		16 mm ²	Z5.553.3021.0 10 Z5.553.3021.0 10		
2,5 mm ²		50	25 mm ²			
4 mm ²	05.508.8621.0 05.508.8721.0	50	35 111111-	Z5.553.3021.0 10		
10 mm ²			Shorting plu	2		
ιο mm²	05.508.9721.0	50	Shorting plu	9 Z5.553.9400.0 100		
			For all 6 mm :::	de control cabinet terminal blocks, to		
				er with stud bolts		
			(part no. 05.508	0.0021)		
			Modular tes	t plug		
			snap-on with lo	cking lever for 9700 A 6/S 35		
				Z1.299.7153.0 10		
			Test plug			
			snap-on	Z1.299.8153.0 10		

Accessories for DIN rail terminal blocks with screw connection

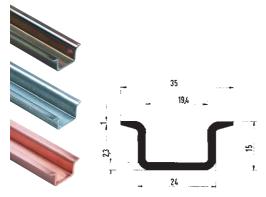
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Mounting rail 35 x 7.5 accord. to DIN EN 60715

Mounting rail 35 x 15 accord. to DIN EN 60715

		Type	Part no. Std. pa	ick	Type	Part no.	Std. pack
Mounting rail							
1. Steel, galv. zinc-plated and dichr	romated,unslotted L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 15 EN 60715	98.370.0	000.0 1
Steel, galv. zinc-plated and did	chromated,slottedL = 2 m	35 x 27 x 7,5 EN 60715 slotted	98.300.1000.0	1	35 x 27 x 15 EN 60715	98.370.1	000.0 1
2. Steel, unplated	unslotted L = 2 m	35 x 27 x 7,5 EN 60715 unplated	98.300.0010.0				
Steel, unplated	slotted L = 2 m						
3. Steel, hot-galvanized	unslotted L = 2 m						
Steel, hot-galvanized	slotted L = 2 m						
4. E copper	unslotted L = 2 m						
E copper	slotted L = 2 m						
5. Aluminum	unslotted L = 2m	35 x 27 x 7.5 EN 60715	98.750.0000.0				
	slotted L = 1 m	35 x 27 x 7.5 EN 60715	98.800.1000.0				
6. Stainless steel	unslotted $L = 2m$	35 x 27 x 7.5 EN 60715	98.330.0000.0				
End clamp							
7. End clamp with screw for 3	5 mm rail 8 mm wide						
8. End clamp with screw for 35	mm rail						
with marking plate	8/17.5 mm wide						
9. End clamp, screwless, for 3	5 mm rail 8 mm wide						
10. End clamp, screwless, for 35							
with marking plate	8/17,5 mm wide						
for terminal rails	5, 11, 72 111111 11112						
11. Bus bar holder	8 mm wide						
Busbar support, with screw							
12. Clamping screw for mounting							
13. Optional label carrier							
Paper Markers in perforated	sheet form						
(1 sheet = 100 Marking tags							







Mounting rail 35 x 15 accord. to DIN EN 60715

End clamp for TS 35 Screw Mounting

End clamp for TS 35 Screwless Mounting

accord. to DIN EN	1 607 15	Screw Mour	iting		Screwless I	viounting	
Type	Part no. Std. pack	Туре	Part no. St	td. pack	Туре	Part no.	Std. pack
35 x 27 x 15 EN 60715	98.360.0000.0 1						
35 x 27 x 15 EN 60715 ZN	98.360.0004.0 1						
05 05 45 5N 00545 ON							
85 x 27 x 15 EN 60715 CU	98.380.0000.0 10						
		9708/2 S 35	Z5.522.8553.0	100			
		9708/2 BS/35	69.920.0553.0	100			
		3134,233,43					
					WEF 1/35	Z5.523.9353.0	100
					WEF 1 BS/35	69.920.1053.0	100
					WKIF SH/E/35	Z1.108.8453.0	10
						69.920.1153.0	
						05.091.0200.0	
					BSIR	Z4.243.8453.0	
		04.019.0289.0	10			04.019.0289.0	10

Marking accessories for DIN rail terminal blocks

selos CLASSIC LINE







5 mm pitch

Material: Polyamide 66/6 Color: black figures on white background

DIN rail terminal blocks with screw connection of series 97.., can take in marking tags on both sides on top of the block in a 3-chamber slot. It can be either 3 single number tags from the tear-off marking strip, or single tags, or marking strips.

 Marking strips marked and unmarked, made from Polyamide 66/6, suitable for 10 blocks in a row.

Marking 1-10, 11-20 etc. up to 991-999. Type 9705 A/5/10 (5 mm spacing) for 5mm wide terminal blocks
Type 9705 A/6/10 (6 mm spacing) for 6 mm wide terminal blocks
Typ 9705 A/8/10 (8 mm spacing) for 8 mm wide terminal blocks
Type 9705 A/5/10/5 B (10 mm spacing) for 10 mm wide terminal blocks
Type 9705 A/6/10/5 B (12 mm spacing) for 12 mm wide terminal blocks
Typ 9705 A/8/10/5 B (16 mm spacing) for 16 mm wide terminal blocks

Tear-off marking strip with 10 marking tags, made from Polyamide 66/6, white, marked and unmarked.

This marking system considerably reduces the time required for marking terminal block rows. For numerical marking of terminal block rows only 11 stock positions are required. As the time used for picking and attaching the tags is reduced, and as stockkeeping is low and the prices extremely favorable, enormous cost savings are the result from using these tear-off marking strips.

Type 9704 A... (see page 180)

 Single marking tag made from white Polyamide 66/6, marked and unmarked. Type 9705 A...

All terminal widths/pitch

Type	Part no.	Std. pack	Type	Part no.	Std. pack
,,	tag, unmarked		Marking strips, unm		
9705 A	04.242.085	0.0 500	9705 A/5/10	04.242.5053.	.0 25
Single marking			Marking strips, mar		
9705 AB*	04.842.085	0.0 500	3 44 [44,		
			9705 A/5/9 B 1 - 9	04.842.4953.	.0 25
			9705 A/5/10 B*	04.842.5053.	.0 25
			9705 A/5/10 B 1 - 10	04.845.0153.	.0 25
			11 - 20	04.845.0253.	.0 25
Single marking	g tag, unmarked		21 - 30	04.845.0353.	.0 25
with enlarged	marking area		31 - 40	04.845.0453.	.0 25
9705 AL	04.242.155	3.0 500	41 - 50	04.845.0553.	.0 25
			51 - 60	04.845.0653.	.0 25
Single marking	g tag, marked		61 - 70	04.845.0753.	.0 25
for enlarged m	arking area		71 - 80	04.845.0853.	.0 25
9705 ALB	04.842.155	3.0 500	81 - 90	04.845.0953.	.0 25
			91 - 100	04.845.1053.	0 25
			⊕ (10 x)	04.855.0053.	.0 25
			± (10 x)	04.855.0153.	.0 25
			+ (10 x)	04.855.0253.	.0 25
			- (10 x)	04.855.0353.	.0 25
			L1 (10 x)	04.855.0453.	.0 25
			L2 (10 x)	04.855.0553.	.0 25
			L3 (10 x)	04.855.0653.	.0 25
			PE (10 x)	04.855.0753.	.0 25
			SL (10 x)	04.855.3153.	.0 25
			N (10 x)	04.855.3253.	.0 25
			F1 (10 x)	04.855.0953.	.0 25
			F2 (10 x)	04.855.1053.	.0 25
			L1, L2, L3, N, PE (2 x)	04.855.0853.	.0 25
			with enlarged marking	g area	
			9705 AL/5/10	04.242.5153.	.0 25
*Custom marki	ng upon request		* Custom marking up	on request	



6 mm pitch

8 mm pitch

10 mm pitch

12 mm pitch

16 mm pitch

уре		pack	Туре	Part no. Std.	pack	Type	Part no. Std. pack
Marking strips, un			Marking strips, unr			40 2/40	
9705 A/6/10	04.242.6053.0	25	9705 A/8/10	04.242.8053.0	25	16 mm ² /10 r	mm pitch
Marking strips, ma	arked		Marking strips, ma	rked		marked for 5 bloc	ks (every 2nd tag) *
9705 A/6/9 B 1 - 9	04.842.5953.0	25	9705 A/8/9 B 1 - 9	04.842.7953.0	25	9705 A/5/10/5 B	04.842.5553.0 25
9705 A/6/10 B*	04.842.6053.0	25	9705 A/8/10 B*	04.842.8053.0	25		
9705 A/6/10 B 1 - 1O	04.846.0153.0	25	9705 A/8/10 B 1 - 10	04.848.0153.0	25		
11 - 20	04.846.0253.0	25	11 - 20	04.848.0253.0	25		
21 - 30	04.846.0353.0	25	21 - 30	04.848.0353.0	25		
31 - 40	04.846.0453.0	25	31 - 40	04.848.0453.0	25	25 mm ² /12 r	nm pitch
41 - 50	04.846.0553.0	25	41 - 50	04.848.0553.0	25		
51 - 60	04.846.0653.0	25	51 - 60	04.848.0653.0	25	marked for 5 bloc	ks (every 2nd tag) *
61 - 70	04.846.0753.0	25	61 - 70	04.848.0753.0	25	9705 A/6/10/5 B	04.842.6553.0 25
71 - 80	04.846.0853.0	25	71 - 80	04.848.0853.0	25		
81 - 90	04.846.0953.0	25	81 - 90	04.848.0953.0	25		
91 - 100	04.846.1053.0	25	91 - 100	04.848.1053.0	25		
						0.	
⊕ (10	x) 04.856.0053.0	25	⊕ (10 >	() 04.858.0053.0	25	35 mm ² /16 r	nm pitch
- (10	x) 04.856.0153.0	25	<u></u> (10 >	() 04.858.0153.0	25		
+ (10	x) 04.856.0253.0	25	+ (10 >	() 04.858.0253.0	25	marked for 5 bloc	ks (every 2nd tag) *
- (10	x) 04.856.0353.0	25	- (10 >	() 04.858.0353.0	25	9705 A/8/10/5 B	04.842.8553.0 25
L1 (10	x) 04.856.0453.0	25	L1 (10>	() 04.858.0453.0	25		
L2 (10	x) 04.856.0553.0	25	L2 (10 >	() 04.858.0553.0	25		
L3 (10	x) 04.856.0653.0	25	L3 (10 >	() 04.858.0653.0	25		
PE (10	x) 04.856.0753.0	25	PE (10 >	() 04.858.0753.0	25		
SL (10	x) 04.856.3153.0	25	SL (10>	() 04.858.3153.0	25		
N (10	x) 04.856.3253.0	25	N (10 >	() 04.858.3253.0	25		
F1 (10	x) 04.856.0953.0	25	F1 (10 >	() 04.858.0953.0	25		
F2 (10	x) 04.856.1053.0	25	F2 (10 >	() 04.858.1053.0	25		
L1, L2, L3, N, PE (2	x) 04.856.0853.0	25	L1, L2, L3, N, PE (2 >	() 04.858.0853.0	25		
	ng area						
with enlarged marki							
with enlarged marki 9705 AL/6/10	04.242.6353.0	25					

Marking accessories for DIN rail terminal blocks



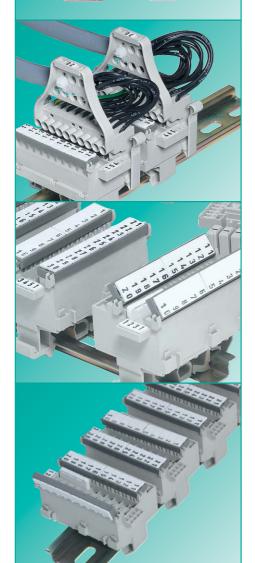
Tear-off marking strip with 10 marking tags

Material: Polyamide 66/6 white, marking in black Marking per str	ip										Туре	Part no. Stand	. pack
unmarked											9704 A	04.241.1150.0	25
marked with the same number	1	1	1	1	1	1	1	1	1	1	9704 A/1 B	04.841.1150.0	25
	2	2	2	2	2	2	2	2	2	2	9704 A/2 B	04.841.1250.0	25
201111	3	3	3	3	3	3	3	3	3	3	9704 A/3 B	04.841.1350.0	25
TOTAL TOTAL TOTAL	4	4	4	4	4	4	4	4	4	4	9704 A/4 B	04.841.1450.0	25
	5	5	5	5	5	5	5	5	5	5	9704 A/5 B	04.841.1550.0	25
	6	6	6	6	6	6	6	6	6	6	9704 A/6 B	04.841.1650.0	25
	7	7	7	7	7	7	7	7	7	7	9704 A/7 B	04.841.1750.0	25
	8	8	8	8	8	8	8	8	8	8	9704 A/8 B	04.841.1850.0	25
	9	9	9	9	9	9	9	9	9	9	9704 A/9 B	04.841.1950.0	25
	0	0	0	0	0	0	0	0	0	0	9704 A/0 B	04.841.2050.0	25
marked with consecutive numbers	1	2	3	4	5	6	7	8	9	0	9704 A/1-0 B	04.841.2150.0	25
marked with the same symbols	+	+	+	+	+	+	+	+	+	+	9704 A/+ B	04.841.7450.0	25
	_	_	_	_	_	_	_	_	_	_	9704 A/- B	04.841.7550.0	25
	/	/	/	/	/	/	/	/	/	/	9704 A// B	04.841.7650.0	25
											9704 A/. B	04.841.7750.0	25
1 set of the same numbers													
= 10 x 25 strips = 2500 numbers 1 set of capital letters	1	1	1		0	0	0				A to Z (capital letters)	04.841.9050.0	1
= 26 x 25 strips = 6500 letters	A	Α	Α		Z	Z	Z				a to z (small letters)	04.841.9150.0	1
1 set of small letters													
= 26 x 25 strips = 6500 letters	а	а	а		Z	Z	Z					04.841.9250.0	1

TOP system







The TOP system offers

- ☐ Terminal block module based on narrow pitch of 5mm
- ☐ Top-System allows wire entry and screwdriver access in the same plane

Application advantages

- → Save space in the panel up to 40%
- Ease of inserting and terminating the conductor

Universal mounting foot for

☐ TS 35 mm DIN rail to EN 60715

☐ TS 32 mm DIN rail to EN 60715

Feed-through terminals located in the center

Materials:

Insulating housing: Polyamide 66/6 Clamping body / clamping screws: steel,

zinc-plated and dichromated

Current Carrying Bar: Tin-plated copper alloy

- Easy mounting, secure attachment on all types of DIN rail
- → Due to its excellent electrical, chemical and mechanical properties
- → Low contact resistance
- → Each terminal can be marked individually

TOP plug system

Accepts 10 pole plug-able connector

Coding capability: 28 coding configurations

Plug-able connector with locking levers

Strain relief

Ease of use

Clean and neat wiring

Plug-able connector cannot be mismated Plug-able connector provides a safe connection which locks in place

Strain relief with cable ties via holes on the marking late

Top-system standard

10 pole feed through terminal block module

Orientation perpendicular to the mounting rail

Pitch/width is only 39 mm for 10 terminals Screw technology

Ease of use

Clean and neat wiring

Secure connection

Marking tag system

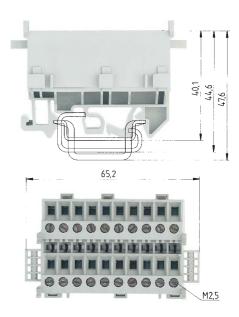
- ☐ Snap in marking tag carrier
- ☐ Marking facility for module
- ☐ Marking system uses Wieland standard
- ☐ Module is molded with marking 1-10

Potential commoning

☐ Insulated plug-in jumper bars (2-10 pole)

- → Mark every termination point
- Mark modules individually
- → Reduces Inventory
- → Quick and easy installation (no screws)
- → Increased safety due to tough safe design





WKB 2,5/U

fine stranded solid V A
0.5 - 2.5 mm² 0.5 - 4 mm² 400 V/6 kV/3 20
No. 22-12 AWG 300 V 10
No. max. 12 AWG 300 V 10
39 mm 10 mm

(2) (2)

Wire strip length

	(S) 74 (F)		
	Type	Part no. Sto	l. pack
	WKB 2,5/U	57.603.0055.0	10
gh L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
h L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1
L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1
10 mm wide	WE 1/U	Z5.523.5753.0	100
8 mm wide	9708/2 S 35	Z5.522.8553.0	100
.5 mm wide	9708	Z5.522.7053.0	100
2pole		Z7.258.0225.0	10
3pole		Z7.258.0325.0	10
to 10pole		Z7.258.1025.0	10
right		05.523.1610.0	10
left		05.523.1710.0	10
		04.242.3253.0	
nd 250-251			
d adjacent to	each other,		
	L = 2 m 10 mm wide 8 mm wide .5 mm wide 2pole 3pole to 10pole right left	Type WKB 2,5/U gh L = 2 m	Type Part no. Store WKB 2,5/U 57.603.0055.0 Type Part no. Store WKB 2,5/U 57.603.0055.0 gh L = 2 m 35 x 27 x 7,5 EN 60715 98.300.0000.0 h L = 2 m 35 x 24 x 15 EN 60715 98.360.0000.0 L = 2 m 9006 EN 60715 G-32 98.190.0000.0 8 mm wide WE 1/U Z5.523.5753.0 8 mm wide 9708/2 S 35 Z5.522.8553.0 5 mm wide 9708 Z5.522.7053.0 2pole Z7.258.0225.0 3pole Z7.258.0325.0 to 10pole Z7.258.1025.0 right 05.523.1610.0 left 05.523.1710.0

^{*)} When two cross connectors are mounted adjacent to each other, the rated voltage is reduced to 250 V/4 kV/3

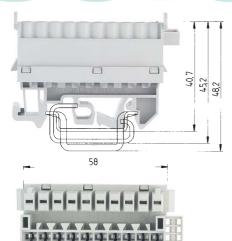
EN 60 947-7-1/DIN VDE 0611 T1

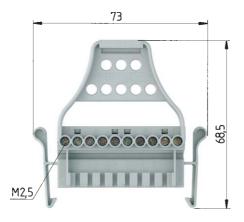
UL-ratings

CSA ratings

Approvals

Width





WKB 2,5/B/U

fine stranded solid $0.5 - 2.5 \text{ mm}^2$ $0.5 - 4 \text{ mm}^2$ V 400 V/6 kV/3 10 No. 22-12 AWG 300 V 5 No. 22-12 AWG 300 V 5 38 mm 10 mm (±) **91.** (£)

ST 29/10 S

fine stranded solid 0.5 - 2.5 mm² 0.5 - 4 mm² 400 V/6 kV/3 10 No. 22-14 AWG 300 V 5 No. 22-14 AWG 300 V 5 6 mm

(2) 91. (3)

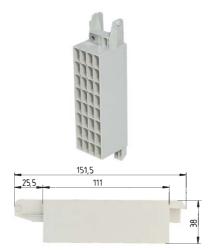
(S) 711 (B)			(S) 74 (F)		
Туре	Part no. Std	I. pack	Туре	Part no.	Std. pack
WKB 2,5/B/U	57.603.3555.0	10			
VVIX.D 2,3/15/10	37.000.000.0	10	ST 29/10 S	93.102.00	55.0 50
35 x 27 x 7,5 EN 60715	98.300.0000.0	1			
35 x 24 x 15 EN 60715	98.360.0000.0	1			
9006 EN 60715 G-32	98.190.0000.0	1			
WE 1/U	Z5.523.5753.0	100			
9708/2 S 35	Z5.522.8553.0	100			
9708	Z5.522.7053.0	100			
	Z7.258.0225.0	10		Z7.258.022	25.0 10
	Z7.258.0325.0	10		Z7.258.032	25.0 10
	Z7.258.1025.0	10		Z7.258.102	25.0 10
	05 500 005-	100		05.505.53	
	05.599.8053.0	100		05.599.80	53.0 100

Coding

County	
B	1. combination 2. combination 3. combination 4. combination 5. combination 6. combination 7. combination 8. combination 10. combination 11. combination 12. combination 13. combination 14. combination 15. combination 16. combination 17. combination 18. combination 19. combination 19. combination 20. combination
	etc.

Distribution module, 32 pole plug-able system with shield connection

selos



151,5 25,5 111

Material:

Insulating part: Polyamide 66/6 gray, blue

gray (per pole)

blue

Tab connector: tin-plated copper alloy

Spring contact: tin-plated bronze

Tab connector: 2.8 x 0.8 mm

Voltage accord. to DIN VDE 0110

Distribution module

*) Push-on connector Push-on connector 2.8 mm 10 A TERMI-POINT 10 A

RV2S/...

Front Rear V 400 V/6 kV/3

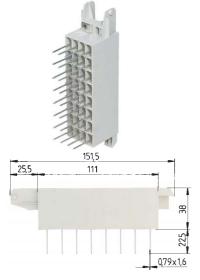
 $3 \times 2.8 \times 0.8$ $3 \times 2.8 \times 0.8$ $2 \times 2.8 \times 0.8$ $2 \times 2.8 \times 0.8$

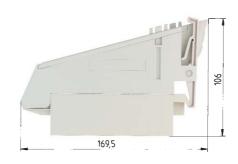
RV2S/...L

Front Rear V / 400 V/6 kV/3 *

 $3 \times 2.8 \times 0.8$ 1 Lötanschluss $2 \times 2.8 \times 0.8$ 1 Lötanschluss

	Туре	Part no. Std. pack	Туре	Part no. Std. pack
Distribution module pluggable system Color: gray	RV2S/6	26.500.2053.0 10	RV2S/3L	26.500.2153.0 10
Color: blue	RV2S/4 blau	26.500.2353.0 10	RV2S/2L blau	26.500.2453.0 10
Plug-able connector Color: gray				
Color: blue				
Accessories				
1. Spring contact for 0.5 - 1 mm ²				
Banded contacts				
Single contact				
4. Spring contact for 0.1 – 0.5 mm ²				
Banded contacts				
Single contact				
7. Crimp Tool				
8. Contact removal tool				
9. Replacement latch				
For marking systems see pages 178-183 and 250-251				





400 V/6 kV/3





RV2S/...TP1

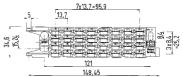
Front Rear V 400 V/6 kV/3

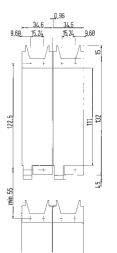
3 x 2,8 x 0,8 2 x 2,8 x 0,8

1 x Termi-Point

2 x 2,8 x 0,8 1 x Termi-Point

Туре	Part no. Std.	pack	Туре	Part no.	Std. pack
RV2S/3TP1	26.500.2253.0	10			
RV2S/2TP1blau	26.500.2553.0	10			
				93.004.005	6.0 10
				93.004.005	6.6 10
				02.124.400	0.0 4000
				02.124.402	
				02.124.410	0.0 4000
				02.124.412	
				95.101.061	
				05.502.020	
				05.502.050	





The narrow design of the terminal block is only 35 mm wide, with 32 connections in four rows and, means that you can increase the packing density when using touch-on clamp type or solder connection methods. This sytem can be expanded using a 32 pole plug which enables simultaneous connection of 32 contacts. Advantages:

- easy connection of all poles via a hinged lever on the group plug
- can be fixed securely by means of an easy-to-operate locking lever on the lower section
- cable strain relief
- a cover on the plug connector enables measurements to be taken when the group plug in connected
- leading earth contact which can be directly connected to the frame upon assembly
- marking facility marker tag type 9705 AB and 9704 AB (see page 180)

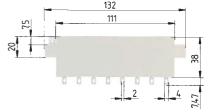
Distribution Module 32pole

selos



132





Material:

Insulating part: Polyamide 66/6 gray, blue Tab connector: tin-plated brass Tab connector: 2.8 x 0.8 mm

*) Push-on connector Push-on connector TERMI-POINT

Voltage accord. to DIN VDE 0110

Stacking coordinate gray (per pole)

6.3 mm 2.8 mm 20 A 10 A 10 A

RV2/A...

Front Rear

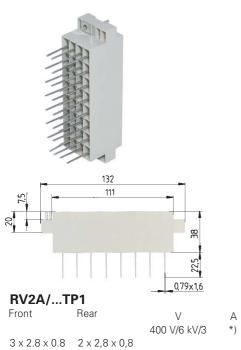
400 V/6 kV/3

3 x 2.8 x 0.8 3 x 2.8 x 0.8 2 x 2.8 x 0.8 2 x 2.8 x 0.8 RV2A/...L

Front Rear 400 V/6 kV/3

3 x 2.8 x 0.8 2 x 2.8 x 0.8

		Туре	Part no. Std. pa	ck	Type	Part no. St	d. pack
Distribution module standard version	Color: gray	RV2A/6	26.500.4053.0	10	RV2A/3L	26.500.4153.0	10
	Color: blue	RV2A/4 blau	26.500.4353.0	10	RV2A/2L blau	26.500.4453.0	10
For marking systems see pages 178-183	3 and 250-251						

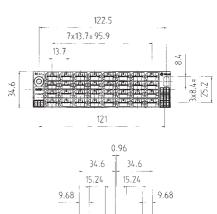


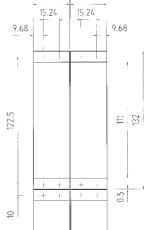
3 x 2.8 x 0.8	2 x 2,8 x 0,8				
	1 x Termi-Point				
$2 \times 2.8 \times 0.8$	1 x Termi-Point				

Туре	Part no.			
RV2A/3TP1	26.500.4	253.0	10	
RV2A/2TP blau	26.500.4	553.0	10	







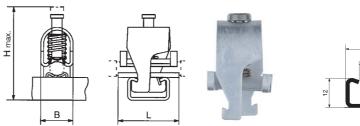


Shielded cable terminals, type SK



System advantages

- ☐ Easy and safe contacting without damage to the braided shield
- ☐ Stainless Steel pressure spring ensures excellent contact
- ☐ Corrosion resistant due to anticorodal contact material
- □ spring terminal available in three different sizes (5 34 mm diameter)
- Potential commoning via the mounting rail
- ☐ Insulated mounting of the rail via the plastic (duroplast) mounting feet



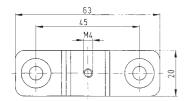
Material: Anticorodal

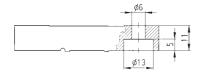


SK...

Туре	Clamping	В	L	H _{max}
(shielded cable diameter)	Force			
SK5-11	14-24 N	17 mm	32 mm	49 mm
SK9,5-13,5	20-35 N	22 mm	32 mm	54 mm
SK12,5-16,5	28-47 N	26 mm	32 mm	58,5 mm
SK15,5-20,5	70-95 N	32 mm	32 mm	66,5 mm
SK19-27	85-107 N	39 mm	32 mm	73 mm
SK26-34	105-130 N	48 mm	32 mm	84 mm

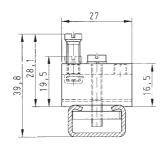
		Туре	Part no. Std. p	oack	Type	Part no.	Std. pack
Shielded cable terminals		SK 5-11		10			
		SK 9,5-13,5	Z2.803.0328.0	10			
		SK 12,5-16,5	Z2.803.0428.0	10			
		SK 15,5-20,5	Z2.803.2228.0	10			
		SK 19-27	Z2.803.2328.0	10			
		SK 26-34	Z2.803.2428.0	10			
Accessories							
Mounting rail (galvanized steel)	L = 2 m					98.400.000	0.00 1
2. Mounting feet	Color: light gray						
3. Ground terminal							





Base: Duroplast, light gray Female part: brass Thread: M4





Ground terminal for mounting rail. Clamping body: nickel plated copper alloy

Rated cross section: 16 mm²

rated wire guage stranded: 10 – 16 mm² / 6 – 4 AWG 1.5 – 16 mm² / 18 – 4 AWG fine stranded:

Wire strip length: 11 mm Width: 8.4 mm

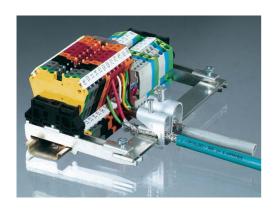




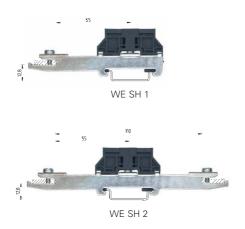
Туре	Part no.	Std. pack	Type	Part no.	Std. pack
717-			.,,,,		Part.
	71 000 00	40.0 10			
	21.300.00	40.0 10	0700/105/1	70 000 10	01.0 10
			9700/10E/1	Z2.302.13	21.0 10

Shielded cable terminals, type SKN







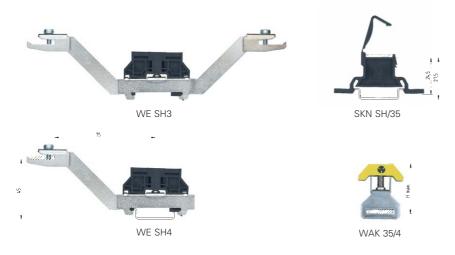


Material: nickel-plated brass

SKN...

Туре	Clamping	В	L	H _{max}
(shielded cable diameter)	force			
SKN1,5-6,5	8-13 N	10 mm	25 mm	33,5 mm
SKN5-11	22-31 N	17 mm	25 mm	41 mm
SKN10-17	32-58 N	23 mm	25 mm	57 mm
SKN16-24	37-53 N	30 mm	25 mm	71 mm

	Туре	Part no. Std. pacl	k	Туре	Part no. Std. pack
Shielded cable terminals	SKN1,5-6,5	Z2.803.1328.0 10	0		
	SKN5-11	Z2.803.1428.0 10	0		
	SKN10-17	Z2.803.1528.0 10	0		
	SKN16-24	Z2.803.1628.0 10	0		
Accessories					
Busbar support (one-sided), tin-plated steel				WE SH 1/35	Z5.515.3310.0 20
Busbar support (two-sided), tin-plated steel				WE SH 2/35	Z5.515.3410.0 20
Busbar support, plastic Color: black					
2. Ground terminal, tin-plated steel Color: green-yellow					
3. Busbar, Cu tin-plated 18x3 mm L = 1 m					
·					
10					

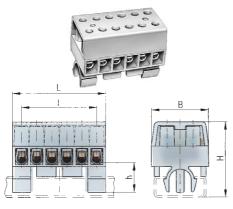


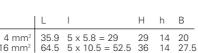


Type	Part no. Std. pack	Туре	Part no. Std. pack	
WESH4/35	Z5.519.0410.0 25			
WESH3/35	Z5.519.0310.0 25			
WESHS/33	25.519.0310.0 25	CKNCIT/SE/E	Z1.980.0153.0 10	
		SKNSH/35/F		
		WAK35/4GN	30.494.4210.0	
		18 x 3MSN	98.291.1000.0 10	

Busbar components Selos

Insulating housing: Polyamide 66/6 - tracking resistant Clamping body: nickel-plated brass Wire protection: phosphor bronze Clamping screws: steel, zinc-plated and dichromated





V 500 V/6 kV/3

DIN VDE 0110

Approvals

KEMA

		туре	Part no. Std.	Dack
Terminal block (up to 10 AWG)		KL28/6DSPA	33.011.0653.0	50
Terminal block (up to 4 AWG)		KL29/6DSPA	33.041.0653.0	20
Accessories for N and PE distribution te	rminals			
1. PE and N rail carrier with sliding nut				
Spacer for separating busbars				
3. Slotted mounting rail				
4. End clamp, 9mm wide				
5. Sliding nut				
0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1	IV/DIV/4 0	77.055.0007.0	10
6. Jumper bar, insulated for KL28	2pole	IVBIK4-2	Z7.255.0227.0	10
	3pole	IVBIK4-3	Z7.255.0327.0	10
	to 6pole	IVBIK4-6	Z7.255.0627.0	10
7. Marking stip rolls, 60 m each				
for KL 28 and terminal blocks 1-99 Distance				
between figures: 6 mm			04.007.1080.0	1
for KL 29 and terminal block 1-55 Distance				
between figures: 10.8 mm			04.007.3080.0	1

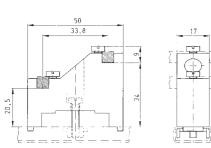


Complete sheet-steel distribution systems in accordance with IEC 61 984 and VDE 0108 can be assembled using these components. The widths of the terminals are chosen so that it is easy to identify which terminal is allocated to each individual circuit and so that they match the spacing of the miniature circuit breakers. The PE and N busbar (E-Cu 6 x 6mm) are attached to the busbar mounting brackets. The bare supply and distribution board terminals are pushed onto 6 x 6mm busbars. The PE busbar is attached to the top connection of the bracket and N busbar to the bottom one. The insulate terminals for the phase connections are pushed into the perforated rail from the top. For identifying the individual poles of the

isolated terminals, marker strips are available in rolls numbered in sequences from 1 to 99 for AC circuits and from 101 for DC circuits.

selos







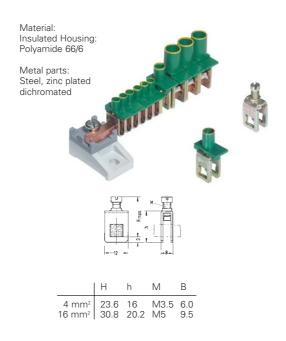


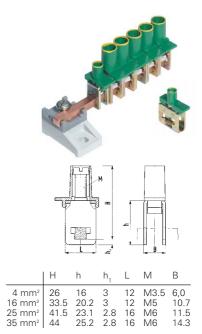
Туре	Part no. Std. pack	Туре	Part no. Std. pack	Туре	Part no. Std. pack
	74 000 0000 0 50				
	Z1.990.2030.0 50				
			05.592.1953.0 100		
	98.310.0000.0 10				
				2163	Z5.522.1923.0 100
	05.516.9510.0 100				

Modular N and PE distributor terminals

selos 105

Bus bar distribution terminals with plastic cover, screw turret, screw break point, and marking ledge.





EN 60998-2-1

Approvals	(£)	CCA/CH		(F)(\$)	CCA/CH
	Type	Part no.	Std. pack	Type	

	Туре	Part no. Std. pack	Туре	Part no. Std. pack
Distribution terminal 4 mm ²	WAK4/1	30.494.0010.0 250	WAK4/3	30.494.0110.0 250
Distribution N terminal 4 mm ² Cap: blue	WAK4/1 bl	30.494.0010.6 500	WAK4/3 bl	30.494.0110.6 500
Distribution PE terminal 4 mm ² Cap: green-yellow	WAK4/1 gr-gb	30.494.0010.7 500	WAK4/3 gr-gb	30.494.0110.7 500
Distribution terminal 16 mm ²	WAK16/1	30.494.1010.0 250		
Distribution N terminal 16 mm ² Cap: blue	WAK16/1 bl	30.494.1010.6 250		
Distribution PE terminal 16 mm ² Cap: green-yellow	WAK16/1 gr-gb	30.494.1010.7 250		
Distribution terminal 25 mm ²			WAK25/3	30.494.1110.0 100
Distribution N terminal 25 mm ² Cap: blue			WAK25/3 bl	30.494.1110.6 100
Distribution PE terminal 25 mm ² Cap: green-yellow			WAK25/3 gr-gb	30.494.1110.7 100
Distribution terminal 35 mm ²			WAK35/3	30.494.2510.0 100
Distribution N terminal 35 mm ² Cap: blue			WAK35/3 bl	30.494.2510.6 100
Distribution PE terminal 35 mm ² Cap: green-yellow			WAK35/3 gr-gb	30.494.2510.7 100
Neutral conductor rail 15x3 mm I_N =140A $L = 1 \text{ m}$				
with DIN 85 screws and lock washers				
without screws and washers				
Distributor with busbar 6 x 6 mm accord. to A802				
Accessories				
1. Rail carrier base	KS011/1ZKR	19.230.0040.0 65	KSO11/1ZKR	19.230.0040.0 65
2. Busbar 6 x 6 mm E-Cu I_N =140A L = 2 m		98.320.0000.0 1		98.320.0000.0 1
3. Busbar 6 x 6 mm E-Cu $I_N = 140A$ L = 1 m		98.325.1000.0 1		98.325.1000.0 1
4. Busbar 10 x 3 mm E-Cu I_N =140A L = 1 m				98.290.0000.0 1
Marking stip rolls, 60 m each				
for KL 28 and terminal blocks 1-99 Distance between figures: 6 mm		04.007.1080.0 1		
for KL 29 and terminal blocks 1-55		04.007.3080.0 1		04.007.1080.0 1
Distance between figures: 10.8 mm				
				04.007.3080.0 1



Bus Bar: brass Scres and lock washer: Steel, zinc plated dichromated



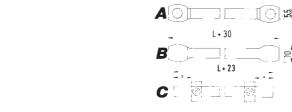


measure in mm

FKK18/2... FKK18/3... FKK18/1...



E-Cu Metal parts: steel, galv. zinc-plated and dichromated Plastic cap Polyamide 66/6



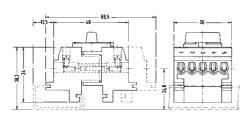
Standard neutral conductor rail screws can be used to fasten the neutral conductor rail. Cross section of threaded holes to measure \varnothing 5.3 mm.

Туре	Part no.	Std. pack	Туре	Part no.	Std. pack
FFK18/2Z	Z2.220.03	21.0 10			
FFK18/3Z	Z2.220.04	21.0 10			
FFK18/1Z	Z2.220.01	21.0 10			
FFK18/2	02.220.03	21.0 1			
FFK18/3	02.220.04	21.0 10			
FFK18/1	02.220.01	21.0 1			
			upon request		
KS011/1ZKR	19.230.00	40.0 65	KS011/1ZKR	19.230.00	40.0 65

Plug-able rail mount terminal with screw technology

selos





ST 25/5...

EN 60 998-2-1/VDE 0613 T2-1 UL-ratings CSA ratings

Approvals

Wire strip length

fine strand	ed solid	V	Α
2.5 mm ²	2.5 mm ²	250 V/4 kV/3	16
No. 22-12	AWG	300 V	20
No. 22-14	AWG	300 V	16
		5.5	mm

04.232.0051.0 5000

04.832.0051.0 5000

Metarial:

Material:

Insulating housing: fibreglass reinforced Polyamide – tracking resistant

Plug and socket contact: brass, surface treated

Clamping screws: steel, zinc-plated and dichromated Locking device screws: thermoplastic

The terminal connections have a friction lock to prevent the screws from becoming loose as well as wire protection.

This plug-in connector is available with or without locking levers which operate automatically when connection is made. The connector can be separated either using a screwdriver held in a verticle or horizontal position or by hand.

When operating the connector, the interlocking device acts as a control curve, which separates the two halves of the connector. The individual parts of the connector are identified by embossed consecutive numbers (1 to 5). Each 5 pole block can be identified using a marking plug.

Plug-able connector			ST 25/5 B	93.031.2055.0	50
Rail mount socket					
Plug-able connector w/locking lo	ever		ST 25/5 SV	93.032.2455.0	50
Plug-able connector without loc	king lever		ST 25/5 S	93.032.2055.0	50
Plug-able connector and rail mo	unt socket				
Accessories					
1. Mounting rail TS 35, DIN rail 7.	5mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail TS 35, DIN rail 1.5	5mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1
Mounting rail TS 32	G rail	L = 2 m	9006 EN 60715 G-32	98.190.0000.0	1
2. End clamp with U-foot	10	mm wide	WE 1/U	Z5.523.5753.0	100
End clamp TS 35, with screw	8	mm wide	9708/2 S 35	Z5.522.8553.0	100
End clamp TS 32, with screw	7.5	mm wide	9708	Z5.522.7053.0	100
3. Jumper comb for 5 poles (E-Cu)		VB 11/2	07.250.2527.0	50
Mounting bracket for C rail	M	4 and M6			
Mounting base for DIN rail		√/3 thread			
	N	√14 thread			
	1	√15 thread			
	N	√16 thread			
Tear-off coding pieces with 10 cod	ling pieces	each			

BZ 12

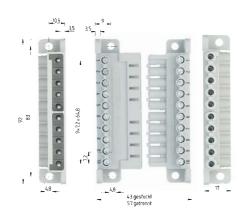
BZ 12 B

Marking peg (white Polyamide) unmarked

For marking accessories see pages 178-183

Marking peg (white Polyamide) marked

Compact plug-able connector with coding capability selos



Mounting options: dis-connected Panel mount or rail mount

fine stranded solid 2.5 mm² 400 V/6 kV/3 16 No. 22-12 AWG 300 V 20 No. 22-14 AWG 300 V 16 5.5 mm

91 ③ ① ⑤ ⊕ VDE-PB

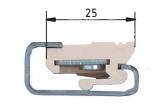
Туре	Part no. Std	. pack	
ST 28/10 B	93.001.1055.0	10	
ST 28/10 S	93.002.1055.0	10	
ST 28/10 BS	93.003.1055.0	10	
35 x 27 x 7,5 EN 60715	98.300.0000.0	1	1
35 x 24 x 15 EN 60715	98.360.0000.0	1	
			1
WE 1/U	Z5.523.5753.0	100	1
, -	Z5.522.8553.0		1
	20.022.0000.0		1
			1
			+
			-
			+
			\exists
			4
			_
			1
			1
			+
			-
	05 504 5450 0	100	+
	05.594.5153.0	100	-
			_
			4

Coding diagram for Wieland compact connector type ST 28/10

The plug and socket sections of the compact plug connector each have 8 slots for the coding bar. To do this, a coding piece is inserted in the socket section at the points marked with "B". Likewise, a coding piece is inserted in the plug section at the points marked "S". The best way to code the parts is to separate the plug and socket sections and push the coding bars into the coding slots now facing each other as shown in the diagram.

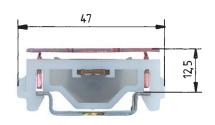
Then reconnect the socket sections.

The coding bars are supplied in batched of 10 which are connected together to facilitate insertion



Width 11.5 mm

TS M 4/M 6-32



Width 12 mm

TS M ... S 35

Coding:

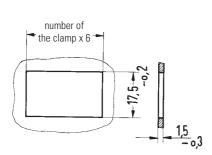
S	В	В
S	B	В
S	B	В
S	B	В
S	B	В
S	B	S
S	S	В
В	<u>이</u>	
В	S	В
В		В В
	S	
В	S	В
В	S	В
В		S
В	В	S
1		

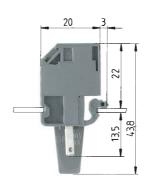
BBBS 1. configuration В BBSB 2. configuration В BSBB 3. configuration В SBBB 4. configuration S BBBB 5. configuration В BBBB 6. configuration В BBBB 7. configuration В BBBS 8. configuration В BBSB 9. configuration B BSBB 10. configuration SBBB 11. configuration S BBBB 12. configuration В BBBB 13. configuration BBBS 14. configuration etc.

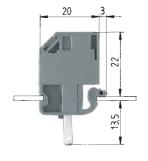
TS M 4/M 6-32	69.332.0000.0	100	
	69.332.0000.0 69.335.0253.0		
TS M 3 S 35		100	
TS M 3 S 35 TS M 4 S 35	69.335.0253.0	100 100	
TS M 3 S 35 TS M 4 S 35 TS M 5 S 35	69.335.0253.0 69.335.0453.0	100 100 100	
TS M 3 S 35 TS M 4 S 35 TS M 5 S 35	69.335.0253.0 69.335.0453.0 69.335.0553.0	100 100 100	
TS M 3 S 35 TS M 4 S 35 TS M 5 S 35	69.335.0253.0 69.335.0453.0 69.335.0553.0	100 100 100	
TS M 4/M 6-32 TS M 3 S 35 TS M 4 S 35 TS M 5 S 35 TS M 6 S 35	69.335.0253.0 69.335.0453.0 69.335.0553.0	100 100 100	

Modular panel mount terminals with solder/push-on connectors

selos







Solder tab connector 2.8 x 0.8 mm for push-on connector B 2.8 x 1 accord. to DIN 46247 BI. 1

Solder tab connector 2.8 x 0.8 mm for push-on connector B 2.8 x 1 accord. to DIN 46247 Bl. 1

EN 60 947-7-1/DIN VDE 0611 T1 UL-ratings CSA ratings

Width Wire strip length Approvals

fine stranded solid V A
0.5 - 2.5 mm² 0.5 - 2.5 mm² 400 V/4 kV/3 10
No. 22-12 AWG 150 V 20
No. 22-14 AWG 300 V 10
6 mm 8 mm

fine stranded solid V A 0.5 - 2.5 mm² 0.5 - 2.5 mm² 400 V/4 kV/3 10 No. 22-12 AWG 150 V 20

m 6 mm 8 mm **%**

.pp. 0 1 4.0		72			~		
		Туре	Part no.	Std. pack	Type	Part no.	Std. pack
Panel mount terminal		9290 S	59.900.25				
Panel mount terminal	without partition				9290 L	59.900.20	52.0 200
- Color: blue -	for EEx i installations				9290 L BLAU	59.900.20	
For marking systems see pag	nes 178-183 and 250-251						

selos

IDC DIN rail terminal blocks, type WKC taris

IDC connection for:

Standard DIN rail terminal blocks

Duo terminal blocks

Multi-tier terminal blocks

Disconnect blocks

taris connects copper wires easily, fast and safely

taris for TS 35

- no wire stripping, no ferrules
- no special tools a screwdriver is all you need
- 60 % time savings = reduced costs
- low packing density (5 mm wide)
- optical control of the switching state
- cross sections up to 1.0 mm² and 2.5 mm²

All Wieland Components which require $\mathbf{C} \in \mathbf{C}$ general certification are $\mathbf{C} \in \mathbf{C}$ certified, and identified with the $\mathbf{C} \in \mathbf{C}$ logo.

IDC DIN rail terminal blocks, type WKC

taris

1.0 mm²

2.5 mm²







Neutral feed-through blocks



Ground blocks

Feed-through blocks





Standard DIN rail terminal blocks

1.0 mm²



2.5 mm²







Hybrid DIN rail terminal blocks

Double-tier blocks

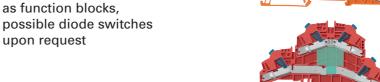
1.0 mm²



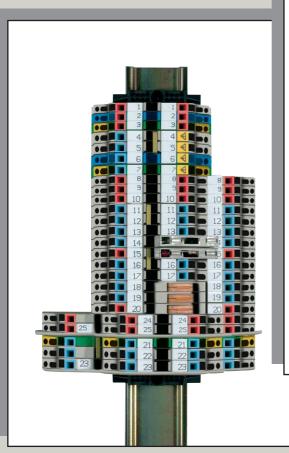
2.5 mm²







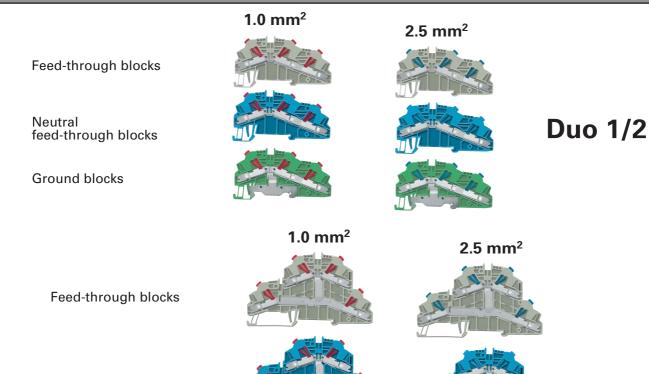
Double-tier blocks



Feed through blocks

Ground blocks

taris



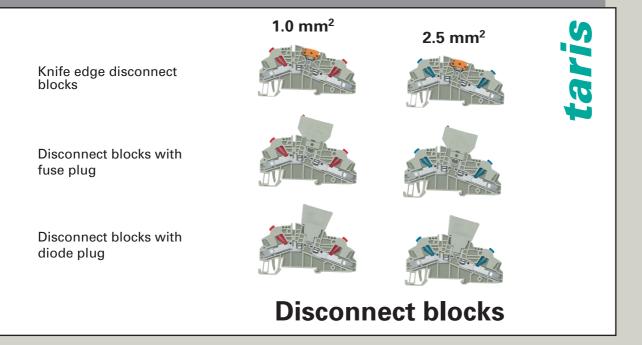
Duo 2/2

Ground blocks

feed-through blocks

Neutral

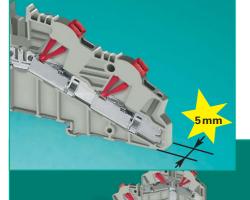
Duo DIN rail terminal blocks



IDC DIN rail terminal blocks type WKC



10 20 30 40 50 60 70 80 90 100 % traditional wiring wiring with taris



taris technology

□ Wieland's *taris* (WKC) Series represents the industry's most comprehensive line of advanced IDC (insulation displacement contact) technology terminal blocks. The superior design of the *taris* IDC contact system reduces wiring installation time and labor, expecially in high volume wiring applications. *taris* IDC terminal blocks are suitable for applications in automated equipment and machine tools, packaging and material handling machinery, railway/mass transit sytems, petrochemical, and any applications requiring high-volume interconnects for low-voltage control and signal cicuitry where labor cost reduction and ease of assembly is a goal.

taris features

- ☐ The industry's narrowest blocks at just 5 mm and 6 mm wide
- Operates with a standard screwdriver
- Dual jumpering slots
- Built-In test points
- ☐ Contact design moves the clamp to engage the wire
- ☐ Top-entry system puts the wire entry and the screwdriver access in the same plane
- ☐ Tin-plated copper alloy contact material
- UL 94-VO non-flammability rating on the polyamide 66/6 insulation material

benefits

- → uses less space in the cabinet
- → No special tools required
- → Flexibility in commoning potentials of adjacent blocks
- → Provide true measurement reading without removing wires
- → Ensures secure, gas-tight and vibrationresistant connection even when the wire length is maxed out
- → Easy circuit identification and troubleshooting
- → Corrosion resistant connection
- → Increased safety
- → Easy installation even in confined spaces

WKC series terminal block versions

- ☐ Feed-through
- ☐ Ground
- Disconnect
- Fuse
- ☐ Arc suppression
- □ Reverse polarity protection
- ☐ 1-in, 2-out feed-through
- ☐ 1-in, 2-out ground
- □ Double-tier feed-through
- Double-tier ground
- Voltage indication

☐ *taris* is designed for long-term use under demanding conditions





- ☐ All *taris* IDC DIN rail terminal blocks feature built in test points so that measuring values can be taken without removing the wire.
- ☐ Entry guides on each side of the blocks permit measuring with standard 2.3 mm test probes and test plugs for easy maintenance and trouble-shooting

taris material

☐ taris utilizes special alloys and surface treatments to provide low contact resistance and a high degree of protection from corrosion. taris material composition makes it suitable for use under extreme conditions and guarantees a long-term stable connection.

Cross connection

- ☐ IVB WKF insulated cross connectors offer complete protection from shock-hazard per EN 60352-3/4 and EN 60947-7-1.
- Partition plates between neighboring cross connections are not necessary to meet creepage requirements.
- □ IVB WKF cross connecotrs bear the same rated current as the terminal block

taris metal compositions

- discontinuous clamping body and current bar constructed of tin-plated copper
- ground foot is contructed of tin-plated brass

taris insulating housing compositions

- ☐ housings are constructed of polyamide 6.6 for its excellent mechanical, electrical and chemical properties
- □ UL 94-VO non-flammability rating, the best in the industry

(see also section facts & DATA)

Marking facilities

- ☐ single marking tags
- Snap=On marking strips
- □ Tear-off marking strips!
- Custom marking options

Our wieplan software helps to plan your DIN rail terminal block assemblies (see page 10/11).

□ taris offers a Sanp-On cover with the ADC warning symbol to prevent tampering of blocks which remain live after the system is switched off. A tool is required to remoce the cover for added safety.

ADC warning cover

DQS certificates for all products

- Quality standard as per DIN ISO 9001 in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries.
- BSI Certificate. Great Britain
- SQS Certificate, Switzerland
- Aib-Vincotte Certificate, Belgium
- ÖQS Certificate, Austria

Note

The information regarding crosssectional areas and connection types pertains to wires without ferrules. Ferrules are not neccessary for secure connection.

The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, Wieland offers a large selection of appropiate accessories.

A detailed description of technical data, the standards requirements, and the application conditions can be found in catalog section facts & DATA.

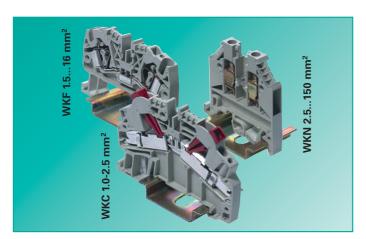






60

Concept Taris



taris

With the addition of *taris* IDC terminal blocks, Wieland now offers the broadest range of screw clamp, spring clamp, and IDC technology, to provide the best possible connection for any control cabinet application. At just 5mm and 6mm wide, the *taris* series includes the industry's narrowest IDC block capable of accepting 14 AWG. Like other Wieland products, *taris* is designed with superior function and quality in mind, thereby offering the most features and benefits of any terminal block on the market. To lower production costs or reduce installation and maintenance time, Wieland's *taris* WKC series terminal blocks offer the connection technology you need.

The 2-second connection

Terminating copper wires is easy, fast and safe with taris.

- Easy Cut the wire to length and insert into the wire entry guide.
 Move the clamping body into the wire by inserting and levering a standard flat screwdriver
- Fast There is no prep time with *taris* no wire stripping and no ferruling. *taris* reduces installation time by as much as 60%.
- Safe the wire does not move during the operation no risk of losing the wires. No live parts are able to be touched due to the design of the insulating housing. Jumpers are isulated as well.

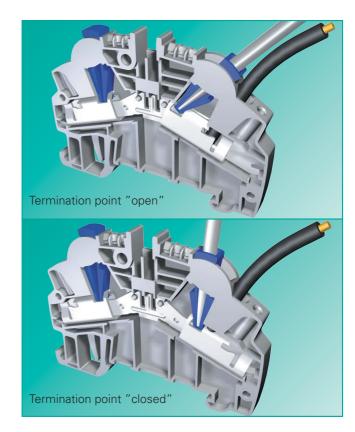
taris makes disconnecting wires just as easy, fast and safe.

- It is possible to re-use spliced wires with *taris* by cutting the end of the wire before each new/re-termination
- After connecting a larger wire, a smaller diameter wire can be connected to the same contact.

A color-coded screwdriver guide indicates the rated cross section of the terminal block:

• WKC 1 30-18 AWG red indicator

• WKC 2.5 18-14 AWG blue indicator





Wire specifications

taris terminates solid or fine stranded copper wires with AWG between 24 and 14 with two size of terminal blocks.

WKC ...1 : copper wire between AWG 24-18; 5mm wide terminal block WKC ...2,5: copper wire between AWG 18-14; 6mm wide terminal block

Standard control wire with PVC- and PE- insulation can be terminated

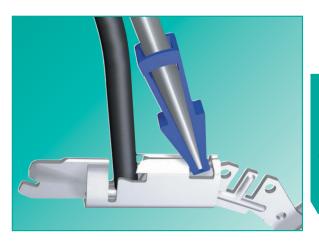
Wire with other insulation material can also be terminated, please consult Wieland for recommendation

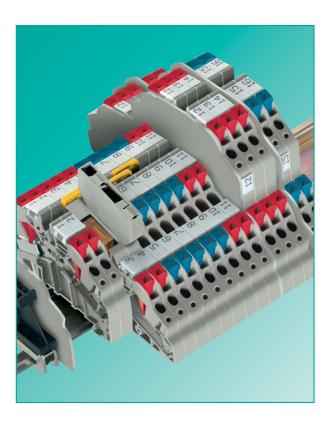
For fine stranded copper wires, the wire diameter must be a minimum of 0.2mm. the composition of conductors is based on DIN VDE 0295 K1, 1-5.

taris

Wire connection

Insert the wire into the clamping body through the wire entry guide. Insert a flat screwdriver into the colored screwdriver guide and push the screwdriver forward to move the clamping body into the wire. This action cuts into the insulation of the wire at two defined points with proper contact and no damage to the copper wire. The result is a gas tight, vibration and corrosion resistant contact.





The taris series

For variuos application requirements, *taris* offers a variety of terminal blocks in two different ranges of AWG cross sections. Both cross sections have the same contour outside for a clean symmetrical look along the DIN rail.

Standard terminals

- DIN rail terminal blocks as feed-through and ground blocks with one termination point on each side of the terminal block
- DIN rail terminal blocks with two jumpering slots provide flexibility in commoning potentials
- DIN rail terminal blocks with marking facilities on every termination point
- DIN rail terminal blocks with test points for test probes on every termination point

<u>Duo terminals</u>

- Duo DIN rail terminal blocks with more than two termination points for one potential
- Duo DIN rail terminal blocks as feed-through and ground blocks in D 1/2 and D2/2 version
- Duo DIN rail terminal blocks D 1/2 can be jumpered with the standard DIN rail terminal blocks

<u>Disconnect terminals</u>

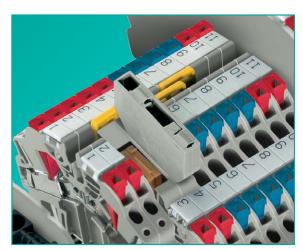
- as knife edge disconnect blocks or disconnect blocks for diode or fuse plugs
- can be jumpered with standard or Duo 1/2 DIN rail terminals.

Double-deck rail terminals

- double-tier blocks with same contour as Duo 2/2 blocks.
- double-tier blocks as function block for diode switchings

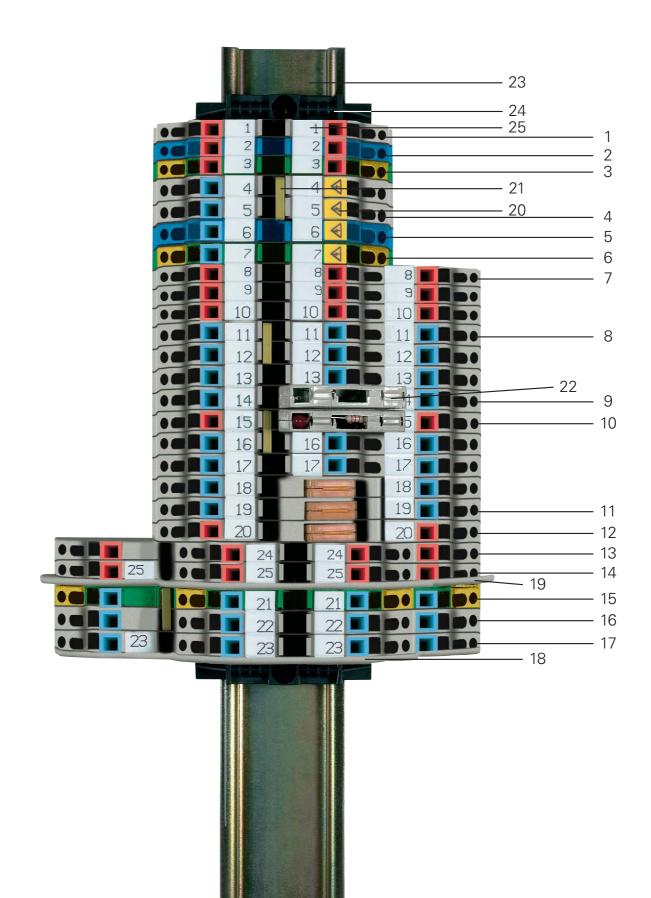
Accessories

- taris utilizes Wieland's standard marking system
- *taris* utilizes the same insulated cross connectors as Wieland's WKF series spring clamp connection technology for potential commoning.
- For more complex connections, *taris* uses the disconnect block with fuse plug SIST or diode plug DIST for WK or WKF series.
- For visual separation of termainl block groups, *taris* offers partitions and end plates, which also maintain shock-hazard protection.
- taris features built-in test points which accommodate Wieland test plugs or test probes from standaed meters for way maintenance and trouble-shooting.



IDC DIN rail terminal blocks,





taris sample rail

Pos.	Description	Туре	Part no.
1	Feed-through block	WKC 1/35	56.301.0053.0
2	Feed-through block, blue	WKC 1/35 BLAU	56.301.0053.6
3	Ground block	WKC 1 SL/35	56.301.9053.0
4	Feed-through block	WKC 2,5/35	56.303.0053.0
5	Feed-through block, blue	WKC 2,5/35 BLAU	56.303.0053.6
6	Ground block	WKC 2,5 SL/35	56.303.9053.0
7	Duo feed-through block	WKC 1 D1/2/35	56.301.5053.0
8	Duo feed-through block	WKC 2,5 D1/2/35	56.303.5053.0
9	Disconnect block	WKC 2,5 TKG/35	56.303.4053.0
10	Disconnect block	WKC 1 TKG/35	56.301.4053.0
11	Knife edge disconnect block	WKC 2,5 TKM/35	56.303.2053.0
12	Knife edge disconnect block	WKC 1 TKM/35	56.301.2053.0
13	Duo feed-through block	WKC 1 D2/2/35	56.301.5153.0
14	Double-tier block	WKC 1 E/35	56.301.7053.0
15	Duo-ground block	WKC 2,5 D2/2/SL/35	56.303.9153.0
16	Duo-feed-through block	WKC 2,5 D2/2/35	56.303.5153.0
17	Double-tier block	WKC 2,5 E/35	56.303.7053.0
18	End plate	APC 1-2,5 D2./E.	07.312.5453.0
19	Partition plate	TWC 1-2,5 D2./E.	07.312.5553.0
20	Cover with warning symbol	ADC 2,5 GELB	04.344.0353.8
21	Jumper bar, insulated	IVB WKF 4-2	Z7.261.1227.0
22	Fuse plug (G 5x20)	SIST	Z1.299.4053.0
23	Mounting rail	35x27x7,5 EN 60715	98.300.0000.0

9708/2 S35

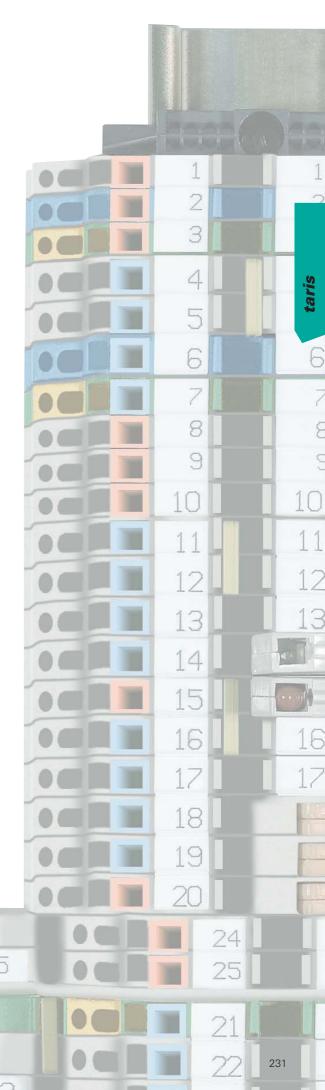
9705 A/5/10 B

Z5.522.8553.0

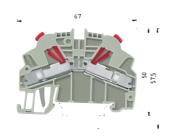
04.842.5053.0

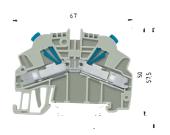
24 End clamp

25 Marking strips



IDC feed-through blocks, type WKC





WKC 1/35

WKC 2.5/35

EN 60 947-7-1
UL ratings
CSA ratings
Width
Rated cross section
Approvals

fine stranded solid V A

0.2 - 1 mm² 0.2 - 1 mm² 800 V/8 kV/3 13.5

No. 30-18 AWG 600 V 13

No. 24-18 AWG 600 V 13

5 mm 1 mm²

fine stranded solid V A

1 - 2.5 mm² 1 - 2.5 mm² 800 V/8 kV/3 24

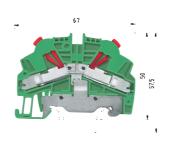
No. 18-14 AWG 600 V 22

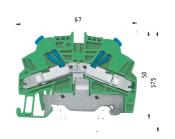
No. 16-14 AWG 600 V 20

6 mm 2.5 mm²

11000	0.000 0000.0	•		 0 111111		2.0
pprovals		KEMA 71 * 1 * *		KEMA 71 *@ **		
		Туре	Part no. Std. pack	Type	Part no. Std.	pack
Feed-through block	Color: gray	WKC 1/35	56.301.0053.0 100	WKC 2,5/35	56.303.0053.0	100
Feed-through block	Color: blue	WKC 1/35 BLAU	56.301.0053.6 100	WKC 2,5/35 BLAU	56.303.0053.6	100
Accessories						
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0 100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray	APC 1-2,5	07.312.5053.0 10	APC 1-2,5	07.312.5053.0	10
·	Color: blue	APC 1-2,5 BLAU	07.312.5053.6 10	APC 1-2,5 BLAU	07.312.5053.6	10
	Color: green		-		-	
4. Partition plate	Color: gray	TWC 1-2,5	07.312.5153.0 10	TWC 1-2,5	07.312.5153.0	10
	Color: blue	TWC 1-2,5 BLAU	07.312.5153.6 10	TWC 1-2,5 BLAU	07.312.5153.6	10
5. Jumper bar,	2pole	IVB WKF 2,5-2	Z7.280.6227.0 10	IVB WKF 4-2	Z7.261.1227.0	10
insulated	3pole	IVB WKF 2,5-3	Z7.280.6327.0 10	IVB WKF 4-3	Z7.261.1327.0	10
	4pole	IVB WKF 2,5-4	Z7.280.6427.0 10	IVB WKF 4-4	Z7.261.1427.0	10
	5pole	IVB WKF 2,5-5	Z7.280.6527.0 10	IVB WKF 4-5	Z7.261.1527.0	10
	6pole	IVB WKF 2,5-6	Z7.280.6627.0 10	IVB WKF 4-6	Z7.261.1627.0	10
	7pole	IVB WKF 2,5-7	Z7.280.6727.0 20	IVB WKF 4-7	Z7.261.1727.0	20
	8pole	IVB WKF 2,5-8	Z7.280.6827.0 20	IVB WKF 4-8	Z7.261.1827.0	20
	9pole	IVB WKF 2,5-9	Z7.280.6927.0 20	IVB WKF 4-9	Z7.261.1927.0	20
	10pole*	IVB WKF 2,5-10	Z7.280.7027.0 20	IVB WKF 4-10	Z7.261.2027.0	20
6. Cover w. warning symbol over 4 bl	ocks	ADC 1 GELB	04.344.0153.8 10	ADC 2,5 GELB	04.344.0353.8	10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0 10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0 5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
*Available up to 20 pole		* CL I, ZN1, AExe II		* CL I, ZN1, AExe II		
Marking accessories also see page 17	8-179 and 250-251	**CL I, ZN1, Exe II		**CL I, ZN1, Exe II		

IDC ground blocks, type WKC





WKC 1 SL/35

WKC 2,5 SL/35 fine stranded solid

EN 60 947-7-2 **UL** ratings CSA ratings Width

Rated cross section

fine stranded solid $0.2 - 1 \text{ mm}^2$ $0.2 - 1 \text{ mm}^2$ 800 V/8 kV/3 13.5 No. 30-18 AWG 600 V No. 24-18 AWG 5 mm $1 \, \text{mm}^2$

 $1 - 2.5 \text{ mm}^2$ $1 - 2.5 \text{ mm}^2$ 800 V/8 kV/3 No. 18-14 AWG 600 V No. 16-14 AWG 6 mm

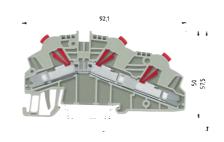
2.5 mm²

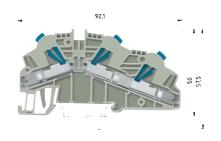
Α

24

viatii	ca cross section	5 111111		1 1111111	0 111111		2.0 1111
pprovals		KEMA 71 * 1 * * *			KEMA 91 * 6 * *		
		Туре	Part no. Std. pack		Туре	Part no. Std.	pack
Ground block	Color: green/yellow	WKC 1 SL/35	56.301.9053.0 100		WKC 2,5 SL/35	56.303.9053.0	100
A							
Accessories 1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0 1		35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 7.5 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0 1		35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35	8 mm wide	9708/2 \$ 35	Z5.522.8553.0 100		9708/2 S 35	Z5.522.8553.0	
End clamp for TS 35, screwless		WEF 1/35	Z5.523.9353.0 100		WEF 1/35	Z5.523.9353.0	
3. End plate	Color: gray	VVEI 1700	20.020.0000.0 100		VVE1 1700	20.020.0000.0	100
p1000	Color: blue						
	Color: green	APC 1-2,5 GRÜN	07.312.5053.7 10		APC 1-2.5 GRÜN	07.312.5053.7	10
4. Partition plate	Color: gray				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	Color: blue						
5. Jumper bar,	2pole						
insulated	3pole						
	4pole						
	5pole						
	6pole						
	7pole						
	8pole						
	9pole						
	10pole						
6. Cover w. warning symbol over 4	4 blocks	ADC 1 GELB	04.344.0153.8 10		ADC 2,5 GELB	04.344.0353.8	10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0 10		WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, unisoliert		DIN 5264 B 0,6 x 3,5	06.502.4000.0 5		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
		* CL I, ZN1, AExe II			* CL I, ZN1, AExe II		
		**CL I, ZN1, Exe II			**CL I, ZN1, Exe II		

IDC duo feed-through blocks, type WKC





WKC 1 D1/2/35

WKC 2.5 D1/2/35

EN 60 947-7-1 **UL** ratings CSA ratings Width Approvals

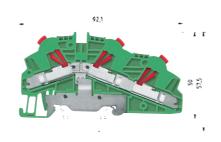
Rated cross section

fine stranded solid $0.2 - 1 \text{ mm}^2$ $0.2 - 1 \text{ mm}^2$ 800 V/8 kV/3 13.5 No. 30-18 AWG 600 V 13 No. 24-18 AWG 600 V 13 5 mm $1 \, \text{mm}^2$ KEMA **71** * **6** * *

fine stranded solid $1 - 2.5 \text{ mm}^2$ 1 – 2.5 mm² 800 V/8 kV/3 24 22 No. 18-14 AWG 600 V 600 V 20 No. 16-14 AWG 2.5 mm² 6 mm KEMA **91** * **()** * *

		_			_		
		Туре	Part no. Sto	I. pack	Туре	Part no. Std.	pack
Duo feed-through block	Color: gray	WKC 1 D1/2/35	56.301.5053.0	50	WKC 2,5 D1/2/35	56.303.5053.0	50
Duo feed-through block	Color: blue	WKC 1 D1/2/35 BLAU	56.301.5053.6	50	WKC 2,5 D1/2/35 BLAU	56.303.5053.6	50
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray	APC 1-2,5 D1./TK.	07.312.5253.0	10	APC 1-2,5 D1./TK.	07.312.5253.0	10
	Color: blue	APC 1-2,5 D1./TK.BLAU	07.312.5253.6	10	APC 1-2,5 D1./TK.BLAU	07.312.5253.6	10
	Color: green						
4. Partition plate	Color: gray	TWC 1-2,5 D1.	07.312.5353.0	10	TWC 1-2,5 D1.	07.312.5353.0	10
	Color: blue	TWC 1-2,5 D1. BLAU	07.312.5353.6	10	TWC 1-2,5 D1. BLAU	07.312.5353.6	10
5. Jumper bar,	2pole	IVB WKF 2,5-2	Z7.280.6227.0	10	IVB WKF 4-2	Z7.261.1227.0	10
insulated	3pole	IVB WKF 2,5-3	Z7.280.6327.0	10	IVB WKF 4-3	Z7.261.1327.0	10
	4pole	IVB WKF 2,5-4	Z7.280.6427.0	10	IVB WKF 4-4	Z7.261.1427.0	10
	5pole	IVB WKF 2,5-5	Z7.280.6527.0	10	IVB WKF 4-5	Z7.261.1527.0	10
	6pole	IVB WKF 2,5-6	Z7.280.6627.0	10	IVB WKF 4-6	Z7.261.1627.0	10
	7pole	IVB WKF 2,5-7	Z7.280.6727.0	20	IVB WKF 4-7	Z7.261.1727.0	20
	8pole	IVB WKF 2,5-8	Z7.280.6827.0	20	IVB WKF 4-8	Z7.261.1827.0	20
	9pole	IVB WKF 2,5-9	Z7.280.6927.0	20	IVB WKF 4-9	Z7.261.1927.0	20
	10pole	IVB WKF 2,5-10	Z7.280.7027.0	20	IVB WKF 4-10	Z7.261.2027.0	20
6. Cover w. warning symbol over 4 bloc	:ks	ADC 1 GELB	04.344.0153.8	10	ADC 2,5 GELB	04.344.0353.8	10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
10. Marking accessories		also see page 250/25	51		9705 A/5/10	04.242.5053.0	25
		* CL I, ZN1, AExe II			* CL I, ZN1, AExe II		
		**CL I, ZN1, Exe II			**CL I, ZN1, Exe II		

IDC duo ground blocks, type WKC





WKC 1 D1/2/SL/35

KEMA **71** * **6** * *

WKC 2.5 D1/2/SL/35

EN 60 947-7-2 **UL** ratings CSA ratings Width Approvals

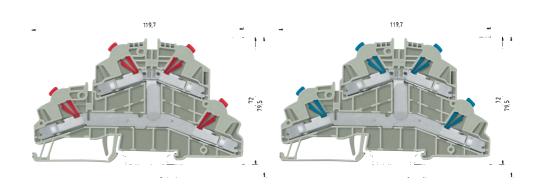
Rated cross section

fine stranded solid $0.2 - 1 \text{ mm}^2$ $0.2 - 1 \text{ mm}^2$ 800 V/8 kV/3 13.5 No. 30-18 AWG 600 V 13 No. 24-18 AWG 5 mm $1 \, \text{mm}^2$

fine stranded solid Α $1 - 2.5 \text{ mm}^2$ $1 - 2.5 \text{ mm}^2$ 800 V/8 kV/3 24 No. 18-14 AWG 600 V 22 No. 16-14 AWG 6 mm 2.5 mm² KEMA **%** * **©** * *

1-1					/L		
		Туре	Part no.	Std. pack	Туре	Part no. Sto	l. pack
Duo ground block	Color: green/yellow	WKC 1 D1/2/SL/35	56.301.9353.	0 50	WKC 2,5 D1/2/SL/35	56.303.9353.0	50
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.	0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.	0 1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.	0 100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.	0 100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray						
	Color: blue						
	Color: green	APC 1-2,5 D1./TK.GRÜN	07.312.5253.	7 10	APC 1-2,5 D1./TK.GRÜN	07.312.5253.7	10
4. Partition plate	Color: gray						
	Color: blue						
5. Jumper bar,	2pole						
insulated	3pole						
	4pole						
	5pole						
	6pole						
	7pole						
	8pole						
	9pole						
	10pole						
6. Cover w. warning symbol over 4	blocks	ADC 1 GELB	04.344.0153.	8 10	ADC 2,5 GELB	04.344.0353.8	10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.	0 10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.	0 5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
10. Marking accessories		also see page 250/25	51		9705 A/5/10	04.242.5053.0	25
-							
		* CL I, ZN1, AExe II			* CL I, ZN1, AExe II		
		**CL I, ZN1, Exe II			**CL I, ZN1, Exe II		

IDC duo feed-through blocks, type WKC taris



WKC 1 D2/2/35

WKC 2.5 D2/2/35

EN 60 947-7-1 UL ratings CSA ratings Width Approvals

Rated cross section

fine stranded solid V A

0.2 - 1 mm² 0.2 - 1 mm² 500 V/6 kV/3 13.5

No. 30-18 AWG 600 V 13

No. 24-18 AWG 300/600 V* 13

5 mm 1 mm²

fine stranded solid V A

1 - 2.5 mm² 1 - 2.5 mm² 500 V/6 kV/3 24

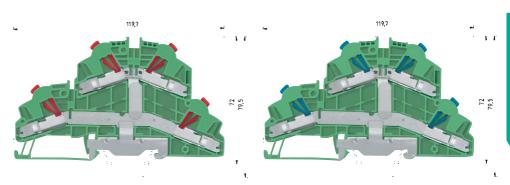
No. 18-14 AWG 600 V 22

No. 16-14 AWG 360/600 V* 20

6 mm 2.5 mm²

		Type	Part no. Std	. pack	Туре	Part no. Sto	l. pack
Duo feed-through block	Color: gray	WKC 1 D2/2/35	56.301.5153.0	50	WKC 2,5 D2/2/35	56.303.5153.0	50
Duo feed-through block	Color: blue	WKC 1 D2/2/35 BLAU	56.301.5153.6	50	WKC 2,5 D2/2/35 BLAU	56.303.5153.6	50
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray	APC 1-2,5 D2./E.	07.312.5453.0	10	APC 1-2,5 D2./E.	07.312.5453.0	10
	Color: blue	APC 1-2,5 D2./E. BLAU	07.312.5453.6	10	APC 1-2,5 D2./E. BLAU	07.312.5453.6	10
	Color: green						
4. Partition plate	Color: gray	TWC 1-2,5 D2./E.	07.312.5553.0	10	TWC 1-2,5 D2./E.	07.312.5553.0	10
	Color: blue	TWC 1-2,5 D2./E. BLAU	07.312.5553.6	10	TWC 1-2,5 D2./E. BLAU	07.312.5553.6	10
5. Cross connector,	2pole	IVB WKF 2,5-2	Z7.280.6227.0	10	IVB WKF 4-2	Z7.261.1227.0	10
insulated	3pole	IVB WKF 2,5-3	Z7.280.6327.0	10	IVB WKF 4-3	Z7.261.1327.0	10
	4pole	IVB WKF 2,5-4	Z7.280.6427.0	10	IVB WKF 4-4	Z7.261.1427.0	10
	5pole	IVB WKF 2,5-5	Z7.280.6527.0	10	IVB WKF 4-5	Z7.261.1527.0	10
	6pole	IVB WKF 2,5-6	Z7.280.6627.0	10	IVB WKF 4-6	Z7.261.1627.0	10
	7pole	IVB WKF 2,5-7	Z7.280.6727.0	20	IVB WKF 4-7	Z7.261.1727.0	20
	8pole	IVB WKF 2,5-8	Z7.280.6827.0	20	IVB WKF 4-8	Z7.261.1827.0	20
	9pole	IVB WKF 2,5-9	Z7.280.6927.0	20	IVB WKF 4-9	Z7.261.1927.0	20
	10pole	IVB WKF 2,5-10	Z7.280.7027.0	20	IVB WKF 4-10	Z7.261.2027.0	20
6. Cover w. warning symbol over 4 bloo	cks	ADC 1 GELB	04.344.0153.8	10	ADC 2,5 GELB	04.344.0353.8	10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
		*300 V for use group) C		*300 V for use group) C	
		600 V for use group	D, E		*600 V for use group	D, E	
		* CL I, ZN1, AExe II			* CL I, ZN1, AExe II		
Marking accessories also see page 178-	-179 and 250-251	**CL I, ZN1, Exe II			**CL I, ZN1, Exe II		

IDC duo ground blocks, type WKC



WKC 1 D2/2/SL/35

KEMA **71** * **6** * *

WKC 2,5 D2/2/SL/35

EN 60 947-7-2 UL ratings CSA ratings Width Approvals

Rated cross section

fine stranded solid V A

0.2 - 1 mm² 0.2 - 1 mm² 500 V/6 kV/3 13.5

No. 30-18 AWG 600 V

No. 24-18 AWG
5 mm 1 mm²

fine stranded solid V A

1 – 2.5 mm² 1 – 2.5 mm² 500 V/6 kV/3 24

No. 18-14 AWG

No. 16-14 AWG

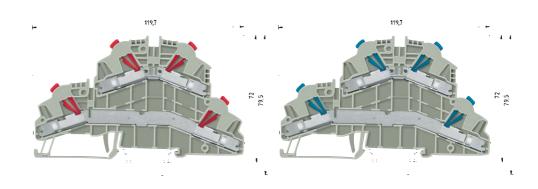
6 mm

2.5 mm²

2.5 mm²

.pp. 0 . a. 0									
		Туре	Part no. St	d. pack	Туре	Part no. Std	. pack		
Duo ground block	Color: green/yellow	WKC 1 D2/2/SL/35	56.301.9153.0	50	WKC 2,5 D2/2/SL/35	56.303.9153.0	50		
Accessories									
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1		
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1		
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100		
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100		
3. End plate	Color: gray								
	Color: blue								
	Color: green	APC 1-2,5 D2./E. GRÜN	07.312.5453.7	10	APC 1-2,5 D2./E. GRÜN	07.312.5453.7	10		
4. Partition plate	Color: gray								
	Color: blue								
5. Jumper bar,	2pole								
insulated	3pole								
	4pole								
	5pole								
	6pole								
	7pole								
	8pole								
	9pole								
	10pole								
6. Cover w. warning symbol over 4	l blocks	ADC 1 GELB	04.344.0153.8	10	ADC 2,5 GELB	04.344.0353.8	10		
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10		
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5		
-									
		* CL I, ZN1, AExe II			* CL I, ZN1, AExe II				
		**CL I, ZN1, Exe II			**CL I, ZN1, Exe II				

IDC double-tier blocks, type WKC



WKC 1 E/35

WKC 2.5 E/35

EN 60 947-7-1 UL ratings CSA ratings Width Approvals

Rated cross section

fine stranded solid V A

0.2 - 1 mm² 0.2 - 1 mm² 500 V/6 kV/3 13.5

No. 30-18 AWG 600 V 13

No. 24-18 AWG 300/600 V** 13

5 mm 1 mm²

fine stranded solid V A

1 - 2.5 mm² 1 - 2.5 mm² 500 V/6 kV/3 24

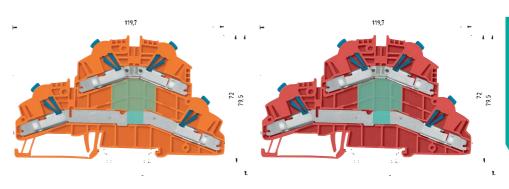
No. 18-14 AWG 600 V 22

No. 16-14 AWG 300/600 V** 20

6 mm 2.5 mm²

		Туре	Part no. Std	. pack	Туре	Part no. Sto	d. pack
Double-tier block	Color: gray	WKC 1 E/35	56.301.7053.0	50	WKC 2,5 E/35	56.303.7053.0	50
Double-tier block	Color: blue	WKC 1 E/35	56.301.7053.6		WKC 2,5 E/35	56.303.7053.6	
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color: gray	APC 1-2,5 D2./E.	07.312.5453.0	10	APC 1-2,5 D2./E.	07.312.5453.0	10
	Color: blue	APC 1-2,5 D2./E. BLAU	07.312.5453.6	10	APC 1-2,5 D2./E. BLAU	07.312.5453.6	10
	Color: green						
4. Partition plate	Color: gray	TWC 1-2,5 D2./E.	07.312.5553.0	10	TWC 1-2,5 D2./E.	07.312.5553.0	10
	Color: blue	TWC 1-2,5 D2./E. BLAU	07.312.5553.6	10	TWC 1-2,5 D2./E. BLAU	07.312.5553.6	10
5. Jumper bar,	2pole	IVB WKF 2,5-2	Z7.280.6227.0	10	IVB WKF 4-2	Z7.261.1227.0	10
insulated	3pole	IVB WKF 2,5-3	Z7.280.6327.0	10	IVB WKF 4-3	Z7.261.1327.0	10
	4pole	IVB WKF 2,5-4	Z7.280.6427.0	10	IVB WKF 4-4	Z7.261.1427.0	10
	5pole	IVB WKF 2,5-5	Z7.280.6527.0	10	IVB WKF 4-5	Z7.261.1527.0	10
	6pole	IVB WKF 2,5-6	Z7.280.6627.0	10	IVB WKF 4-6	Z7.261.1627.0	10
	7pole	IVB WKF 2,5-7	Z7.280.6727.0	20	IVB WKF 4-7	Z7.261.1727.0	20
	8pole	IVB WKF 2,5-8	Z7.280.6827.0	20	IVB WKF 4-8	Z7.261.1827.0	20
	9pole	IVB WKF 2,5-9	Z7.280.6927.0	20	IVB WKF 4-9	Z7.261.1927.0	20
	10pole	IVB WKF 2,5-10	Z7.280.7027.0	20	IVB WKF 4-10	Z7.261.2027.0	20
6. Cover w. warning symbol over 4 blo	cks	ADC 1 GELB	04.344.0153.8	10	ADC 2,5 GELB	04.344.0353.8	10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
		**300 V for use grou	ıр C		**300 V for use grou	ıр C	
		600 V for use group	p D, E		600 V for use grou	ıp D, E	
		* CL I, ZN1, AExe II			* CL I, ZN1, AExe II		
Marking accessories also see page 178	-179 and 250-251	**CL I, ZN1, Exe II			**CL I, ZN1, Exe II		

IDC function blocks, type WKC



2.5 mm²

WKC 2,5 E/35...

6 mm

EN 60 947-7-1 UL ratings CSA ratings Width

Rated cross section

fine stranded solid $1 - 2.5 \text{ mm}^2$ $1 - 2.5 \text{ mm}^2$ No. 18-14 AWG No. 16-14 AWG

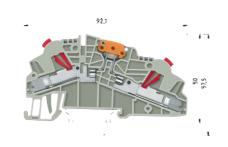
The double-tier block is available upon request as function block for most different connection

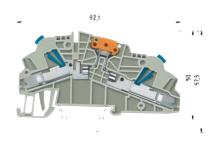
Examples of functions

01000 00011011	•		2.0 111111			
	Turno	Part no Std nook				
	туре	rait iio. Stu. pack			○	
Color: red	WKC 2 5 F/35	56 303 vv53 5	5	6.303.7553.5	00	
color: crungo	VVICO 2,0 2,00	00.000.777.00.0				
			5	6.303.7153.5	· · · ·	
l = 2 m	35 x 27 x 7 5 FN 60715	98 300 0000 0 1	5	6.303.7153.9	o · -··• • o	
	· · · · · · · · · · · · · · · · · · ·					
	·		5	6 303 8053 9		I = 1 A
	·				0	U = 1000
- ,	711 0 1 2,0 32.72.	07.012.0100.0				
	TWC 1-2 5 D2 /F	07 312 5553 0 10	5	6 303 8253 5		I = 1 A
				0.000.0200.0		U = 1000
				6 303 7953 5	O- ♦ O	I = 1 A
· · ·				0.000.7000.0	0 	U = 1000
			5	6 303 8353 5	00	I = 1 A
	IVB WKF 4-9					U = 1000
· · ·	IVB WKF 4-10					
olocks	ADC 2,5 GELB	04.344.0353.8 10				R = 4,7 K
	WK 2,5 ST 2/2,3	Z5.553.2921.0 10	-		\$ 300	P = 0.5 W
		06.502.4000.0 5	L	ED rot	→	U = 24 V I
						R = 4,7 K
			-		√ ¥	P = 0.5 W
			L	ED rot	0 0	U = 24 V [
						R = 680 K
			5	6.303.7353.5		P = 0.25 V
					0 4 0	U = 100-50
	Color: red Color: orange L = 2 m L = 2 m 8 mm wide 8 mm wide Color: gray Color: blue Color: green Color: green Color: blue 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole 9 pole 10 pole	Color: red WKC 2,5 E/35 Color: orange WKC 2,5 E/35 L = 2 m 35 x 27 x 7,5 EN 60715 L = 2 m 35 x 24 x 15 EN 60715 8 mm wide 9708/2 S 35 8 mm wide WEF 1/35 Color: gray APC 1-2,5 D2./E. Color: blue Color: green Color: green Color: blue TWC 1-2,5 D2./E. BLAU 2 pole IVB WKF 4-2 3 pole IVB WKF 4-3 4 pole IVB WKF 4-4 5 pole IVB WKF 4-5 6 pole IVB WKF 4-7 8 pole IVB WKF 4-8 9 pole IVB WKF 4-9 10 pole IVB WKF 4-9	Color: red WKC 2,5 E/35 56.303.xx53.5 Color: orange WKC 2,5 E/35 56.303.xx53.9 L = 2 m 35 x 27 x 7,5 EN 60715 98.300.0000.0 1 L = 2 m 35 x 24 x 15 EN 60715 98.360.0000.0 1 8 mm wide 9708/2 S 35 Z5.522.8553.0 100 8 mm wide WEF 1/35 Z5.522.8553.0 100 Color: gray APC 1-2,5 D2./E. 07.312.5453.0 10 Color: blue Color: gray TWC 1-2,5 D2./E. 07.312.5553.6 10 2 pole IVB WKF 4-2 Z7.261.1227.0 10 3 pole IVB WKF 4-3 Z7.261.1327.0 10 4 pole IVB WKF 4-4 Z7.261.1427.0 10 5 pole IVB WKF 4-5 Z7.261.1527.0 10 7 pole IVB WKF 4-6 Z7.261.1527.0 10 8 pole IVB WKF 4-8 Z7.261.1527.0 20 8 pole IVB WKF 4-9 Z7.261.1927.0 20 10 pole IVB WKF 4-9 Z7.261.1927.0 20 10 pole IVB WKF 4-10 Z7.261.2027.0 20	Color: red WKC 2,5 E/35 56.303.xx53.5 Color: orange WKC 2,5 E/35 56.303.xx53.9 L = 2 m 35 x 27 x 7,5 EN 60715 98.300.0000.0 1 L = 2 m 35 x 24 x 15 EN 60715 98.360.0000.0 1 8 mm wide 9708/2 S 35 75.522.8553.0 100 8 mm wide WEF 1/35 75.522.8553.0 100 Color: gray APC 1-2,5 D2/E. 07.312.5453.0 10 Color: green Color: green TWC 1-2,5 D2/E. D7.312.5553.6 10 Zpole IVB WKF 4-2 77.261.1227.0 10 3pole IVB WKF 4-3 77.261.1327.0 10 4pole IVB WKF 4-4 77.261.1427.0 10 5pole IVB WKF 4-6 77.261.1527.0 10 Typole IVB WKF 4-7 77.261.1527.0 10 8pole IVB WKF 4-8 77.261.1927.0 20 10pole IVB WKF 4-9 77.261.1927.0 20 10pole IVB WKF 4-9 77.261.1927.0 20 10pole IVB WKF 4-10 77.261.2027.0 20 10pole IVB WKF 4-10 77.261.2027.0 20 10pole IVB WK 4-10 77.261.2027.0 20 10pole IVB WK 5264 B 0,6 x 3,5 06.502.4000.0 5	Type	Color: red WKC 2,5 E/35 56.303.xx53.5 Color: orange WKC 2,5 E/35 56.303.xx53.5 L = 2 m 35 x 27 x 7,5 EN 60715 98.300.0000.0 1 L = 2 m 35 x 24 x 15 EN 60715 98.300.0000.0 1 8 mm wide 9708/2 S 35 25.522.8553.0 100 Color: gray APC 1-2,5 D2/E. 07.312.5453.0 10 Color: gray TWC 1-2,5 D2/E. 07.312.5553.6 10 2 pole IVB WKF 4-2 27.261.1327.0 10 3 pole IVB WKF 4-3 27.261.1327.0 10 4 pole IVB WKF 4-5 27.261.1527.0 10 7 pole IVB WKF 4-5 27.261.1527.0 10 7 pole IVB WKF 4-7 27.261.1627.0 10 7 pole IVB WKF 4-8 27.261.1627.0 10 7 pole IVB WKF 4-9 27.261.1927.0 20 10 pole IVB WKF 4-10 27.261.1927.0 20 10 pole IVB WKF 4-10 27.261.2027.0 20 10 pole IVB WKF 4-10 27.261.2

IDC knife edge disconnect block, type WKC

The disconnect knife of the WKC TKM series swings in an out on a pivot. The distinctive color of the disconnect lever signals the open state. The conductor can be terminated with the lever in the open or closed position. Built-in test points are located on both sides of the terminal block.





WKC 1 TKM/35

WKC 2,5 TKM/35

EN 60 947-7-1 **UL** ratings CSA ratings Width Approvals

Rated cross section

fine stranded solid $0.2 - 1 \, mm^2$ $0.2 - 1 \text{ mm}^2$ 800 V/8 kV/3 13.5 No. 30-18 AWG 600 V 13 No. 24-18 AWG 300/600 V* 13 6 mm $1 \, \text{mm}^2$ KEMA **711** @

fine stranded solid $1 - 2.5 \text{ mm}^2$ 1 – 2.5 mm² 800 V/8 kV/3 20 No. 18-14 AWG 600 V 22 300/600 V* 20 No. 16-14 AWG 6 mm 2.5 mm^2 KEMA 🗫 🐠

		Type	Part no. Std	. pack	Type	Part no. Std. pack
Knife edge disconnect block	Color: gray	WKC 1 TKM/35	56.301.2053.0	50	WKC 2,5 TKM/35	56.303.2053.0 50
Knife edge disconnect block	Color: blue	WKC 1 TKM/35 BLAU	56.301.2053.6	50	WKC 2,5 TKM/35 BLAU	56.303.2053.6 50
Accessories						
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0 1
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0 100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0 100
3. End plate	Color: gray	APC 1-2,5 D1./TK.	07.312.5253.0	10	APC 1-2,5 D1./TK.	07.312.5253.0 10
	Color: blue	APC 1-2,5 D1./TK.BLAU	07.312.5253.6	10	APC 1-2,5 D1./TK.BLAU	07.312.5253.6 10
	Color: green					
4. Partition plate	Color: gray	TWC 1-2,5 D1.	07.312.5353.0	10	TWC 1-2,5 D1.	07.312.5353.0 10
	Color: blue	TWC 1-2,5 D1. BLAU	07.312.5353.6	10	TWC 1-2,5 D1. BLAU	07.312.5353.6 10
5. Jumper bar,	2pole	IVB WKF 4-2	Z7.261.1227.0	10	IVB WKF 4-2	Z7.261.1227.0 10
insulated	3pole	IVB WKF 4-3	Z7.261.1327.0	10	IVB WKF 4-3	Z7.261.1327.0 10
	4pole	IVB WKF 4-4	Z7.261.1427.0	10	IVB WKF 4-4	Z7.261.1427.0 10
	5pole	IVB WKF 4-5	Z7.261.1527.0	10	IVB WKF 4-5	Z7.261.1527.0 10
	6pole	IVB WKF 4-6	Z7.261.1627.0	10	IVB WKF 4-6	Z7.261.1627.0 10
	7pole	IVB WKF 4-7	Z7.261.1727.0	20	IVB WKF 4-7	Z7.261.1727.0 20
	8pole	IVB WKF 4-8	Z7.261.1827.0	20	IVB WKF 4-8	Z7.261.1827.0 20
	9pole	IVB WKF 4-9	Z7.261.1927.0	20	IVB WKF 4-9	Z7.261.1927.0 20
	10pole	IVB WKF 4-10	Z7.261.2027.0	20	IVB WKF 4-10	Z7.261.2027.0 20
6. Cover w. warning symbol over 4 block	<s< td=""><td>ADC 2,5 GELB</td><td>04.344.0353.8</td><td>10</td><td>ADC 2,5 GELB</td><td>04.344.0353.8 10</td></s<>	ADC 2,5 GELB	04.344.0353.8	10	ADC 2,5 GELB	04.344.0353.8 10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0 10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0 5
		*300 V for use group	С		*300 V for use group	C
		*600 V for use group	D, E		*600 V for use group	D, E
Marking accessories also see page 178-1	79 and 250-251					

taris

IDC disconnect block, type WKC

Fused plug:

EN 60 947-7-1

UL ratings

CSA ratings

Width

Nominal voltage: 250 V

Nominal current: VDE 0820 T2/IEC 127-2 with a

leakage loss of 1.6W.6.3 A for single blocks4 A for blocks directly side by side

Indicator (24 V): red light

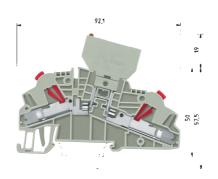
Power consumption 10.3 mA

Indicator (220 V): red light

Power consumption: 0.3 mA

Rated cross section

*) The power load is determined by the built-in fuse. The voltage range is determined by the built-in LED.



WKC 1 TKG/35 with fuse holder

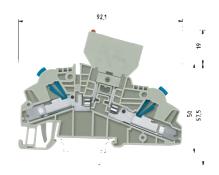
fine stranded solid V A

0.2 - 1 mm² 0.2 - 1 mm² 800 V/8 kV/3 *

No. 30-18 AWG 600 V*** 6.3***

No. 24-18 AWG 300 V 6.3

6 mm 1 mm²



WKC 2.5 TKG/35 with fuse holder

fine stranded solid V A

1 – 2.5 mm² 1 – 2.5 mm² 800 V/8 kV/3 *

No. 18-14 AWG 600 V*** 6.3***

No. 16-14 AWG 300 V 6.3

6 mm 2.5 mm²

pprovals		KEMA AT ®		KEMA 91 (B)	
		Type	Part no. Std. pack	Туре	Part no. Std. pack
Disconnect block	Color: gray	WKC 1 TKG/35	56.301.4053.0 50	WKC 2,5 TKG/35	56.303.4053.0 50
Fuse holder for fuse 5 x 20	Color: gray	Si ST	Z1.299.4055.0 10	Si ST	Z1.299.4055.0 10
Fuse holder with indicator (24 V)	Color: gray	Si ST LED	Z1.299.4155.0 10	Si ST LED	Z1.299.4155.0 10
Fuse holder with indicator (220 V)	Color: gray	Si ST GL	Z1.299.4255.0 10	Si ST GL	Z1.299.4255.0 10
Accessories					
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 7,5 EN 60715	98.300.0000.0 1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0 1	35 x 24 x 15 EN 60715	98.360.0000.0 1
2. End clamp for TS 35	8 mm wide	9708/2 S 35	Z5.522.8553.0 100	9708/2 S 35	Z5.522.8553.0 100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0 100	WEF 1/35	Z5.523.9353.0 100
3. End plate	Color: gray	APC 1-2,5 D1./TK.	07.312.5253.0 10	APC 1-2,5 D1./TK.	07.312.5253.0 10
	Color: blue				
	Color: green				
4. Partition plate	Color: gray	TWC 1-2,5 D1.	07.312.5353.0 10	TWC 1-2,5 D1.	07.312.5353.0 10
	Color: blue				
5. Jumper bar,	2pole	IVB WKF 4-2	Z7.261.1227.0 10	IVB WKF 4-2	Z7.261.1227.0 10
insulated	3pole	IVB WKF 4-3	Z7.261.1327.0 10	IVB WKF 4-3	Z7.261.1327.0 10
	4pole	IVB WKF 4-4	Z7.261.1427.0 10	IVB WKF 4-4	Z7.261.1427.0 10
	5pole	IVB WKF 4-5	Z7.261.1527.0 10	IVB WKF 4-5	Z7.261.1527.0 10
	6pole	IVB WKF 4-6	Z7.261.1627.0 10	IVB WKF 4-6	Z7.261.1627.0 10
	7pole	IVB WKF 4-7	Z7.261.1727.0 20	IVB WKF 4-7	Z7.261.1727.0 20
	8pole	IVB WKF 4-8	Z7.261.1827.0 20	IVB WKF 4-8	Z7.261.1827.0 20
	9pole	IVB WKF 4-9	Z7.261.1927.0 20	IVB WKF 4-9	Z7.261.1927.0 20
	10pole	IVB WKF 4-10	Z7.261.2027.0 20	IVB WKF 4-10	Z7.261.2027.0 20
6. Cover w. warning symbol over 4 blo	cks	ADC 2,5 GELB	04.344.0353.8 10	ADC 2,5 GELB	04.344.0353.8 10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0 10	WK 2,5 ST 2/2,3	Z5.553.2921.0 10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0 5	DIN 5264 B 0,6 x 3,5	06.502.4000.0 5
Marking accessories also see page 178	-179 and 250-251				

IDC disconnect block, type WKC

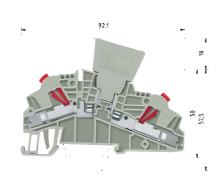
- ***) 300 V for use Group C 600 V for use Group B, D per UL 1059 Group D, E per CSA C 22.2
- **) The power load is determined by the installed component

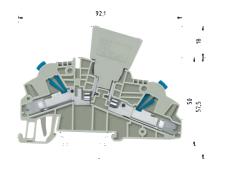
Periodic peak voltage 1000 V
Direction Anode Cathode 1)
of the diode: Cathode Anode 2)

EN 60 947-7-1 UL ratings CSA ratings Width

Rated cross section

Approvals





WKC 1 TKG/35 with diode plug

fine stranded solid V A

0.2 - 1 mm² 0.2 - 1 mm² 800 V/8 kV/3 **

No. 30-18 AWG 300/600 V*** **

No. 24-18 AWG 300/600 V **

6 mm 1 mm²

WKC 2,5 TKG/35 with diode plug

fine stranded solid V A

1 – 2.5 mm² 1 – 2.5 mm² 800 V/8 kV/3 **

No. 18-14 AWG 300/600 V ** **

No. 16-14 AWG 300/600 V **

6 mm 2.5 mm²

			Туре	Part no. Std.	. pack	Туре	Part no. Std.	. pack
Disconnect block		Color: gray	WKC 1 TKG/35	56.301.4053.0	50	WKC 2,5 TKG/35	56.303.4053.0	50
Diode plug – empty	$J_{max} = 10 A$	Color: gray	DIST	Z1.299.3053.0		DIST	Z1.299.3053.0	
Diode plug – diode	$J_{max} = 1 A$	Color: gray	DIST-1 N 4007-11)	Z1.299.3155.0	10	DIST-1 N 4007-11)	Z1.299.3155.0	10
Diode plug – diode	$J_{max} = 1 A$	Color: gray	DIST-1 N 4007-2 ²⁾	Z1.299.3355.0	10	DIST-1 N 4007-2 ²⁾	Z1.299.3355.0	10
Diode plug with jumper	$J_{max} = 10 A$	Color: gray	DIST-D	Z1.299.3255.0	10	DIST-D	Z1.299.3255.0	
Accessories								
1. Mounting rail 35, 7.5 m	m high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mr	n high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35		8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, sci	rewless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate		Color: gray	APC 1-2,5 D1./TK.	07.312.5253.0	10	APC 1-2,5 D1./TK.	07.312.5253.0	10
		Color: blue						
		Color: green						
4. Partition plate		Color: gray	TWC 1-2,5 D1.	07.312.5353.0	10	TWC 1-2,5 D1.	07.312.5353.0	10
		Color: blue						
5. Jumper bar,		2pole	IVB WKF 4-2	Z7.261.1227.0	10	IVB WKF 4-2	Z7.261.1227.0	10
insulated		3pole	IVB WKF 4-3	Z7.261.1327.0	10	IVB WKF 4-3	Z7.261.1327.0	10
		4pole	IVB WKF 4-4	Z7.261.1427.0	10	IVB WKF 4-4	Z7.261.1427.0	10
		5pole	IVB WKF 4-5	Z7.261.1527.0	10	IVB WKF 4-5	Z7.261.1527.0	10
		6pole	IVB WKF 4-6	Z7.261.1627.0	10	IVB WKF 4-6	Z7.261.1627.0	10
		7pole	IVB WKF 4-7	Z7.261.1727.0	20	IVB WKF 4-7	Z7.261.1727.0	20
		8pole	IVB WKF 4-8	Z7.261.1827.0	20	IVB WKF 4-8	Z7.261.1827.0	20
		9pole	IVB WKF 4-9	Z7.261.1927.0	20	IVB WKF 4-9	Z7.261.1927.0	20
		10pole	IVB WKF 4-10	Z7.261.2027.0	20	IVB WKF 4-10	Z7.261.2027.0	20
6. Cover w. warning symbol	ol over 4 block	S	ADC 2,5 GELB	04.344.0353.8	10	ADC 2,5 GELB	04.344.0353.8	10
7. Test plug			WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulate	d		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5

Hybrid DIN rail mount terminal blocks with IDC and screw technology, type WKC...S/C

taris HYBRID



With taris HYBRID all the benefits of using IDC technology can be realized for factory wiring. While, the field side can be terminated with familiar screw technology.

taris HYBRID offers...

- ... for factory wiring
- □ IDC technology

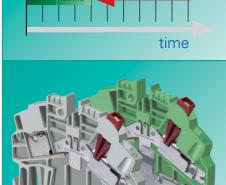
easy of use reduced wiring times compact design Screwdriver guide

Application advantages.

- → No special tools required
- → No stripping necessary
- → Reduces panel space
- → Indicates open or closed state of the



- ... for field wiring □ Screw technology
 - **TOP** entry system
 - Wide range of Conductor Types
- → Well known termination technology
- Wire and screwdriver entry in same plane
- Ease of wiring in small confined spaces Use of any conductor insulation type



Terminal variations

- \rightarrow feed through and ground
- identification in the type description C = IDC technology
 - S = screw connection
- → Indication of the position

WKC 1... Red actuator WKC 2.5... Blue actuator*





solid/stranded copper

stranded copper

solid copper

stranded copper with ferrules

torque specification

→ Connecotr and wire gauge

 $\mathbf{C} = 0.2 - 1 \text{ mm}^2 / \text{AWG } 24-18$

 $\mathbf{S} = 0.5 - 2.5 \text{ mm}^2 / \text{AWG } 22-12$

 $S = 0.5 - 4 \text{ mm}^2$ / AWG 22-12

 $\mathbf{S} = 0.5 - 2.5 \text{ mm}^2 / \text{AWG } 22-12$

S = 8 lb. - in/0.6 Nm (M2.5)



solid/stranded copper

stranded copper solid copper

stranded copper with ferrules

torque specification

→ Connection and wire gauge

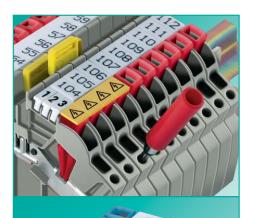
 $C = 1 - 2.5 \text{ mm}^2 / AWG 16-14$

 $\mathbf{S} = 0.5 - 4 \text{ mm}^2$ / AWG 22-10 $\mathbf{S} = 0.5 - 6 \text{ mm}^2$ / AWG 22-10

 $\mathbf{S} = 0.5 - 4 \text{ mm}^2 / \text{AWG } 22-10$

S = 8 lb. - in/0.7 Nm (M3)





60 50

Reg. Nr. 14 194-02

wieland

Test plug

- ☐ taris offers testing for all terminals, without removing any of the wiring
- ☐ Built-in test points at each termination point for use with 2.3 mm diameter test
- ☐ Modular test plug modules available on pages 176, 177

Material

☐ Metal parts:

special alloys and surface treatments provide low contact resistance and high corrosion resistance:

clamping body made of tin-plated

current carrying bar made of tin-plated copper

grounding foot - tin-plated copper alloy



- ☐ The insulated push-in jumper bars, IVB WKF... are completely touch safe
- ☐ No partition plate is required between jumpered terminals of different potential
- ☐ The IVB WKF... jumper bars are rated for the same current as the terminal block

□ <u>Insulating material</u>:

Polyamide has excellent electrical, chemical and mechanical properties

Insulating housings: Polyamide 66/6 Tracking current resistance: CTI 600 Flammability class: UL 94-V0

(also see section facts & DATA)

Marking capability

- Single marking tags
- ☐ Marking tag strips (10 tags per strip) to rapidly identify the terminals and circuitry
- ☐ Tear-off marking strip for marking up to 3 digits per terminal block
- ☐ Marking facility is down the center so that the marking tag is not covered by the conductor.

Our wieplan software helps to plan your own terminal block assembly (see page 10/11).

Various German and international approvals are available for feed-through terminal blocks. They are indiscated in detail on the corresponding pages. The feed-through blocks of series WK/WKN are approved for the increased-safety type of protection EEx "e" in accordance to DIN EN 50019 / VDE 0170/0171 part 6 where indicated. No type test is required for the EEx "i" type of protection.

Cover with warning symbol

- ☐ Over with warning symbol **ADC** to snap on to blocks which remain live after the mains have been switch off (VDE 0113)
- screwdriver

Cover can only be removed with a

DQS certificates for all products

- Quality standard as per DIN ISO 9001 in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

Note

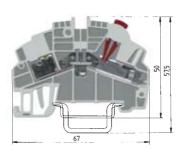
The information regarding crosssectional areas and connection types pertains to wires without ferrules. Ferrules are not neccessary for secure connection.

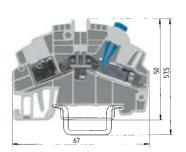
The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to. For this purpose, Wieland offers a large selection of appopriate accessories.

A detailed description of technical data, the standards requirements, and the application conditions can be found in catalog section facts & DATA.

Hybrid feed-through terminals with IDC and screw technology, type WKC...S/C

taris HYBRID





Clamping point "S" = screw technology Clamping point "C" = IDC technology

Wire strip length applies to the screw terminal only

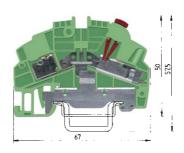
WKC 1 S/C/35

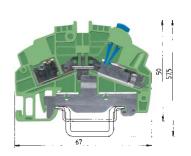
WKC 2.5 S/C/35

fine stranded solid fine stranded solid Α 1 – 2.5 mm² 1 – 2.5 mm² 800 V/8 kV/3 "S" 22-10 AWG/ "C" 18-14 AWG 600V "S" 22-10 AWG/ "C" 16-14 AWG 600V 0.21 – 1 mm² 0.21 – 1 mm² 800 V/8 kV/3 "S" 22-12 AWG / "C" 24-18 AWG 600V "S" 22-12 AWG/ "C" 24-18 AWG 600V EN 60 947-7-1 13.5 13 13 22 20 **UL** ratings CSA ratings Width Wire strip length 5 mm 10mm 6 mm 10mm Approvals **91** @ pending **91** @ pending

					- - • • • • • • • • • • • • • • • • • • •		
		Туре	Part no. Std.	pack	Туре	Part no. Std.	pack pack
Feed-through terminal	Color: gray	WKC 1 S/C/35	56.351.0053.0		WKC 2,5 S/C/35	56.353.0053.0	
Feed-through terminal	Color: blue	WKC 1 S/C/35 BLAU	56.351.0053.6		WKC 2,5 S/C/35	56.353.0053.6	
Ground terminal Color	: green/yellow						
Accessories							
1. Mounting rail 35, 7.5 mm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 mm high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35, with screw	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, screwless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate 1.5 mm wide	Color: gray	APC 1-2,5	07.312.5053.0	10	APC 1-2,5	07.312.5053.0	10
1.5 mm wide	Color: blue	APC 1-2,5 BLAU	07.312.5053.6	10	APC 1-2,5 BLAU	07.312.5053.6	10
1.5 mm wide	Color: green						
4. Partition plate 1.5 mm wide	Color: gray	TWC 1-2,5	07.312.5153.0	10	TWC 1-2,5	07.312.5153.0	10
1.5 mm wide	Color: blue	TWC 1-2,5 BLAU	07.312.5153.6	10	TWC 1-2,5 BLAU	07.312.5153.6	10
5. Jumper bar,	2pole	IVB WKF 2,5-2	Z7.280.6227.0	10	IVB WKF 4-2	Z7.261.1227.0	10
insulated	3pole	IVB WKF 2,5-3	Z7.280.6327.0	10	IVB WKF 4-3	Z7.261.1327.0	10
	4pole	IVB WKF 2,5-4	Z7.280.6427.0	10	IVB WKF 4-4	Z7.261.1427.0	10
	5pole	IVB WKF 2,5-5	Z7.280.6527.0	10	IVB WKF 4-5	Z7.261.1527.0	10
	6pole	IVB WKF 2,5-6	Z7.280.6627.0	10	IVB WKF 4-6	Z7.261.1627.0	10
	7pole	IVB WKF 2,5-7	Z7.280.6727.0	20	IVB WKF 4-7	Z7.261.1727.0	20
	8pole	IVB WKF 2,5-8	Z7.280.6827.0	20	IVB WKF 4-8	Z7.261.1827.0	20
	9pole	IVB WKF 2,5-9	Z7.280.6927.0	20	IVB WKF 4-9	Z7.261.1927.0	20
	10pole	IVB WKF 2,5-10	Z7.280.7027.0	20	IVB WKF 4-10	Z7.261.2027.0	20
6. Cover w. warning symbol over 4 block	(S						
Clam	ping point "C"	ADC 1/4 GELB	04.344.0153.8	10	ADC 2,5 GELB	04.344.0353.8	10
Clam	ping point "S"	ADF 2,5/4 GELB	04.343.6053.8	10	ADF 4/4 GELB	04.343.6153.8	10
7. Test plug		WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulated		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
Screw driver, uninsulated, MINI		DIN 5264 B 0,6 x 3,5 M	06.502.5000.0	10	DIN 5264 B 0,6 x 3,5 M	06.502.5000.0	10
Marking accessories also see page 178-1	79 and 250-251						
. 0							
		l					

Hybrid ground terminals with IDC and screw technology, type WKC...S/C





Clamping point "S" = screw technology Clamping point "C" = IDC technology

Wire strip length applies to the screw terminal only

WKC 1 S/C/SL/35

5 mm

WKC 2.5 S/C/35

EN 60 947-7-1 **UL** ratings CSA ratings Width Wire strip length fine stranded solid 0.21 – 1 mm² 0.21 – 1 mm² 800 V/8 kV/3 13.5 "S" 22-12 AWG/ "C" 24-18 AWG 600V 13 "S" 22-12 AWG/ "C" 24-18 AWG 600V 13

fine stranded solid Α 800 V/8 kV/3 24 22 20 6 mm 10mm

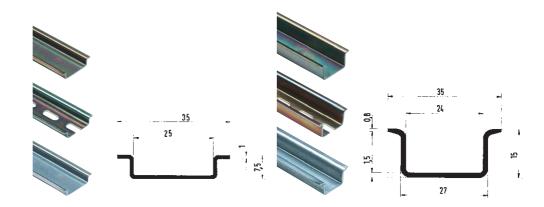
S nending **S** pending

10mm

pprovals			91 @ pending			91 @ pending		
			Туре	Part no. Sto	d. pack	Туре	Part no. Sto	d. pack
Feed-through terminal		Color: gray						
Feed-through terminal		Color: blue						
Ground terminal	Color:	green/yellow	WKC 1 S/C/SL/35	56.351.9053.0		WKC 2,5 S/C/SL/35	56.353.9053.0	
Accessories								
1. Mounting rail 35, 7.5 m	nm high	L = 2 m	35 x 27 x 7,5 EN 60715	98.300.0000.0	1	35 x 27 x 7,5 EN 60715	98.300.0000.0	1
Mounting rail 35, 15 m	m high	L = 2 m	35 x 24 x 15 EN 60715	98.360.0000.0	1	35 x 24 x 15 EN 60715	98.360.0000.0	1
2. End clamp for TS 35, w	rith screw	8 mm wide	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp for TS 35, so	crewless	8 mm wide	WEF 1/35	Z5.523.9353.0	100	WEF 1/35	Z5.523.9353.0	100
3. End plate	1.5 mm wide 1.5 mm wide	Color: gray Color: blue						
	1.5 mm wide	Color: green	APC 1-2,5 GRÜN	07.312.5053.7	10	APC 1-2,5 GRÜN	07.312.5053.7	10
4. Partition plate	1.5 mm wide	Color: gray						
	1.5 mm wide	Color: blue						
5. Jumper bar,		2pole						
insulated		3pole						
		4pole						
		5pole						
		6pole						
		7pole						
		8pole						
		9pole						
		10pole						
6. Cover w. warning symb	ool over 4 block	s						
	Clamp	oing point "C"	ADC 1/4 GELB	04.344.0153.8	10	ADC 2,5 GELB	04.344.0353.8	10
	Clamp	oing point "S"	ADF 2,5/4 GELB	04.343.6053.8	10	ADF 4/4 GELB	04.343.6153.8	10
7. Test plug			WK 2,5 ST 2/2,3	Z5.553.2921.0	10	WK 2,5 ST 2/2,3	Z5.553.2921.0	10
8. Screw driver, uninsulate	ed		DIN 5264 B 0,6 x 3,5	06.502.4000.0	5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
Screw driver, uninsulate	ed, MINI		DIN 5264 B 0,6 x 3,5 M	06.502.5000.0	10	DIN 5264 B 0,6 x 3,5 M	06.502.5000.0	10

Accessories DIN rail terminal blocks with IDC connection, type WKC



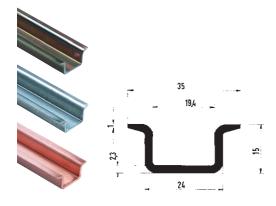


Mounting rail 35 x 7,5 according to DIN EN 60715

Mounting rail 35 x 15 according to DIN EN 60715

	Туре	Part no. Std. pack	Туре	Part no. Std. pack
Mounting rail				
1. Steel, galv. zinc-plated, dichromated, unslotted $L=2 \text{ m}$	35 x 27 x 7,5 EN 60715	98.300.0000.0 1	35 x 27 x 15 EN 60715	98.370.0000.0 1
Steel, galv. zinc-plated, dichromated, slotted $L = 2 \text{ m}$	35 x 27 x 7,5 EN 60715 slotte	d 98.300.1000.0 1	35 x 27 x 15 EN 60715	98.370.1000.0 1
2. Steel, unplated unslotted $L = 2 \text{ m}$	35 x 27 x 7,5 EN 60715 unslott	ed 98.300.0010.0		
Steel, unplated slotted $L = 2 \text{ m}$				
3. Steel, high-temp. zinc-plated unslotted $L = 2 \text{ m}$				
Steel, high-temp. zinc-plated slotted $L = 2 \text{ m}$				
4. E copper unslotted L = 2 m				
E copper slotted $L = 2 \text{ m}$				
End clamp				
5. End clamp with screw for 35 mm rail 8 mm wide				
6. End clamp with screw for 35 mm rail				
with marking plate 8/17.5 mm wide				
7. End clamp, screwless, for 35 mm rail 8 mm wide				
8. End clamp, screwless, for 35 mm rail				
with marking plate 8/17,5 mm wide				
for terminal rails				
9. Bus bar holder 8 mm wide				
Busbar support, with screw 8 mm				
10. Clamping screw for mounting rail				
11. Optional label carrier				
12. Paper Markers in perforated sheet form				
(1 sheet = 100 Marking tags)				
	-		-	

taris







Mounting rail 35 x 15 according to DIN EN 60715

End clamp for TS 35 fastening with screw

End clamp for TS 35 fastening without screw

according to 2t		9			ractorning		
Туре	Part no. Std. pack	Type	Part no. St	d. pack	Туре	Part no.	Std. pack
35 x 27 x 15 EN 60715	98.360.0000.0 1						
35 x 27 x 15 EN 60715 ZN	00 000 0004 0 1						
35 X Z / X 15 EIN 00 / 15 ZIN	98.360.0004.0						
35 x 27 x 15 EN 60715 CU	98.380.0000.0 10						
		9708/2 S 35	Z5.522.8553.0	100			
		9708/2 BS/35	69.920.0553.0	100			
					WEF 1/35	Z5.523.9353.0	100
					WEF 1 BS/35	69.920.1053.0	100
					WKIF SH/E/35	Z1.108.8453.0	10
					WINI SHILE/SS		10
						69.920.1153.0	
					2012	05.091.0200.0	
					BSIR	Z4.243.8453.0	
			04.019.0289.0	10		04.019.0289.0	10

Marking accessories for IDC DIN rail terminal blocks





Material: Polyamide 66/6 Color: black figures on white background

DIN rail terminal blocks with IDC connection, type WKC, accept marking tags on both sides on top of the block in a 3-chamber slot. It can be either 3 single number tags from the tear-off marking strip, or single tags, or marking strips.

- Marking strips, marked and unmarked, made from Polyamide 66/6, suitable for10 blocks in a row. Marking 1-10, 11-20 etc. up to 991-999. Type 9705 A/5/10 (5 mm spacing) for terminal blocks type WKC 1... Type 9705 A/6/10 (6 mm spacing) for terminal blocks type WKC 2.5...
- 2. **Tear-off marking strip** with 10 marking tags made of Polyamide 66/6, white, marked and unmarked.

 This marking system considerably reduces the marking time of terminal block assemblies. For numerical marking of terminal block assemblies you require only 11 warehouse positions. As the time used for picking and attaching the tags is reduced, and as stockkeeping is low and the prices extremely favorable, enormous cost savings are the result from using these tear-off marking strips.

 Type 9704 A... (see page 180)
- Single marking tag made of Polyamide 66/6, white, marked and unmarked.
 Type 9705 A...
- Marking plates made of Polyamide 66/6 consisting of 11 marking strips.
 Type 9705 A/5/10 (5 mm spacing) for terminal blocks type WKC 1...
 Type 9705 A/6/10 (6 mm spacing) for terminal blocks type WKC 2.5...

Bezeichnungscomputer im Systemkoffer

Type		pack
Marking computer f	or markingcards	
0	05 500 0000 0	
marcom 2	95.502.0000.0	1
Description		
wieland marcom 2 is	,, ,	
computer for marking	tags of DIN rail t	erminal
blocks, pluggable con	nectors, cables a	nd switching
devices. The program	technology with	flexible
menu control produce	es excellent resul	ts requiring
only few input. Entry	of a sequence of	figures is
automatically limited	by the parameter	s of the
selected marking tags	s, making wrong p	orint-out
impossible. Repeated	d operations can b	e saved as so-
called JOBs and are t	herefore immedia	ately available
for print-out without f	urther entries. Th	e computer
disposes of a large nu	umber of fonts, w	ith numerical,
alphanumerical (small	l/capital letters) ar	nd symbolic
characters.		
marcom 2 is powere	d by an attached	power supply.
For a mains-independ	lent operation, the	marcom 2
Power Pack is availab	le.	
Marking tag plates fo	r marcom 2	
9705 A/5/10/11 marcom	Z4.242.5053.0	10
9705 AL/5/10/6 marcom	Z4.242.5153.0	10
9705 A/6/10/11 marcom	Z4.242.6053.0	10
9705 AL/6/10/6 marcom	Z4.242.6353.0	10
9705 A/8/10/7 marcom	74.242.8053.0	10

Marking strips and marking plates, marked





1 mm²/5 mm Width

2.5 mm²/6 mm Width

.242.5053.0 .845.0153.0 .845.0253.0 .845.0353.0 .845.0453.0 .845.0653.0 .845.0653.0 .845.0853.0 .845.0853.0	25 25 25 25 25 25 25 25 25	9705 A/6/10 Marking strips, mark 9705 A/6/10 B 1 - 10 11 - 20 21 - 30 31 - 40 41 - 50 51 - 60	04.846.0153.0 04.846.0253.0 04.846.0353.0 04.846.0453.0 04.846.0553.0	25 25 25 25 25 25 25
.845.0253.0 .845.0353.0 .845.0453.0 .845.0553.0 .845.0653.0 .845.0753.0	25 25 25 25 25 25 25	9705 A/6/10 B 1 - 10 11 - 20 21 - 30 31 - 40 41 - 50 51 - 60	04.846.0153.0 04.846.0253.0 04.846.0353.0 04.846.0453.0 04.846.0553.0	25 25 25
.845.0253.0 .845.0353.0 .845.0453.0 .845.0553.0 .845.0653.0 .845.0753.0	25 25 25 25 25 25 25	9705 A/6/10 B 1 - 10 11 - 20 21 - 30 31 - 40 41 - 50 51 - 60	04.846.0153.0 04.846.0253.0 04.846.0353.0 04.846.0453.0 04.846.0553.0	25 25 25
.845.0253.0 .845.0353.0 .845.0453.0 .845.0553.0 .845.0653.0 .845.0753.0	25 25 25 25 25 25 25	11 - 20 21 - 30 31 - 40 41 - 50 51 - 60	04.846.0253.0 04.846.0353.0 04.846.0453.0 04.846.0553.0	25 25 25
.845.0353.0 .845.0453.0 .845.0553.0 .845.0653.0 .845.0753.0 .845.0853.0	25 25 25 25 25 25	21 - 30 31 - 40 41 - 50 51 - 60	04.846.0353.0 04.846.0453.0 04.846.0553.0	25 25
.845.0453.0 .845.0553.0 .845.0653.0 .845.0753.0 .845.0853.0	25 25 25 25 25	31 - 40 41 - 50 51 - 60	04.846.0453.0 04.846.0553.0	25
.845.0653.0 .845.0753.0 .845.0853.0	25 25	51 - 60		25
.845.0753.0 .845.0853.0	25		04.040.0050.0	
.845.0853.0	-		04.846.0653.0	25
	25	61 - 70	04.846.0753.0	25
.845.0953.0	25	71 - 80	04.846.0853.0	25
	25	81 - 90	04.846.0953.0	25
.845.1053.0	25	91 - 100	04.846.1053.0	25
.855.0053.0	25	⊕ (10 x)	04.856.0053.0	25
.855.0153.0	25	± (10 x)	04.856.0153.0	25
.855.0253.0	25	+ (10 x)	04.856.0253.0	25
.855.0353.0	25	- (10 x)	04.856.0353.0	25
.855.0453.0	25	L1 (10 x)	04.856.0453.0	25
.855.0553.0	25	L2 (10 x)	04.856.0553.0	25
.855.0653.0	25	L3 (10 x)	04.856.0653.0	25
.855.0753.0	25	PE (10 x)	04.856.0753.0	25
.855.3153.0	25	SL (10 x)	04.856.3153.0	25
.855.3253.0	25	N (10 x)	04.856.3253.0	25
.855.0953.0	25	F1 (10 x)	04.856.0953.0	25
.855.1053.0	25	F2 (10 x)	04.856.1053.0	25
.855.0853.0	25	L1, L2, L3, N, PE (2 x)	04.856.0853.0	25
ed		Marking plates, unm	narked	
.242.5053.0	10	9705 A/6/10/11	Z4.242.6053.0	10
	855.0253.0 855.0353.0 855.0453.0 855.0553.0 855.0553.0 855.0753.0 855.3153.0 855.3253.0 855.3253.0 855.0953.0 855.0853.0	855.0253.0 25 855.0353.0 25 855.0453.0 25 855.0553.0 25 855.0653.0 25 855.0753.0 25 855.3153.0 25 855.3253.0 25 855.0953.0 25 855.1053.0 25	855.0253.0 25 + (10 x) 855.0353.0 25 - (10 x) 855.0453.0 25 L1 (10 x) 855.0553.0 25 L2 (10 x) 855.0553.0 25 L3 (10 x) 855.3153.0 25 SL (10 x) 855.3253.0 25 N (10 x) 855.3253.0 25 F1 (10 x) 855.0953.0 25 F2 (10 x) 8655.0853.0 25 F2 (10 x)	## ## ## ## ## ## ## ## ## ## ## ## ##





All Wieland Components which require $C \in C$ general certification are $C \in C$ certified, and identified with the $C \in C$ logo.

Terminal strips
Lighting and appliance terminals
Plug/screw terminal strips Terminal box Distribution terminal strips
Mains connectors for appliance wiring



 KL 16 PA compact Europa terminal strips 1.5 mm² to 16 mm² Male/female terminal strips Marking accessories 	Page 256 Page 257 Page 258 Page 258 Page 260
1 to 4pole Modular terminals	Page 261 Page 263
2 to 5pole 2 to 12pole Plug/screw KL 17 N	Page 264 Page 265 Page 267
 KL 58 6 – 10 mm² 3, 5, 6pole Screw/screw connections Screw/tab connections 	Page 268 Page 268 Page 268 Page 267 Page 267

Unbreakable terminal strips for narrow spaces

Material:

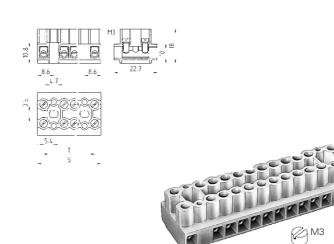
Insulating housing: Polyamide 6 ivory Hardness test at 125 °C Glow-wire test with 850 °C Tracking test PTI 250 Clamping body: nickel-plated brass Wire protection: phosphor bronze Clamping screws: steel, zinc-plated and dichromated

These terminal strips are designed for use under extreme conditions accord. to EN 60335-1/ DIN VDE 0700 T1.

Terminals with wire protection DS are fitted with a wire protection guard inside the clamping body, which prevents damage to the connected wire.

The clamping screws are secured against loosening and provide vibration-proof connections.

DIN VDE 0110 (fixed position) **UL** ratings CSA ratings EN 60335-1/DIN VDE 0700 T1



Type KL 16 PA 2.5 mm² without wire protection

500 V/6 kV/3 No. 22-12 AWG

250 V 20 A No. 22-12 AWG 300 V 25 A AC 400 V; 10 A; $1 - 1.5 \text{ mm}^2/1 - 2.5 \text{ mm}^2$

Type KL 16 PA 2.5 mm²

with wire protection (DS)

500 V/6 kV/3 No. 22-12 AWG No. 22-12 AWG

250 V 20 A 300 V 25 A AC 400 V; 10 A; $1 - 1.5 \text{ mm}^2/1 - 2.5 \text{ mm}^2$

Approvals				91/ (1)			FL 👀		
	Poles	G	Т	Туре	Part no.	Std. pack	Type	Part no.	Std. pack
	4	33.4	27	KL 16/4 PA	29.400.0453.0	65	KL 16/4 PA DS	29.401.0453.0	65
	6	44.2	37.8	KL 16/6 PA	29.400.0653.0	50	KL 16/6 PA DS	29.401.0653.0	50
	8	55	48.6	KL 16/8 PA	29.400.0853.0	40	KL 16/8 PA DS	29.401.0853.0	40
	12	76.6	70	KL 16/12 PA	29.400.1253.0	30	KL 16/12 PA DS	29.401.1253.0	30
	16	98.2	91.8	KL 16/16 PA	29.400.1653.0	20	KL 16/16 PA DS	29.401.1653.0	20
	20	119.8	113.4	KL 16/20 PA	29.400.2053.0	20	KL 16/20 PA DS	29.401.2053.0	20
Accessories									
Marking plate from white PVC,	4	33.4	27	BZKL 16/4 Z	Z4.102.0480.0	100	BZKL 16/4 Z	Z4.102.0480.0	100
marking surface on both sides	6	44.2	37.8	BZKL 16/6 Z	Z4.102.0680.0	100	BZKL 16/6 Z	Z4.102.0680.0	100
and four plastic pins from	8	55	48.6	BZKL 16/8 Z	Z4.102.0880.0	100	BZKL 16/8 Z	Z4.102.0880.0	100
Polyamide to fasten the marking	12	76.6	70	BZKL 16/12 Z	Z4.102.1280.0	100	BZKL 16/12 Z	Z4.102.1280.0	100
plate	16	98.2	91.8	BZKL 16/16 Z	Z4.102.1680.0	100	BZKL 16/16 Z	Z4.102.1680.0	100
	20	119.8	113.4	BZKL 16/20 Z	Z4.102.2080.0	100	BZKL 16/20 Z	Z4.102.2080.0	100
Fastening pins					05.592.1152.0			05.592.1152.0	
Marked marking plates, 4 to	4			BZKL 16/4 ZB	Z4.802.0480.0	100	BZKL 16/4 ZB	Z4.802.0480.0	100
20pole	to			to	to		to	to	
	20			BZKL 16/20 ZB	Z4.802.2080.0	100	BZKL 16/20 ZB	Z4.802.2080.0	100
Jumper bars of E-Cu									
	2	7.4			07.250.0027.0	10		07.250.0027.0	10
	80	596			07.250.1627.0	10		07.250.1627.0	10

Divisible Europa terminal strips

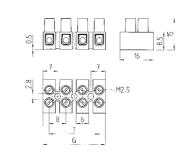
Material:

Insulating housing: Polyamide 6 ivory Hardness test at 125 °C Glow-wire test with 850 °C Tracking test PTI 250 Clamping body: nickel-plated brass Wire protection: phosphor bronze Clamping screws: steel, zinc-plated and dichromated

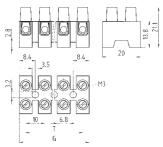
Permanent temperature 100 °C Permanent temperature 130 °C accord. to UL 746 B Tracking resistance accord. to DIN IEC 112 CTI > 600.

Terminals with wire protection DS are fitted with a wire protection guard inside the clamping body, which prevents damage to the connected wire. All parts are captive in

the insulating housing.
The clamping screws are secured against loosening and provide vibration-proof connections. The terminal strips are supplied with the clamping screws in the "open"









Type 4 E

1.5 mm² Type 6 EH

4 mm²

with DS: 1 mm² with DS: up to 2.5 mm²/fine-stranded 0.75 - 1.5 mm² 690 V; 24 A; 1.0 - 2.5 mm²

EN 60998-1/-2-1 (fixed position)

400 V; 17.5 A;

N 60998-1/-2-1 (fixed position)				7.5 A;		0.75 - 1.5 11111					1.0 – 2.5 mi
Approvals		Ø¥E (<u>\$</u>) 🚣	<u> </u>	77 @		(DVE	\$\$∠	SEV		
	Poles	G	Т	Type	Part no.	Std. pack	G	Т	Type	Part no.	Std. pack
without wire protection	1	6	_	4 E/ 1	21.304.0153.0	5000	7	_	6 EH/ 1	21.312.0153.0	4000
	2	14	8	4 E/ 2	21.304.0253.0	2000	17	10	6 EH/ 2	21.312.0253.0	1500
	3	22	16	4 E/ 3	21.304.0353.0	2000	27	20	6 EH/ 3	21.312.0353.0	750
	4	30	24	4 E/ 4	21.304.0453.0	2000	37	30	6 EH/ 4	21.312.0453.0	1000
	5	38	32	4 E/ 5	21.304.0553.0	1000	47	40	6 EH/ 5	21.312.0553.0	500
	6	46	40	4 E/ 6	21.304.0653.0	1000	57	50	6 EH/ 6	21.312.0653.0	500
	7	54	48	4 E/ 7	21.304.0753.0	500	67	60	6 EH/ 7	21.312.0753.0	500
	8	62	56	4 E/ 8	21.304.0853.0	500	77	70	6 EH/ 8	21.312.0853.0	250
	9	70	64	4 E/ 9	21.304.0953.0	500	87	80	6 EH/ 9	21.312.0953.0	250
	10	78	72	4 E/10	21.304.1053.0	500	97	90	6 EH/10	21.312.1053.0	250
	11	86		4 E/11	21.304.1153.0	500	107		6 EH/11	21.312.1153.0	250
	12	94	88	4 E	21.304.1253.0	500	117	110	6 FH	21.312.1253.0	250
	· -	-									
with wire protection (DS)	1	6	_	4 E/ 1 DS	21.305.0153.0	5000	7	_	6 EH/ 1 DS	21.313.0153.0	4000
UL ratings:	2	14	8	4 E/ 2 DS	21.305.0253.0	2000	17	10	6 EH/ 2 DS	21.313.0253.0	1500
AWG No. 20-14 20 A (4 E)	3	22	16	4 E/ 3 DS	21.305.0353.0	2000	27	20	6 EH/ 3 DS	21.313.0353.0	750
250 V 22-16 10 A (4 E DS)	4	30	24	4 E/ 4 DS	21.305.0453.0	2000	37	30	6 EH/ 4 DS	21.313.0453.0	1000
600 V with PVC insulating spacer	5	38	32	4 E/ 5 DS	21.305.0553.0	1000	47			21.313.0553.0	500
CSA ratings:	6	46			21.305.0653.0	1000	57			21.313.0653.0	500
AWG No. 22-16 10 A (4 E, 4 E DS)	7	54	48	4 E/ 7 DS	21.305.0753.0	500	67	60	6 EH/ 7 DS	21.313.0753.0	500
300 V 600 V with PVC insulating spacer	8	62			21.305.0853.0	500	77			21.313.0853.0	250
- with insulating spacer and fastening screws	9	70		,	21.305.0953.0	500	87			21.313.0953.0	250
from insulating material 800 V 4E (DS), 6E (DS),	10	78			21.305.1053.0	500	97			21.313.1053.0	250
6EH (DS) – 1pole version (without own fastening	11	86	80		21.305.1153.0	500	107		•	21.313.1153.0	250
device) no VDE approval	12	94		4 E DS	21.305.1253.0	500			6 EH DS	21.313.1253.0	250
Accessories	12	34	00	4 L D3	21.300.1203.0	300	117	110	ULITUS	21.010.1200.0	230
Insulating spacer from PVC for higher voltage	es										
	pole										
·	pole										
1000 mm	'										
					07.469.0280.0	100					
					07.469.1280.0	100					

07.469.1380.0

Divisible Europa terminal strips

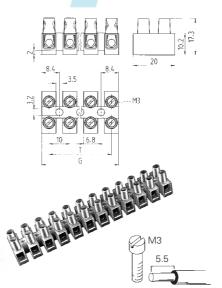
Material:

Insulating housing: Polyamide 6 ivory Hardness test at 125 °C Glow-wire test with 850 °C Tracking test PTI 250 Clamping body: nickel-plated brass Wire protection: phosphor bronze Clamping screws: steel, zinc-plated and dichromated

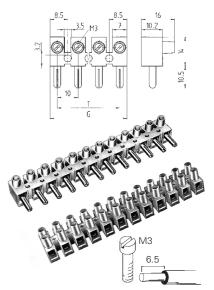
Permanent temperature 100 °C Permanent temperature 130 °C accord. to UL 746 B Tracking resistance accord. to DIN IEC 112 CTI > 600.

Terminals with wire protection DS are fitted with a wire protection guard inside the clamping body, which prevents damage to the connected wire. All parts are captive in the insulating housing. The clamping screws are secured against loosening and provide vibration-proof connections. The terminal strips are supplied with the clamping screws in the "open" position.

EN 60998-1/-2-1 (fixed position) EN60335-1/DIN VDE 0700 T1



Type 6 E 4 mm² with DS: up to 2.5 mm²/fine-stranded 400 V; 24 A; 1.0 - 2.5 mm²



Male terminal strip Type 6 ES

without wire protection

Type 6 E

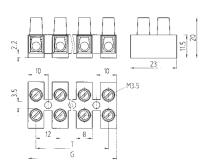
Female terminal strip without wire protection

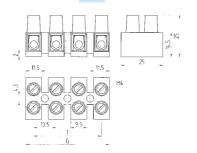
4 mm²

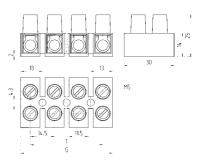
AC 400 V; 10 A;

1 - 1.5 mm²/1 - 2.5 mm^{2*)}

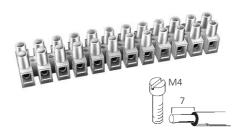
approvals		₾\$ 🚣	<u>~ @ D</u> (P	(\$),	SEV	91/		
	Poles	G T	Type	Part no. S	td. pack	G	Т	Туре	Part no. S	td. pack
without wire protection	1	7 –	6 E/ 1	21.310.0153.0	4000	7	_	6 ES/ 1	22.310.0153.0	100
UL ratings:	2	17 10	6 E/ 2	21.310.0253.0	1500	17	10	6 ES/ 2	22.310.0253.0	100
AWG no. 20-12 20 A (6 E)	3	27 20	6 E/ 3	21.310.0353.0	1500	27	20	6 ES/ 3	22.310.0353.0	100
22-14	4	37 30	6 E/ 4	21.310.0453.0	1000	37	30	6 ES/ 4	22.310.0453.0	100
Female terminal strip) 22-8 40 A (10 E)	5	47 40	6 E/ 5	21.310.0553.0	500	47	40	6 ES/ 5	22.310.0553.0	100
22-12 20 A (10 E DS)	6	57 50	6 E/ 6	21.310.0653.0	500	57	50	6 ES/ 6	22.310.0653.0	100
22-8 50/65 A (16 E)-field/factory wiring 22-10 30/40 A (16 E DS)-field/factory wiring	7	67 60	6 E/ 7	21.310.0753.0	50	67	60	6 ES/ 7	22.310.0753.0	50
20-4 70 A (20 E)	8	77 70	6 E/ 8	21.310.0853.0	50	77	70	6 ES/ 8	22.310.0853.0	50
300 V	9	87 80	6 E/ 9	21.310.0953.0	50	87	80	6 ES/ 9	22.310.0953.0	50
(600 V with PVC insulating spacer)	10	97 90	6 E/10	21.310.1053.0	50	97	90	6 ES/10	22.310.1053.0	50
	12	117 110	6 E	21.310.1253.0	250	117	110	6 ES	22.310.1253.0	50
						Fema	ale te	rminal str	rip without wire pro	otection
with wire protection (DS)	1	7 –	6 E/ 1 DS	21.311.0153.0	4000	7	_	6 E/ 1	99.261.3521.9	200
	2	17 10	6 E/ 2 DS	21.311.0253.0	1500	17	10	6 E/ 2	99.262.3521.9	100
CSA ratings:	3	27 20	6 E/ 3 DS	21.311.0353.0	1500	27	20	6 E/ 3	99.263.3521.9	100
AWG no. 22-14 20 A (6 E, 6 E DS))	4	37 30	6 E/ 4 DS	21.311.0453.0	1000	37	30	6 E/ 4	99.264.3521.9	100
22-14 20 A (6 ES, 6 E Female terminal strip)	5	47 40	6 E/ 5 DS	21.311.0553.0	500	47	40	6 E/ 5	99.265.3521.9	500
22-12 25 A (10 E, 10 E DS)	6	57 50	6 E/ 6 DS	21.311.0653.0	500	57	50	6 E/ 6	99.266.3521.9	100
20-10	7	67 60	6 E/ 7 DS	21.311.0753.0	50	67	60	6 E/ 7	99.267.3521.9	50
300 V (600 V with PVC insulating spacer) – with insulating spacer and fastening screws	8	77 70	6 E/ 8 DS	21.311.0853.0	50	77	70	6 E/ 8	99.268.3521.9	50
from insulating material 800 V 6 E (DS)	9	87 80	6 E/ 9 DS	21.311.0953.0	50	87	80	6 E/ 9	99.269.3521.9	
 with insulating spacer and fastening screws from insulating material 1000 V 10 E (DS), 16 E (DS), 	10	97 90	6 E/10 DS	21.311.1053.0	50	97	90	6 E/10	99.270.3521.9	50
20 E (DS) – 1pole version (without own fastening	12	117 110	6 E DS	21.311.1253.0	250	117	110	6 E	99.272.3521.9	50
device) no VDE approval										
20 E, 20 EDS: 18-6 AWG, 65 A, 600 V - no spacer required										
Accessories										
Jumper bars E-Cu	2		VB 11/1/2	07.250.0227.0	100					
	3		VB 11/1/3	07.250.0327.0	100					
	6	52.8	VB 11/1/6	07.250.0627.0	50					
	12	112.8	VB 11/1/12	07.250.1027.0	50					
Insulating spacer PVC polycarbonate-yellow										
for higher voltages 1000 mm		1000.0		07.470.1380.0	1					
Wire guard Polycarbonat-yellow	2 –	20.5	LH GE/2	07.470.2256.0	100					
	12	120	LH GE/12	07.470.3256.0	10	*) flex	ible w	ire/rigid wi	re	













Type 10 E

6 mm²

Type 16 E

10 mm²

Type 20 E

16 mm²

with DS: up to 4 mm²/fine-stranded 500 V; 32 A;

h DS: up to 4 mm²/fine-stranded $\frac{1.5-4 \text{ mm}^2}{500 \text{ V}}$; 41 A; $\frac{2.5-6 \text{ mm}^2}{500 \text{ V}}$; 500 V; 57 A; $\frac{3.5-4 \text{ mm}^2}{500 \text{ V}}$; 4.0 – 10 mm²

O'E (\$ 4	<u> </u>	9<i>L</i>R9 2(11)	₿		S EV	(((((((((((((((((((91 (B		OE (\$ 250	√ ®© ¶	•	
G	Т	Туре	Part no. St	d. pack	G	Т	Туре	Part no. S	d. pack	G	Т	Туре	Part no. St	d. pack
8	_	10 E/ 1	21.330.5153.0	2000	9.5	-	16 E/ 1	21.340.5153.0	200	11.5	_	20 E/ 1	21.340.3153.0	200
20	12	10 E/ 2	21.330.5253.0	1000	23	13.5	16 E/ 2	21.340.5253.0	100	26	14.5	20 E/ 2	21.340.3253.0	100
32	24	10 E/ 3	21.330.5353.0	500	36.5	27	16 E/ 3	21.340.5353.0	50	40.5	29	20 E/ 3	21.340.3353.0	50
44	36	10 E/ 4	21.330.5453.0	250	50	40.5	16 E/ 4	21.340.5453.0	50	55	43.5	20 E/ 4	21.340.3453.0	50
56	48	10 E/ 5	21.330.5553.0	250	63.5	54	16 E/ 5	21.340.5553.0	50	69.5	58	20 E/ 5	21.340.3553.0	50
68	60	10 E/ 6	21.330.5653.0	250	77	67.5	16 E/ 6	21.340.5653.0	50	84	72.5	20 E/ 6	21.340.3653.0	50
80	72	10 E/ 7	21.330.5753.0	250	90.5	81	16 E/ 7	21.340.5753.0	40	98.5	87	20 E/ 7	21.340.3753.0	50
92	84	10 E/ 8	21.330.5853.0	200	104	94.5	16 E/ 8	21.340.5853.0	40	113	101.5	20 E/ 8	21.340.3853.0	50
104	96	10 E/ 9	21.330.5953.0	200	117.5	108	16 E/ 9	21.340.5953.0	20	127.5	116	20 E/ 9	21.340.3953.0	20
116	108	10 E/10	21.330.6053.0	200	131	121.5	16 E/10	21.340.6053.0	20	142	130.5	20 E/10	21.340.4053.0	20
140	132	10 E	21.330.6253.0	100	158	148.5	16 E	21.340.6253.0	20	171	159.5	20 E	21.340.4253.0	20
8	-	10 E/ 1 DS	21.331.5153.0	2000	9.5	-	16 E/ 1 DS	21.341.5153.0	200	11.5	-	20 E/ 1 DS	21.341.3153.0	200
20	12	10 E/ 2 DS	21.331.5253.0	1000	23	13.5	16 E/ 2 DS	21.341.5253.0	100	26	14.5	20 E/ 2 DS	21.341.3253.0	100
32	24	10 E/ 3 DS	21.331.5353.0	500	36.5	27	16 E/ 3 DS	21.341.5353.0	50	40.5	29	20 E/ 3 DS	21.341.3353.0	50
44	36	10 E/ 4 DS	21.331.5453.0	250	50	40.5	16 E/ 4 DS	21.341.5453.0	50	55	43.5	20 E/ 4 DS	21.341.3453.0	50
56	48	10 E/ 5 DS	21.331.5553.0	250	63.5	54	16 E/ 5 DS	21.341.5553.0	50	69.5	58	20 E/ 5 DS	21.341.3553.0	50
68	60	10 E/ 6 DS	21.331.5653.0	250	77	67.5	16 E/ 6 DS	21.341.5653.0	50	84	72.5	20 E/ 6 DS	21.341.3653.0	50
80	72	10 E/ 7 DS	21.331.5753.0	250	90.5	81	16 E/ 7 DS	21.341.5753.0	40	98.5	87	20 E/ 7 DS	21.341.3753.0	50
92	84	10 E/ 8 DS	21.331.5853.0	200	104	94.5	16 E/ 8 DS	21.341.5853.0	40	113	101.5	20 E/ 8 DS	21.341.3853.0	50
104	96	10 E/ 9 DS	21.331.5953.0	200	117.5	108	16 E/ 9 DS	21.341.5953.0	20	127.5	116	20 E/ 9 DS	21.341.3953.0	20
116	108	10 E/10 DS	21.331.6053.0	200	131	121.5	16 E/10 DS	21.341.6053.0	20	142	130.5	20 E/10 DS	21.341.4053.0	20
140	132	10 E DS	21.331.6253.0	100	158	148.5	16 E DS	21.341.6253.0	20	171	159.5	20 E DS	21.341.4253.0	20
							VB16 E/2	07.256.8227.0	50					
3	Opol.	VB 9786 M	07.253.0027.0	10		30pol.	VB 16 E/M	07.256.8027.0	10					
100			07.471.1380.0	50	100			07.472.1380.0	10	100			07.473.1380.0*) 10
										*) CSA	does ı	not require f	or 20 E, 20 EDS, 60	0 V ratings
					-					-				

Marking accessories for divisible terminal strips EUROPA

Material:

White, roughened plastic, 0.8 mm thick Permanent temperature up to 70 °C.

Special plates to mark the terminals of clamping, solder and pluggable terminal strips are available. They can be marked before or after mounting or wiring of the terminals by using special ink Pelikan No. 32 or felt-tip pen "Feinmarker 23" by Faber Castell, or ink pen "Foliograph" by Riepe Werk Hamburg. Or they can be sealed with waterproof stamp color Pelikan type 24.



We can also supply marked plates with normal marking for larger quantities.

Prices upon request:

Suitable for types	Poles	Type	Part no.	Std. pack	Suitable for types	Type	Part no.	Std. pack
	2	8130/ 2 BZ	04.033.0080.0	100		10 E/ 2 BZ	04.070.0280.0	100
	3	8130/ 3 BZ	04.033.0180.0	100		10 E/ 3 BZ	04.070.0380.0	100
	4	8130/ 4 BZ	04.033.0280.0	100		10 E/ 4 BZ	04.070.0480.0	100
4 E	5	8130/ 5 BZ	04.033.0380.0	100	10 E	10 E/ 5 BZ	04.070.0580.0	100
	6	8130/ 6 BZ	04.033.0480.0	100		10 E/ 6 BZ	04.070.0680.0	100
	12	8130/12 BZ	04.033.1080.0	100		10 E/12 BZ	04.070.1280.0	100
	1 meter	8130/ MBZ	04.033.1180.0	1		10 E/MBZ	04.070.1380.0	1
	2	8006/ 2 BZ	04.030.0080.0	100		10 E/ 2 DBZ	04.071.0280.0	100
	3	8006/ 3 BZ	04.030.0180.0	100		10 E/ 3 DBZ	04.071.0380.0	100
	4	8006/ 4 BZ	04.030.0280.0	100	10 E	10 E/ 4 DBZ	04.071.0480.0	100
6 E	5	8006/ 5 BZ	04.030.0380.0	100	with marking	10 E/ 5 DBZ	04.071.0580.0	100
	6	8006/ 6 BZ	04.030.0480.0	100	surface on both	10 E/ 6 DBZ	04.071.0680.0	100
	12	8006/12 BZ	04.030.1080.0	100	sides	10 E/12 DBZ	04.071.1280.0	100
	1 meter	8006/MBZ	04.030.1180.0	1		10 E/MDBZ	04.071.1380.0	1
	2	8016/ 2 BZ	04.080.0080.0	100		16 E/ 2 BZ	04.090.0280.0	100
	3	8016/ 3 BZ	04.080.0180.0	100		16 E/ 3 BZ	04.090.0380.0	100
	4	8016/ 4 BZ	04.080.0280.0	100		16 E/ 4 BZ	04.090.0480.0	100
20 E	5	8016/ 5 BZ	04.080.0380.0	100	16 E	16 E/ 5 BZ	04.090.0580.0	100
	6	8016/ 6 BZ	04.080.0480.0	100		16 E/ 6 BZ	04.090.0680.0	100
	12	8016/12 BZ	04.080.1080.0	100		16 E/12 BZ	04.090.1280.0	100
	1 meter	8016/MBZ	04.080.1180.0	1		16 E/MBZ	04.090.1380.0	1

terminals appliance TERMINALS C

Material:

Insulating parts: glazed porcelain or melamine type 150, tracking resistant Clamping body: nickel-plated brass; Wire protection: phosphor bronze; Clamping screws: steel, zinc-plated and

dichromated

Terminals with wire protection DS are fitted with a wire protection guard inside the clamping body, which prevents damage to the connected wire.

Temperature range: -40 °C → +150 °C



	Poles	mm²	Туре	Part no. St	d. pack	L	. W	Н	Distance Ø, Mount. holesFasten.	screws DIN 84
Lighting terminals	1		547	14.100.0170.0	300	22	2 10	15		
Dimensions in mm	2	2.5	548	14.100.0270.0	200	22	18	15		
	3		549	14.100.0370.0	100	25	5 22	15		
675										
M3										
669										
Insulating part: Glazed porcelain Wire strip length: 6 mm										
DIN VDE 0110 (position not fixed)										
400 V/2.5 kV/1 250 V/2.5 kV/2										
	-					-				261

Appliance terminals Appliance TERMINALS COMMITTEE TERMINALS

Material:

Insulating parts: glazed porcelain or melamine type 150, tracking resistant Clamping body: nickel-plated brass; Wire protection: phosphor bronze; Clamping screws: steel, zinc-plated and

dichromated

Terminals with wire protection DS are fitted with a wire protection guard inside the clamping body, which prevents damage to the connected wire.

Temperature range

for porcelain: $-40 \,^{\circ}\text{C} \rightarrow +150 \,^{\circ}\text{C}$



	Poles	mm ²			td. pack	L	W	Н	Distance	Ø, Mount. holesF	asten. screws DIN
Appliance terminal with mounting hole	2		1032	14.200.0270.0	100	24			-		
Dimensions in mm	2		1032 DS	14.201.0270.0	100	24			-		
M3	2		1032 M 3,5	14.200.1270.0	100	38			13		
5 M3.5						38	20	16		4.5	M4
Insulating part: Glazed porcelain	3		1033	14.200.0370.0	50	38			13		
Wire strip length: 6 mm DIN VDE 0110 (position not fixed)	3	2.5	1033 DS	14.201.0370.0	50						
400 V/4 kV/2	3		1033 M 3,5	14.200.1370.0	50						
000						39			_		
M3 = 10 A	4		1033 A	14.200.0470.0	50	39			-		
M3.5 = 16 A	4		1033 A DS	14.201.0470.0	50						
	4		1033 M 3,5	14.200.1470.0	50						
Appliance terminal accord. to DIN 46284	2			14.210.0270.0	100	20			_		
.,	2			14.211.0270.0	100	20			_		
Insulating part: Glazed porcelain Wire strip length: 6 mm DIN		2.5	2 0 0111 40204 01	14.211.0270.0	100	21	18			3.3	M3
VDE 0110 (fixed position)	3	2.0	2 DINI 46204 CT	14.210.0370.0	100	34	10		12.5	3.3	IVIS
400 V/6 kV/3	3			14.210.0370.0	100	34			12.5		
	3		3 D DIN 40204 ST	14.211.0370.0	100	34			12.5		
Appliance terminal with mounting hole and	2	2.5	1031	14.220.0270.0	100	24			_		
base rail	3		1029	14.220.0370.0	50	36	25	18	13	4.5	M4
2000 1011	2	6	1027	14.230.0270.0	30	36	36	28	_	5.8	M5
M3 (2.5 mm²) M5 (6 mm²)	_							20		0.0	IVIO
Insulating part: Glazed porcelain											
Wire strip length: 6 mm											
DIN VDE 0110 (position not fixed) 400 V/6 kV/3											
400 V/0 KV/3											
Appliance terminal 4pole	4	2.5	1033 A P KR	14.290.0440.0	100	40	20 1	18.5	-	5.3	M5
00	4	2.5	1033 A P DS KR	14.291.0440.0	100						
M3											
10											
Insulating part: melamine type 150,											
tracking resistant											
Wire strip length: 6 mm DIN VDE 0110 (fixed position)											
400 V/6 kV/3											

Modular terminals for mounting rail 10 x 2.5 mm

with insulating housing from unglazed steatite

	DIN VDE 0110	Wire strip length	Type	Part no.	Std. pack	L	В	mm ²	solid/strand	ed/fine-strande	d with ferru	eCl.screv
Modular terminal without wire protection	250 V/4 kV/3	7	1038 A	30.400.0675.0	125	19	8.5 ±	0.3	6	4	2.5	М3
Dimensions in mm	250 V/4 kV/3	10	1038 B	30.400.1075.0	100	24	12.5 ±	0.35	10	10	6	M4
	400 V/6 kV/3	10	1038 C	30.400.1675.0	75	28	15 ±	0.4	16	10	10	M5
Modular terminal with wire protection	250 V/4 kV/3	6	1038 A DS	30.401.0475.0	125	19	8.5 ±	0.3	4	4	1.5	M3
Example 1	250 V/4 kV/3	7		30.401.0675.0	100		12.5 ±		6	6	2.5	M4
8	400 V/6 kV/3	7		30.401.1075.0	75		15 ±		10	10	4	M5
Accessories	1											
Mounting rail: steel, galv. zinc-plated	d, L = 1 m		1039 M	98.060.0000.0	50							
10 x 2.5 mm			4000111	05 500 0705 5	050							
End bracket Distance ring: outside Ø 7, inside Ø			1039 W 1036 R	05.522.0725.0 05.590.3121.0	250 500							

Plug/screw terminal strips

Material:

Insulating housing: Polyamide 6.6, tracking resistant

- Clamping body with tab connector:
 nickel-plated brass for KL 20 and KL 30 –
 for KL 24 tin-plated steel

Wire protection: phosphor bronze, nickel-plated Clamping screws: steel, zinc-plated and dichromated

Insulating part:

UL-ratings

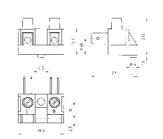
CSA ratings

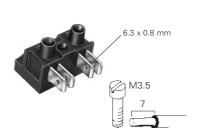
Approvals

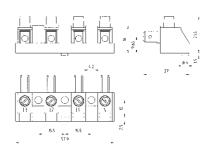
at 125 °C Hardness test with 850 °C Glow-wire test Tracking test PTI 600

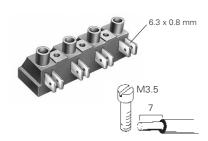
Temperature range: $-40 \,^{\circ}\text{C} \rightarrow +100 \,^{\circ}\text{C}$

EN 60998-1/-2-1; EN 61210; (fixed position)









Type KL 20/2 PA

2pole

Type KL 20/4 PA

4pole

AC 400 V; */** A;

***/2 x (6.3 x 0.8 mm)

AC 400 V; */** A;

***/2 x (6.3 x 0.8 mm)

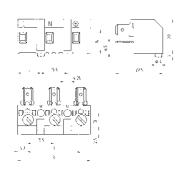
300 V; 16 A;

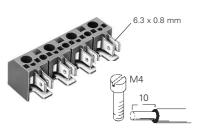
No. 22 - 14 AWG

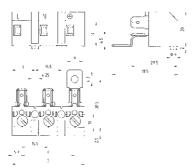
300 V; 16 A;

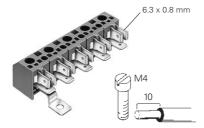
No. 22 - 14 AWG

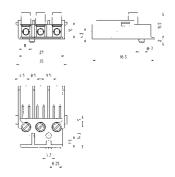
	Poles	Type	Part no.	Std. pack	Type	Part no.	Std. pack
without wire protection	2	KL 20/2 PA	29.500.0253.0	750			
	3						
	4				KL 20/4 PA	29.500.0353.0	50
with wire protection (DS)							
	2	KL 20/2 DS PA	29.500.1253.0	750			
	3						
	4				KL 20/4 DS PA	29.500.1353.0	50
	5						
* 24 A screw clamp terminal with 2.5 mm² conductor							
** 12 A tab connector with 2.5 mm² conductor							
*** 1 – 2.5 mm² rigid/flexible							
1 – 4 mm² rigid							
CCA/DE							
33.,32							













Type KL 24

AC 400 V; */** A; 300 V; 16 A; 300 V; 20 A;

***/3 x (6.3 x 0.8 mm) No. 22 – 12 AWG

2 to 5pole

No. 22 – 14 AWG

AC 400 V; */** A;

Type KL 24 SL

***/3 x (6.3 x 0.8 mm) No. 22 – 14 AWG

3, 5pole

300 V; 20 A;

Type KL 30/3 PA

AC 400 V; */** A; 150 V; 10 A; 150 V; 10 A;

3pole ***/2 x (4.8 x 0.8 mm) No. 22 – 12 AWG No. 22 – 14 AWG

<u>∰</u> (\$) ⊚ (D)	N F K S 71 (F		♠ (\$) ◎ ® (D (N)) (F) KEMA (S) 911 (G		A B D N E	19 17 ©	
Туре	Part no.	Std. pack	Туре	Part no.	Std. pack	Туре	Part no.	Std. pack
KL 24/2	29.500.9253.0	1000						
			KL 24/3 SL	29.502.9353.0	500	KL 30/3 PA	29.500.3053.0	500
KL 24/3	29.500.9353.0	500				KL 30/3 DS PA	29.500.4053.0	500
KL 24/4	29.500.9453.0	500						
KL 24/5	29.500.9553.0	250	KL 24/5 SL	29.502.9553.0	250			
Dala dasia	nation		Pole designa	ı+i o.p				
Pole desig 2pole = L, N,			3pole = L, N, €					
3pole = L, N,	(4)		5pole = L, N, © 5pole = L3, L2,					
5pole = L3, L	.2, L1, N, ⊕		0000 - 20, 22,	21,14, 9				
Dimensions			Dimensions					
	G		Poles T G	_				
2 15.5			3 31 42.5	5				
3 31	42.5		5 62 73.5	5				
4 46.5 5 62	58 73.5							
0 102	70.0							



Material:

Insulating part: melamine type 150, tracking resistant

Clamping body and cover fastening screws:

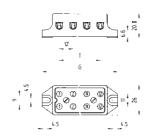
nickel-plated brass Clamping screws: steel, zinc-plated and

dichromated

Wire protection: phosphor bronze

 $T = (Number of poles -1) \times 12$

G = T + 30







with DS up to 2.5 mm²/fine-stranded

EN 60998-1/-2-1 Rated cross section

Rated cross section Approvals

solid fine stranded

500 V; 32 A; 4 mm^2 $2.5 \; mm^2$

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ľΞ	
10	

(ppi o vais			(5)		
	Poles	G	Туре	Part no.	Std. pack
with female terminals and	2	42	KBD 1/ 2 KR	28.121.0240.0	50
wire protection	3	54	KBD 1/ 3 KR	28.121.0340.0	40
	4	66	KBD 1/ 4 KR	28.121.0440.0	30
	5	78	KBD 1/ 5 KR	28.121.0540.0	25
	6	90	KBD 1/ 6 KR	28.121.0640.0	20
	7	102	KBD 1/ 7 KR	28.121.0740.0	
	8	114	KBD 1/ 8 KR	28.121.0840.0	20
	10	138	KBD 1/10 KR	28.121.1040.0	15
	12	162	KBD 1/12 KR	28.121.1240.0	15

Distribution terminal strips for plug and screw connections

Material:

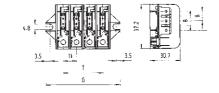
Insulating part: Polyamid 66 ivory Permanent temperature 100 °C Permanent temperature 125 °C accord. to UL 746 B (All indicated temperatures include the power load caused by the operation)

Tracking resistance accord. to DIN IEC 112. CTI > 600 Hardness test at 125 °C Glow-wire test with 850 °C Tracking test PTI 600

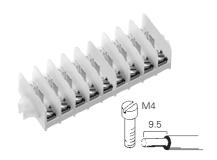
- with insulating spacer 400 V
- ** 24 A screw clamp terminal with 2.5 mm² conductor 12 A tab connector with 1.5 mm² conductor

EN 60998-1/-2-1; EN 61210 (fixed position)

CSA: 300 A, 20 A, 22 - 12 AWG







Distribution terminal strip Type KL 17 N/*.../

* indicate the number of poles, e.g. KL 17 N/5/ AC 230/400 V/2; **A;

 $1 - 2.5 \text{ mm}^2/5x (6.3 \times 0.8 \text{ mm})$

for plug connections

Distribution terminal strip for plug and screw connections Type KL 17 N/*.../K

* indicate the number of poles, e.g. KL 17 N/5/K AC 230/400 V/2; **A;

 $1 - 2.5 \text{ mm}^2/5x (6.3 \times 0.8 \text{ mm})$

				ı – 2.5 mm	1-/5x (6.3 x 0.8 mm)		1 ² /5X (6.3 X 0.8 mm
			-			with clamping spring and scre	
	Poles	G	Туре	Part no.	Std. pack	Type Part no.	Std. pack
5 tab connectors 6.3 x 0.8 mm	1	29.8		29.608.0153.0	120	29.608.3153.0	120
tin-plated steel	2	40.8		29.608.0253.0	80	29.608.3253.0	80
	3	51.8		29.608.0353.0	60	29.608.3353.0	60
	4	62.8		29.608.0453.0	40	29.608.3453.0	40
	5	73.8		29.608.0553.0	40	29.608.3553.0	40
	6	84.8		29.608.0653.0	30	29.608.3653.0	30
	7	95.8		29.608.0753.0	30	29.608.3753.0	30
	8	106.8		29.608.0853.0	20	29.608.3853.0	20
	9	117.8		29.608.0953.0	20	29.608.3953.0	20
	10	128.8		29.608.1053.0	20	29.608.4053.0	20
	11	139.8		29.608.1153.0	20	29.608.4153.0	20
	12	150.8		29.608.1253.0	20	29.608.4253.0	20
	13	161.8		29.608.1353.0	10	29.608.4353.0	10
	14	172.8		29.608.1453.0	10	29.608.4453.0	10
	15	183.8		29.608.1553.0	10	29.608.4553.0	10
	16	194.8		29.608.1653.0	10	29.608.4653.0	10
	17	205.8		29.608.1753.0	10	29.608.4753.0	
	18	216.8		29.608.1853.0	10	29.608.4853.0	10
	19	227.8		29.608.1953.0	10	29.608.4953.0	
	20	238.8		29.608.2053.0	10	29.608.5053.0	10
	21	249.8		29.608.2153.0	10	29.608.5153.0	
Accessories	22	260.8		29.608.2253.0	10	29.608.5253.0	
Insulating spacer: cardboard 2061,	23	271.8		29.608.2353.0	10	29.608.5353.0	
1 to	24	282.8		29.608.2453.0	10	29.608.5453.0	10
24pole							
Marking plate: PVC							
1 to							
24pole							
				07.450.0187.0		07.450.0187.0	
				07.450.2487.0		07.450.2487.0	
				07.451.0180.0		07.451.0180.0	
				07.451.2480.0	100	07.451.2480.0	100

Mains connectors for appliance wiring 3, 5 and 6pole with screw connection

Material:

Insulating housing: Polyamide, fiberglass reinforced Clamping body: tin-plated steel Clamping screws and clamping spring: zinc-plated steel Switchable connecting link E-Cu

Ambient temperature:

T 160 ... – 5 °C

Continuous maximum temperature: 125 °C

Insulating part:

at 210 °C Hardness test with 850 °C Glow-wire test PTI 400 Tracking test

Air and creepage distances accord. to DIN EN 60335-1/VDE 0700 part 1

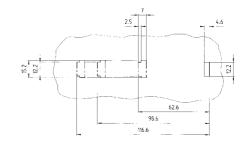
VDE with Statement of Conformity

EN 60998-1/-2-1; EN 61210; (fixed position) UL-ratings field/factory wiring

CSA ratings

AC 400 V; 41 A; 250 V; 40 A; 300 V Gr.B/150 V Gr.C; 40 A; No. 8/10 AWG

1.5 - 6 mm² No. 8 - 14/10 AWG



Cut-out 3, 5, 6pole for *) "latching foot versions" Metal sheet 1.5 mm thick

Approvals		△ (5) ○ (0) (N)			
	Poles	Type		Std. pack	
M5/M6	3	KL 58/3/1	29.130.1353.0	200	
	5	KL 58/5/1 3 links used as bridge between	29.130.1553.0 s a n poles 3 and 4	100	7.5, 18
	6	KL 58/6/1 3 links used as bridge between	29.130.1653.0 s a n poles 4 and 5	100	T (mm) G 3pole 36 81 5pole 72 117 6pole 90 135
	3	KL 58/3 R/1*	29.130.2353.0	200	
	5	KL 58/5 R/1* 3 links used as bridge between	29.130.2553.0 s a n poles 3 and 4	100	18 _ T
	6	KL 58/6 R/1* 3 links used as	29.130.2653.0	100	T (mm) G 3pole 36 66.5 5pole 72 102.5 6pole 90 120.5

Mains connectors for appliance wiring 3, 5 and 6pole with 3 tab connectors 6.3 x 0.8 mm per pole

Material:

Insulating housing: Polyamide, fiberglass reinforced Clamping body: nickel-plated steel Clamping screws and clamping spring: zinc-plated steel Switchable connecting link E-Cu

Ambient temperature:

T 160 ... – 5 °C

Continuous maximum temperature: 125 °C

Insulating part:

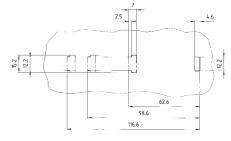
Hardness test at 210 °C
Glow-wire test with 850 °C
Tracking test PTI 400

Air and creepage distances accord. to DIN EN 60335-1/VDE 0700 part 1

- * 41 A Screw terminal with 6 mm² conductor
 ** 20 A Tab connector with 6 mm² conductor
 VDE with Statement of Conformity
- EN 60000 1/2 1: EN 61210: /fixed position

EN 60998-1/-2-1; EN 61210; (fixed position)
UL-ratings field/factory wiring
CSA ratings
Approvals





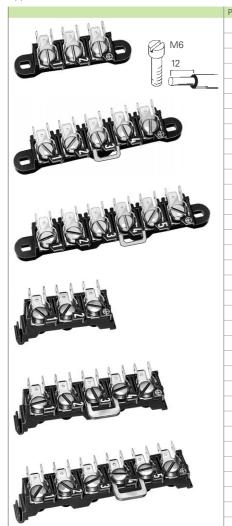
Cut-out 3, 5, 6pole for
*) "latching foot versions"
Metal sheet 1.5 mm thick

(mains side) 10 mm²

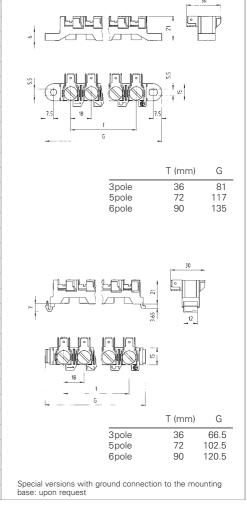
AC 400 V; */** A; 1.5 – 6 mm²/3x (6.3 x 0.8 mm) 250 V; 40 A; No. 8 - 14/10 AWG 300 V Gr.B/150 V Gr.C; 40 A; No. 8/10 AWG (\$) © ① ③ ① ⑤ ① ⑤

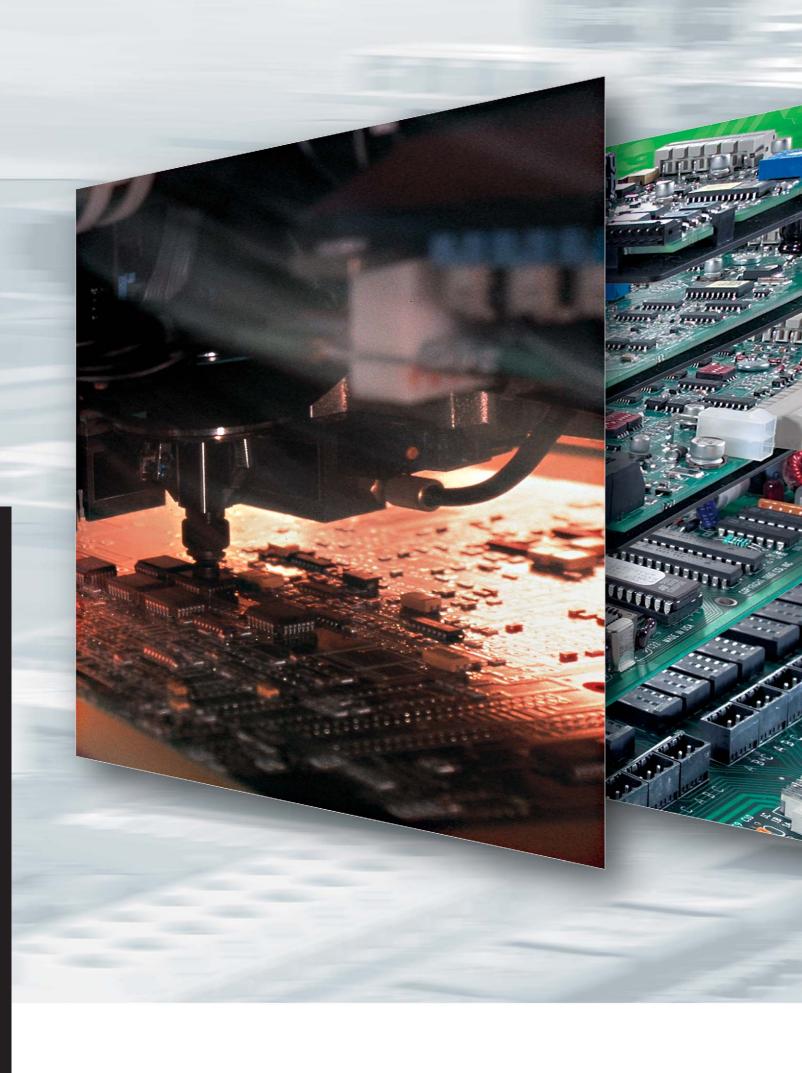
Note:

The air distance of 9.5 mm between the terminals and the mounting base must be guaranteed.



3	KL 58/3 S/1	29.131.1353.0	200	
5	KL 58/5 S/1	29.131.1553.0	100	
	3 links used as			
	bridge betwee	n poles 3 and 4		
6	KL 58 S/6 S/1	29.131.1653.0	100	
	3 links used as			
	bridge betwee	n poles 4 and 5		
3	KL 58/3 S R/1*	29.131.2353.0	200	
	I/I FO/F O D /4 ¥	00 404 0550 0	400	
5	KL 58/5 S R/1*	29.131.2553.0	100	
	3 links used as			
		n poles 3 and 4		
	bridge betwee	ii poles 3 anu 4		
6	KL 58/6 S R/1*	29.131.2653.0	100	
	NE JU/U J II/ I	29.131.2003.0	100	
	3 links used as	: a		
		n poles 4 and 5		
	bridge betwee	ii poles 4 aliu 5		







PC board connectors



All Wieland Components which require CE general certification are CE certified, and identified with the CE logo.

Pluggable PC board connectors with insulated headers, two piece design
Pluggable PC board connectors with pin strip headers, two piece design
DIN rail terminal blocks with pluggable connectors
Pluggable PC board connectors, edge card
PC board connectors, 2-tier version
PC board connectors, 3-tier version
PC board connectors, 4-tier version
Special-purpose connectors
RAST 5 connectors Feed-through modules for control cabinets Marking tags / marking tag strips

contents = 1/1/1ecom

Spacings: 3.50/3.81 mm	
Plug connectors, rising cage clamp	Page 280
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Insulated headers	Page 284
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Spacings: 5.00/5.08/7.50/7.62 mm	
Plug connectors, rising cage clamp	Page 286
Male plug with spring clamp	
connection (= inverted plug)	Page 295
Plug connectors, spring clamp	Page 294
Board to board connectors	Page 295
Insulated headers	Page 297
Pluggable TOP connector with strain relief	Page 320
Triuggable For confilector with strain relief	1 age 320
Spacings: 3.50/5.00 mm Compression screw clamp	Page 316
Spacing: 3.50 mm Spring clamp	Page 324
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Spacing: 5.00 mm	
Feed-through DIN rail terminal blocks with pluggable connectors	Page 310
7 7 7	
Spacing: 3.50 mm Rising cage clamp	Page 328
Spacing: 5.00 mm Spring clamp	Page 330
, , ,	
Spacings: 3.50/3.81 mm	
Rising cage clamp	Page 336
Spacings: 5.00/5.08 mm	
Rising cage clamp	Page 286
Spring clamp	Page 292
Spacings: 6.35 mm	Page 355
Spacings: 7.50/7.62 mm	
Rising cage clamp	Page 288
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Spacings: 10.00/10.16 mm	
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Spacings: 5.00/5.08 mm	D 004
Rising cage clamp	Page 364
Charings: E 00/E 09 mm	
Spacings: 5.00/5.08 mm Rising cage clamp	Daga 270
Rising cage clamp	Page 370
Spacing: 5.00 mm	
Rising cage clamp	Page 373
Thomas dago olamp	- ago 070
Spacing: 5.08 mm	
Feed through block	Page 378
PCB plunger disconnect block	Page 378
Fused feed through terminal block	Page 379
AS-I connector – IDC Technology	Page 392
7.0 1 controctor 120 reciliology	1 age 002
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Pluggable PC board connectors with insulated headers, two piece design

wiecon PCB

			Page 298	Page 301	Page 299	Page 299	Page 301	Page 297	Page 300	Page 297	Page 298
Spacing: 5.00/5.08 mm		pacing:	5.00/5.08 8113 S/W	7.50/7.62 8313 S/W	5.00/5.08 8113 S/WOF	5.00/5.08 8113 S/WF	7.50/7.62 8313 S/WF	5.00/5.08 8113 S/G	7.50/7.62 8313 S/G	5.00/5.08 8113 S/GOF	5.00/5.08 8113 S/GF
Spacing: 7.50/7.62 mm			8213 S/W	8413 S/W	8213 S/WOF	8213 S/WF	8413 S/WF	8213 S/G	8413 S/G	8213 S/GOF	8213 S/GF
		Poles	2 - 24	2 – 12	2 – 24	2 – 22	2 – 12	2 – 24	2 - 12	2 – 24	2 – 22
Page 291		2 – 24			•			•		•	
8113 BK	5.00		8113		8113			8113		8113	
Page 286 8113 B 8213 B	5.00	2 – 24	•		•			•		•	
Page 292 8113 BFK 8213 BFK	5.00		•		•	•		•		•	
Page 287											
8213 B/S	5.08	2 – 24						8213		8213	
Page 288		2 – 22									
8313 B				•					•		
Page 286 8113 B/F 8213 B/F	5.00					•					
Page 288 8313 B/F 8413 B/F	7.50						•		14		
Page 289 8113 B/VL 8213 B/VL	5.00		•		•			•			
Page 289 8113 B/VR 8213 B/VR	5.00		•		•			•		•	
Page 290		2 – 12		•						0	
	-										
Page 290 8413 B/VR		2 – 24		•					•		VA
Page 296 8113 B/TOP 8213 B/TOP	5.00	2 – 24	•		•			•		•	
Page 295		2 – 24	•		•			•		•	105
8213 BL/G											
Page 295 8213 BL/W		2 – 24	•		•			•		•	

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7.50/7.62 8313 S/GF 8413 S/GF	5.00/5.08 8113 S/S 8213 S/S	5.00/5.08 8113 S/S1 8213 S/S1	5.08 8213 SUFK	5.00/5.08 8113 SE/W 8213 SE/W	5.00/5.08 8113 SE/G 8213 SE/G	5.08 8213 S/ DFWW	5.08 8213 S/ DFWWM	5.08 8213 S/ DFLS	5.08 8213 S/ DFLSM	5.00/5.08 8113 SEG/W 8213 SEG/W	5.00/5.08 8113 SEG/G 8213 SEG/G
2 - 12	2 – 24	2 – 24	2 - 12 (24)	2 – 24 snap together	2 – 24 snap together	2 - 24	2 – 22 with nut	2 – 24	2 – 22 with nut	2 – 24	2 – 24
	8113	8113		8113	9 8113					• 8113	8113
	•	•	• 8213	•	•	•		•		•	•
	•	•	8213	•	•	•	•	• 8213	•	•	•
	8213	8213	•		8213	•		•	6 8213		8213
E R	7.										
	01	S	8213				•		•	•	•
91											
))•[8213	•	•	•	•	• 8213	• 8213	•	•
		•	8213	•	•	•	•	• 8213	• 8213	•	•
		3									
CHE	RU	10/	7-C	2							
Jr.	14	•	8213	•	•	•		•		•	•
	•	•	8213							• 8213	8213
			8213								275

PC board connectors with DIN rail terminal blocks pluggable

wiecon PCB

			Page 310	Page 310	Page 311	Page 312	Page 312	Page 308
							-	
	Spacin	g:	5.00	5.00	7.50	5.00	7.50	5.00
Spacing: 5.00/7.50 mm								
			2 – 24 snap together	2 - 24 snap together	2 – 12 snap together	2 – 24 snap together	2 – 12 snap together	2 – 24 snap together
Page 286 8113 B	5.00	2 – 24	•	•		•		
Page 288 8313 B	7.50	2 – 12			•		•	
Page 289 8113 B/VL	5.00	2 – 24	•	•		•		
Page 289 8113 B/VR	5.00	2 – 24	•	•		•		
Page 296 8113 B/TOP	5.00	2 – 24	•	•		•		
Page 292 8113 BFK	5.00	2 – 24	•	•		•	•	~

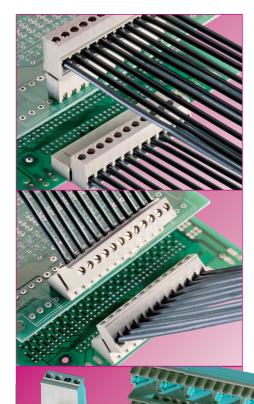


PC board connectors with insulated headers two-piece design

			Page 284	Page 285	Page 284	Page 285
Spacing: 3.81 mm Spacing: 3.50 mm	Spacin	g:	3.50/3.81 8513 S/W 8813 S/W	3.50/3.81 8513 S/WF 8813 S/WF	3.50/3.81 8513 S/G 8813 S/G	3.50/3.81 8513 S/GF 8813 S/GF
			2 – 20	2 – 20	2 – 20	2 – 20
Page 280 8513 B 8813 B	3.50 3.81	2 – 20	•		•	
Page 280 8513 B/F 8813 B/F	3.50 3.81	2 - 20		•		•
Page 282 8813 B/VR	3.81	2 - 20	• 8813		• 8813	
Page 282 8813 B/VL	3.81	2 - 20	• 8813		• 8813	
Page 283 8813 B/VRF	3.81	2 - 20		• 8813		8813
Page 283 8813 B/VLF	3.81	2 - 20		• 8813		• 8813
Page 281 8513 BFK	3.50	2 – 20	• 8513		• 8513	

Pluggable PC board connectors with insulated headers, two piece design

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Pluggable connectors provide a simple 2-piece mateable connection between an external connector and the printed circuit board.

System features

- ☐ easy-to-operate, application specific
- user-friendly pluggability
- ☐ clear, straigthforward connection
- mating direction and wire insertion for every application
- quick disconnect
- multiple pole configurations
- connection of solid and fine stranded up to 1.5 mm² and 2.5 mm² (up to 12 AWG)
- metric and inch spacing; inch spacing is indicated by a stud over the wire entry guide
- ☐ termination via rising cage clamp (screw connection)
- ☐ termination via TOP connection

Flange version

- additional screw connection of plug and insulated header preventing unintentional disconnect
- secure electrical and mechanical connection even under high mechanical stress (e.g. vibration)

Field of application

- ☐ pluggable PC board connectors simplify termination and service of PC boards
- with pre-manufactured cable harnesses, units can be adapted to the individual application without problems
- ☐ all pluggable PC board connectors can be coded without loss of pole position
- ☐ the plugs and their matching insulated headers can be interlocked
- clear markings ensure simple and correct marking

Variety of types

- ☐ 2 to 24pole
- ☐ mating orientation of the plugs horizontal and vertical to the wire entry
- plugs mate horizontal and vertical to the printed circuit board
- ☐ insulated headers with vertical and horizontal solder pins
- ☐ insulated headers with pins in 35° angle to the printed circuit board
- ☐ insulated headers with closed sides to prevent mis-mating
- open-ended insulated headers permit adjacent stacking without pole loss
- ☐ spacings: 3.81/5.00/5.08/ 7.50/7.62/10.00/10.16 mm
- ☐ two-tier headers

Coding

- ☐ protection against mis-mating via coding pieces inserted into slots in the plug and boader.
- coding without pole loss

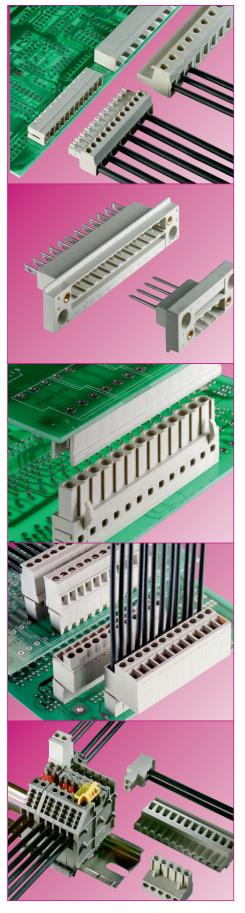
Marking

- inkjet marking directly on the plug and header with smudge-proof ink
- custom marking possible, consult factory
- ☐ clear, easily legible marking

DQS certificates for all products

- quality standard as per DIN ISO 9001
- ☐ in Development, Production, Assembly
- continuous verification of the quality standard by means of regular internal and external quality audits
- ☐ compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

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Types 8513-8813

- ☐ micro PC board connectors, 2 to 20 pole
- plug and insulated header horizontal and vertical to the printed circuit board
- ☐ total height: 11 mm, while only 8 mm above the printed circuit board
- ☐ in space-saving 3.5 and 3.81 mm spacing
- ☐ connector cross section: 1.5 mm²
- □ codable:
 - headers with coding pins
 - plug connectors with removable coding studs
- with locking screw flange

Panel mount feed through pluggables

- insulated headers mount directly to panel wall
- ☐ provide pluggable connection at panel
- ☐ header = panel mount feed through
- ☐ optional flange version for vibration secure mating
- ☐ header can be affixed with screws to the housing walls
- connection inside the housing via wire-wrap or solder connection

Inverted / board to board connectors

- ☐ board mounted female header with vertical and horizontal solder pins
- ☐ codable by means of coding pieces inserted in available slots
- ☐ interlocking flange available as accessory
- ☐ inverted plug available

TOP version

- screw connection, wire entry and mate direction all in same plane
- easy to operate in confined spaces
- ☐ with or without integrated LED

Application specific terminals

- ☐ for control systems:
 - DIN rail terminal blocks with pluggable connection at one side
 - plug connectors in 5.00 mm spacing
 - snap on to mounting rail
- ☐ DIN rail terminal blocks with pluggable connection for system 8113
- vertical plug orientation
- horizontal plug orientation

Material

Metal parts:

- ☐ made of special alloys and/or special surface platings
- ☐ minimum feed through resistance
- high corrosion resistance
- ☐ secure, consistent clamping function
- ☐ clamping body and clamping screw: made of nickel-plated brass (TOP version: zinc-plated steel, dichromated)
- □ plug contacts: tin-plated bronze
- ☐ solder pins: made from highquality copper alloy

Insulating housings:

- Polyamide 66/6 for its excellent electrical, chemical and mechanical characteristics (see section *facts* & DATA)
- □ all housings UL 94 V-0
- glass-fibre reinforcement for high dimensional stability (not available for multi-tier header and solder parts)
- colors: gray, similar to RAL 7032; black; for others consult factory

Abbreviations for plastic materials:

PA 66/6 = Polyamide 66/6

PC = Polycarbonate

PBT = Polybutylenterephthalate

Note

The information regarding cross sectional areas and connection types pertains to conductors without ferrules.

The indicated rated current complies with the maximum load of the PCB connector with connected wire of the indicated rated cross section.

The rated voltage is indicated as per DIN VDE 0110 part 1 (IEC 60 664-1) – isolation coordination for electrical material in low voltage applications – and refers to the delivered state of the PC board connectors.

Before the PC board is fitted with connectors, an appropriate printed circuit board must be selected and dimensioned accordingly (e.g. regarding tracking resistance of the printed circuit board, distances of the leads and solder joints).

Furthermore, the ambient conditions under which the device is to be used (pollution degree) must be considered. The indicated rated voltages will be valid for the complete module only if the pirnted circuit board and its connectors are correctly and carefully matched to each other.

PC board connectors, pluggable, rising cage connection, spacings: 3.50/3.81 mm



1.5 mm²

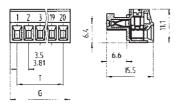
Rated cross section:

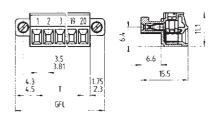
1.5 mm²

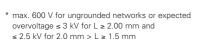
Rated current: 8 A

Connection range: 0.14 - 1.5 mm² solid / fine standed

125 V/2.5 kV/3 - Overvoltage category III 250 V/2.5 kV/2 - Overvoltage category II *690 V/2.5 kV/1 – Overvoltage category I











300 V



Type 8513 B/..., 8813 B/...

plug-in 180° to wire entry No. 30 – 16 AWG

No. 22 - 14 AWG 300 V Type 8513 B/...F, 8813 B/...F plug-in 180° to wire entry

No. 30 – 16 AWG 300 V 8 A No. 22 - 14 AWG 300 V 5 A

8 A

5 A

	Rated voltages: VI UL ratings CSA ratings	DE 01	10
	Approvals		
	Std. p	ack	GF
	Spacing: 3.50) mm	1
	1	00	17
1	1 1	$\Omega\Omega$	20

pprovals					91 👀		91. (B	
Std. pack	GFL	G	Т	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 3.50 m	m				unmarked	marked	unmarked	marked
100	17.40	7.00	3.50	2	25.640.3253.0	25.640.0253.0	25.641.3253.0	25.641.0253.0
100	20.90	10.50	7.00	3	25.640.3353.0	25.640.0353.0	25.641.3353.0	25.641.0353.0
50	24.40	14.00	10.50	4	25.640.3453.0	25.640.0453.0	25.641.3453.0	25.641.0453.0
50	27.90	17.50	14.00	5	25.640.3553.0	25.640.0553.0	25.641.3553.0	25.641.0553.0
50	31.40	21.00	17.50	6	25.640.3653.0	25.640.0653.0	25.641.3653.0	25.641.0653.0
50	34.90	24.50	21.00	7	25.640.3753.0	25.640.0753.0	25.641.3753.0	25.641.0753.0
50	38.40	28.00	24.50	8	25.640.3853.0	25.640.0853.0	25.641.3853.0	25.641.0853.0
50	41.90	31.50	28.00	9	25.640.3953.0	25.640.0953.0	25.641.3953.0	25.641.0953.0
50	45.40	35.00	31.50	10	25.640.4053.0	25.640.1053.0	25.641.4053.0	25.641.1053.0
50	48.90	38.50	35.00	11	25.640.4153.0	25.640.1153.0	25.641.4153.0	25.641.1153.0
50	52.40	42.00	38.50	12	25.640.4253.0	25.640.1253.0	25.641.4253.0	25.641.1253.0
50	55.90	45.50	42.00	13	25.640.4353.0	25.640.1353.0	25.641.4353.0	25.641.1353.0
50	59.40	49.00	45.50	14	25.640.4453.0	25.640.1453.0	25.641.4453.0	25.641.1453.0
50	62.90	52.50	49.00	15	25.640.4553.0	25.640.1553.0	25.641.4553.0	25.641.1553.0
50	66.40	56.00	52.50	16	25.640.4653.0	25.640.1653.0	25.641.4653.0	25.641.1653.0
	17	to 20pole	e upon re	quest				
Spacing: 3.81 m	m				unmarked	marked	unmarked	marked
100	18.01	8.41	3.81	2	25.620.3253.0	25.620.0253.0	25.621.3253.0	25.621.0253.0
100	21.82	12.22	7.62	3	25.620.3353.0	25.620.0353.0	25.621.3353.0	25.621.0353.0
50	25.63	16.03	11.43	4	25.620.3453.0	25.620.0453.0	25.621.3453.0	25.621.0453.0
50	29.44	19.84	15.24	5	25.620.3553.0	25.620.0553.0	25.621.3553.0	25.621.0553.0
50	33.25	23.65	19.05	6	25.620.3653.0	25.620.0653.0	25.621.3653.0	25.621.0653.0
50	37.06	27.46	22.86	7	25.620.3753.0	25.620.0753.0	25.621.3753.0	25.621.0753.0
50	40.87	31.27	26.67	8	25.620.3853.0	25.620.0853.0	25.621.3853.0	25.621.0853.0
50	44.68	35.08	30.48	9	25.620.3953.0	25.620.0953.0	25.621.3953.0	25.621.0953.0
50	48.49	38.89	34.29	10	25.620.4053.0	25.620.1053.0	25.621.4053.0	25.621.1053.0
50	52.30	42.70	38.10	11	25.620.4153.0	25.620.1153.0	25.621.4153.0	25.621.1153.0
50	56.11	46.51	41.91	12	25.620.4253.0	25.620.1253.0	25.621.4253.0	25.621.1253.0
50	59.92	50.32	45.72	13	25.620.4353.0	25.620.1353.0	25.621.4353.0	25.621.1353.0
50	63.73	54.13	49.53	14	25.620.4453.0	25.620.1453.0	25.621.4453.0	25.621.1453.0
50	67.54	57.94	53.34	15	25.620.4553.0	25.620.1553.0	25.621.4553.0	25.621.1553.0
50	71.35	61.75	57.15	16	25.620.4653.0	25.620.1653.0	25.621.4653.0	25.621.1653.0
	17	to 20pole	e upon re	quest				

PC board connectors, pluggable, spring clamp connection, spacing: 3.50 mm



Rated cross section:

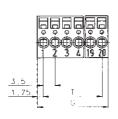
1.5 mm²

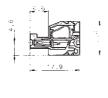
Rated current: 8 A

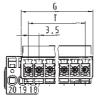
Connection range: 0.14 - 1.5 mm² solid / fine standed

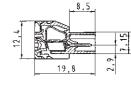
* max. 600 V for ungrounded networks or expected overvoltage \leq 3 kV for L \geq 2.00 mm and $\leq 2.5 \; kV \; for \; 2.0 \; mm > L \geq 1.5 \; mm$

125 V/2.5 kV/3 - Overvoltage category III 250 V/2.5 kV/2 – Overvoltage category II *690 V/2.5 kV/1 – Overvoltage category I



















17 to 24pole upon request

06.502.4300.0

Type 8513 BFK

No. 30 - 16 AWG No. 22 - 14 AWG **91** (P

300 V 8 A 300 V 5 A

No. 30 - 16 AWG No. 22 - 14 AWG

Type 8513 SUFK

300 V 8 A 300 V 5 A

91 (P

VDE 0110
ULratings
CSA ratings
Approvals

Accessories: Screwdriver DIN 5264 A 0.4 x 2.5

Std. pack	G	Т	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 3.50 mm	Type	8513 E	FK	unmarked	marked		
100 100 50	6.90 10.40 13.90	3.50 7.00 10.50	2 3 4	25.630.3253.0 25.630.3353.0 25.630.3453.0	25.630.0253.0 25.630.0353.0 25.630.0453.0		
50 50 50	17.40 20.90 24.40	14.00 17.50 21.00	5 6 7	25.630.3553.0 25.630.3653.0 25.630.3753.0	25.630.0553.0 25.630.0653.0 25.630.0753.0		
50 50 50	27.90 31.40 34.90	24.50 28.00 31.50	8 9 10	25.630.3853.0 25.630.3953.0 25.630.4053.0	25.630.0853.0 25.630.0953.0 25.630.1053.0		
50 50 50	38.40 41.90 45.40	35.00 38.50 42.00	11 12 13	25.630.4153.0 25.630.4253.0 25.630.4353.0	25.630.1153.0 25.630.1253.0 25.630.1353.0		
50 50 50	48.90 52.40 55.90	45.50 49.00 52.50	14 15 16	25.630.4453.0 25.630.4553.0 25.630.4653.0	25.630.1453.0 25.630.1553.0 25.630.1653.0		
17 to 24pole upon request							
Spacing: 3.50 mm	Type 8	513 SU	FΚ			unmarked	marked
100 100 50	8.40 11.90 15.40	3.50 7.00 10.50	2 3 4			25.642.3253.0 25.642.3353.0 25.642.3453.0	25.642.0253.0 25.642.0353.0 25.642.0453.0
50 50 50	18.90 22.40 25.90	14.00 17.50 21.00	5 6 7			25.642.3553.0 25.642.3653.0 25.642.3753.0	25.642.0553.0 25.642.0653.0 25.642.0753.0
50 50 50	29.40 32.90 36.40	24.50 28.00 31.50	8 9 10			25.642.3853.0 25.642.3953.0 25.642.4053.0	25.642.0853.0 25.642.0953.0 25.642.1053.0
50 50	39.90 43.40 46.90	35.00 38.50 42.00	11 12 13			25.642.4153.0 25.642.4253.0 25.642.4353.0	25.642.1153.0 25.642.1253.0 25.642.1353.0
	50.40 53.90 57.40	45.50 49.00 52.50	14 15 16			25.642.4453.0 25.642.4553.0 25.642.4653.0	25.642.1453.0 25.642.1553.0 25.642.1653.0

PC board connectors, pluggable, rising cage connection, spacing: 3.81 mm

wiecon PC



1.5 mm²

Rated cross section:

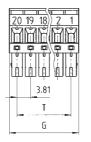
1.5 mm²

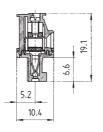
Rated current: 8 A

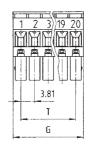
Connection range:

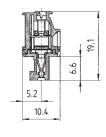
0.14 - 1.5 mm² solid / fine standed

125 V/2.5 kV/3 - Overvoltage category III 250 V/2.5 kV/2 – Overvoltage category II *690 V/2.5 kV/1 – Overvoltage category I









* max, 600 V for ungrounded networks or expected overvoltage ≤ 3 kV for L ≥ 2.00 mm and \leq 2.5 kV for 2.0 mm > L \geq 1.5 mm







Type 8813 B/... VL

vertical left plug, 90° to wire entry



Type 8813 B/... VR

vertical right plug, 90° to wire entry

Rated voltages: VDE 0110 UL ratings

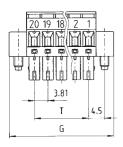
No. 30 - 16 AWG

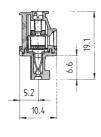
300 V

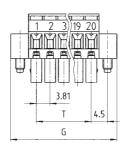
No. 30 - 16 AWG

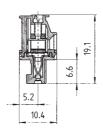
300 V 8 A

CSA ratings Approvals						No. 22 – 14 AWG	300 V	5 A	No. 22 – 14 AWG	300 V	5 A
Std.	maal.	GFL	G	Т	Poles	Part no.	Part no.		Part no.	Part no.	
Spacing: 3.8			G	ı	Poles	unmarked	marked		unmarked	marked	
		18.01 21.82 25.63	8.41 12.22 16.03	3.81 7.62 11.43	2 3 4	25.622.3253.0 25.622.3353.0 25.622.3453.0	25.622.0253.0 25.622.0353.0 25.622.0453.0		25.624.3253.0 25.624.3353.0 25.624.3453.0	25.624.0253.0 25.624.0353.0 25.624.0453.0	
		29.44 33.25 37.06	19.84 23.65 27.46	15.24 19.05 22.86	5 6 7	25.622.3553.0 25.622.3653.0 25.622.3753.0	25.622.0553.0 25.622.0653.0 25.622.0753.0		25.624.3553.0 25.624.3653.0 25.624.3753.0	25.624.0553.0 25.624.0653.0 25.624.0753.0	
	50	40.87 44.68 48.49	31.27 35.08 38.89	26.67 30.48 34.29	8 9 10	25.622.3853.0 25.622.3953.0 25.622.4053.0	25.622.0853.0 25.622.0953.0 25.622.1053.0		25.624.3853.0 25.624.3953.0 25.624.4053.0	25.624.0853.0 25.624.0953.0 25.624.1053.0	
	50 50 50	52.30 56.11 59.92	42.70 46.51 50.32	38.10 41.91 45.72	11 12 13	25.622.4153.0 25.622.4253.0 25.622.4353.0	25.622.1153.0 25.622.1253.0 25.622.1353.0		25.624.4153.0 25.624.4253.0 25.624.4353.0	25.624.1153.0 25.624.1253.0 25.624.1353.0	
	50	63.73 67.54 71.35	54.13 57.94 61.75	49.53 53.34 57.15	14 15 16	25.622.4453.0 25.622.4553.0 25.622.4653.0	25.622.1453.0 25.622.1553.0 25.622.1653.0		25.624.4453.0 25.624.4553.0 25.624.4653.0	25.624.1453.0 25.624.1553.0 25.624.1653.0	
		17	to 20pole	e upon re	equest						















Type 8813 B/... VL F

vertical left plug, 90° to wire entry



Type 8813 B/... VR F

vertical right plug, 90° to wire entry

No. 30 - 16 AWG No. 22 - 14 AWG

\$ **AL Q**

300 V 300 V

8 A 5 A

No. 30 - 16 AWG No. 22 - 14 AWG 300 V 8 A 300 V 5 A

\$ **\$18**

9 —		3		
Part no.	Part no.	Part no.	Part no.	
unmarked	marked	unmarked	marked	
25.623.3253.0	25.623.0253.0	25.625.3253.0	25.625.0253.0	
25.623.3353.0	25.623.0353.0	25.625.3353.0	25.625.0353.0	
25.623.3453.0	25.623.0453.0	25.625.3453.0	25.625.0453.0	
25.623.3553.0	25.623.0553.0	25.625.3553.0	25.625.0553.0	
25.623.3653.0	25.623.0653.0	25.625.3653.0	25.625.0653.0	
25.623.3753.0	25.623.0753.0	25.625.3753.0	25.625.0753.0	
25.623.3853.0	25.623.0853.0	25.625.3853.0	25.625.0853.0	
25.623.3953.0	25.623.0953.0	25.625.3953.0	25.625.0953.0	
25.623.4053.0	25.623.1053.0	25.625.4053.0	25.625.1053.0	
25.623.4153.0	25.623.1153.0	25.625.4153.0	25.625.1153.0	
25.623.4253.0	25.623.1253.0	25.625.4253.0	25.625.1253.0	
25.623.4353.0	25.623.1353.0	25.625.4353.0	25.625.1353.0	
25.623.4453.0	25.623.1453.0	25.625.4453.0	25.625.1453.0	
25.623.4553.0	25.623.1553.0	25.625.4553.0	25.625.1553.0	
25.623.4653.0	25.640.1653.0	25.625.4653.0	25.625.1653.0	

283	
203	

Insulated headers for PC boards

Spacings: 3.50/3.81 mm

wiecon PCB

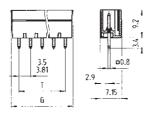


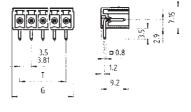
1.5 mm²

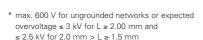
Rated current: 8 A

125 V/2.5 kV/3 – Overvoltage category III 250 V/2.5 kV/2 – Overvoltage category II *690 V/2.5 kV/1 – Overvoltage category I

Approvals for type 8513 available soon









Solder pin 0.8 x 0.8 mm Bore hole Ø 1.2 mm



Solder pin 0.8 x 0.8 mm Bore hole Ø 1.2 mm

Type 8513 S/... G, 8813 S/... G

vertical mount

Type 8513 S/... W, 8813 S/... W

horizontal mount

Rated voltages: VDE 0110

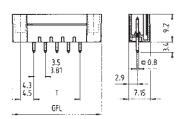
UL ratings CSA ratings Approvals 300 V 8 A 300 V 5 A 300 V 8 A 300 V 5 A

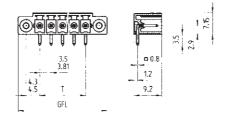
9) 1/7

91 (P

In the second second					0		•	
Std. pack	GFL	G	T	Poles	Part no.	Part no.	Part no. Part no.	
Spacing: 3.50 m	m				unmarked		unmarked	
100	17.40	8.40	3.50	2	25.646.0253.0		25.647.0253.0	
100	20.90	11.90	7.00	3	25.646.0353.0		25.647.0353.0	
50	24.40	15.40	10.50	4	25.646.0453.0		25.647.0453.0	
50	27.90	18.90	14.00	5	25.646.0553.0		25.647.0553.0	
50	31.40	22.40	17.50	6	25.646.0653.0		25.647.0653.0	
50	34.90	25.90	21.00	7	25.646.0753.0		25.647.0753.0	
50	38.40	29.40	24.50	8	25.646.0853.0		25.647.0853.0	
50	41.90	32.90	28.00	9	25.646.0953.0		25.647.0953.0	
50	45.40	36.40	31.50	10	25.646.1053.0		25.647.1053.0	
50	48.90	39.90	35.00	11	25.646.1153.0		25.647.1153.0	
50	52.40	43.40	38.50	12	25.646.1253.0		25.647.1253.0	
50	55.90	46.90	42.00	13	25.646.1353.0		25.647.1353.0	
50	59.40	50.40	45.50	14	25.646.1453.0		25.647.1453.0	
50	62.90	53.90	49.00	15	25.646.1553.0		25.647.1553.0	
50	66.40	57.40	52.50	16	25.646.1653.0		25.647.1653.0	
	17	to 20pole	e upon re	quest				
Spacing: 3.81 m	m				unmarked		unmarked	
100	18.01	9.01	3.81	2	25.626.0253.0		25.627.0253.0	
100	21.82	12.82	7.62	3	25.626.0353.0		25.627.0353.0	
50	25.63	16.63	11.43	4	25.626.0453.0		25.627.0453.0	
50	29.44	20.44	15.24	5	25.626.0553.0		25.627.0553.0	
50	33.25	24.25	19.05	6	25.626.0653.0		25.627.0653.0	
50	37.06	28.06	22.86	7	25.626.0753.0		25.627.0753.0	
50	40.87	31.87	26.67	8	25.626.0853.0		25.627.0853.0	
50	44.68	35.68	30.48	9	25.626.0953.0		25.627.0953.0	
50	48.49	39.49	34.29	10	25.626.1053.0		25.627.1053.0	
50	52.30	43.30	38.10	11	25.626.1153.0		25.627.1153.0	
50	56.11	47.11	41.91	12	25.626.1253.0		25.627.1253.0	
50	59.92	50.92	45.72	13	25.626.1353.0		25.627.1353.0	
50	63.73	54.73	49.53	14	25.626.1453.0		25.627.1453.0	
50	67.54	58.54	53.34	15	25.626.1553.0		25.627.1553.0	
50	71.35	62.35	57.15	16	25.626.1653.0		25.627.1653.0	
	17	to 20pole	e upon re	quest				
Accessories:			•					
Cadina nina								
Coding piece (strip) 100					05.561.0053.0		05.561.0053.0	
Coding studs are molded	into pluas:	remove w	ith		00.001.0000.0		00.001.0000.0	
knife at desired coding loc								
0/1								

wiecon







with screw flange

Solder pin 0.8 x 0.8 mm Bore hole Ø 1.2 mm with

with screw flange

Solder pin 0.8 x 0.8 mm Bore hole Ø 1.2 mm

Type 8513 S/... GF, 8813 S/... GF

vertical mount

Type 8513 S/... WF, 8813 S/... WF

horizontal mount

300 V 8 A 300 V 5 A 300 V 8 A 300 V 5 A

91 (P

FL (1)

Part no.	Part no.	Part no.	Part no.	
unmarked	Tareno.	unmarked	Tutt no.	
25.646.3253.0 25.646.3353.0 25.646.3453.0		25.647.3253.0 25.647.3353.0 25.647.3453.0		
25.646.3553.0 25.646.3653.0 25.646.3753.0		25.647.3553.0 25.647.3653.0 25.647.3753.0		
25.646.3853.0 25.646.3953.0 25.646.4053.0		25.647.3853.0 25.647.3953.0 25.647.4053.0		
25.646.4153.0 25.646.4253.0 25.646.4353.0		25.647.4153.0 25.647.4253.0 25.647.4353.0		
25.646.4453.0 25.646.4553.0 25.646.4653.0		25.647.4453.0 25.647.4553.0 25.647.4653.0		
unmarked		unmarked		
25.626.3253.0 25.626.3353.0 25.626.3453.0		25.627.3253.0 25.627.3353.0 25.627.3453.0		
25.626.3553.0 25.626.3653.0 25.626.3753.0		25.627.3553.0 25.627.3653.0 25.627.3753.0		
25.626.3853.0 25.626.3953.0 25.626.4053.0		25.627.3853.0 25.627.3953.0 25.627.4053.0		
25.626.4153.0 25.626.4253.0 25.626.4353.0		25.627.4153.0 25.627.4253.0 25.627.4353.0		
25.626.4453.0 25.626.4553.0 25.626.4653.0		25.627.4453.0 25.627.4553.0 25.627.4653.0		
05.561.0053.0		05.561.0053.0		

PC board connectors, pluggable, rising cage connection, spacings: 5.00/5.08 mm

wiecon PCB



2.5 mm²

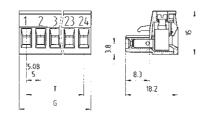
Rated cross section:

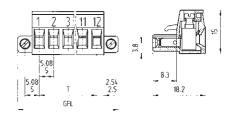
2.5 mm²

Rated current: 12 A

Connection range: 0.14 – 2.5 mm² solid / fine standed

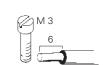
250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I











Type 8113 B/..., 8213 B/...

plug-in 180° to wire entry

Rated voltages: VDE 0110 UL ratings

CSA ratings Approvals No. 22 – 12 AWG 300 V 15 A No. 22 – 12 AWG 300 V 15 A

Type 8113 B/... F, 8213 B/... F

plug-in 180° to wire entry

No. 22 − 12 AWG 300 V 15 A No. 22 − 12 AWG 300 V 15 A ♠ ₹ **٦1** ♠

pprovals						<u>△</u> (3) N (€)		<u>△∞</u> (§)91(@⊕			
	Std. pack	GFL	G	T	Poles	Part no.	Part no.	Part no.	Part no.		
Spacing: 5	5.00 mi	m		Type 8	113	unmarked	marked	unmarked	marked		
	100	20	10	5	2	25.320.3253.0	25.320.0253.0	25.322.3253.0	25.322.0253.0		
	100	25	15	10	3	25.320.3353.0	25.320.0353.0	25.322.3353.0	25.322.0353.0		
	50	30	20	15	4	25.320.3453.0	25.320.0453.0	25.322.3453.0	25.322.0453.0		
	50	35	25	20	5	25.320.3553.0	25.320.0553.0	25.322.3553.0	25.322.0553.0		
	50	40	30	25	6	25.320.3653.0	25.320.0653.0	25.322.3653.0	25.322.0653.0		
	50	45	35	30	7	25.320.3753.0	25.320.0753.0	25.322.3753.0	25.322.0753.0		
	50	50	40	35	8	25.320.3853.0	25.320.0853.0	25.322.3853.0	25.322.0853.0		
	50	55	45	40	9	25.320.3953.0	25.320.0953.0	25.322.3953.0	25.322.0953.0		
	50	60	50	45	10	25.320.4053.0	25.320.1053.0	25.322.4053.0	25.322.1053.0		
	50	65	55	50	11	25.320.4153.0	25.320.1153.0	25.322.4153.0	25.322.1153.0		
	50	70	60	55	12	25.320.4253.0	25.320.1253.0	25.322.4253.0	25.322.1253.0		
	50	75	65	60	13	25.320.4353.0	25.320.1353.0	25.322.4353.0	25.322.1353.0		
	50	80	70	65	14	25.320.4453.0	25.320.1453.0	25.322.4453.0	25.322.1453.0		
	50	85	75	70	15	25.320.4553.0	25.320.1553.0	25.322.4553.0	25.322.1553.0		
	50	90	80	75	16	25.320.4653.0	25.320.1653.0	25.322.4653.0	25.322.1653.0		
						17 to 24pole upon reque	st	17 to 22pole upon requ	17 to 22pole upon request		
Spacing: 5	5.08 mi	m		Type 8	213	unmarked	marked	unmarked	marked		
	100	20.32	10.16	5.08	2	25.340.3253.0	25.340.0253.0	25.323.3253.0	25.323.0253.0		
	100	25.40	15.24	10.16	3	25.340.3353.0	25.340.0353.0	25.323.3353.0	25.323.0353.0		
	50	30.48	20.32	15.24	4	25.340.3453.0	25.340.0453.0	25.323.3453.0	25.323.0453.0		
	50	35.56	25.40	20.32	5	25.340.3553.0	25.340.0553.0	25.323.3553.0	25.323.0553.0		
	50	40.64	30.48	25.40	6	25.340.3653.0	25.340.0653.0	25.323.3653.0	25.323.0653.0		
	50	45.72	35.56	30.48	7	25.340.3753.0	25.340.0753.0	25.323.3753.0	25.323.0753.0		
	50	50.80	40.64	35.56	8	25.340.3853.0	25.340.0853.0	25.323.3853.0	25.323.0853.0		
	50	55.88	45.72	40.64	9	25.340.3953.0	25.340.0953.0	25.323.3953.0	25.323.0953.0		
	50	60.96	50.80	45.72	10	25.340.4053.0	25.340.1053.0	25.323.4053.0	25.323.1053.0		
	50	66.04	55.88	50.80	11	25.340.4153.0	25.340.1153.0	25.323.4153.0	25.323.1153.0		
	50	71.12	60.96	55.88	12	25.340.4253.0	25.340.1253.0	25.323.4253.0	25.323.1253.0		
	50	76.20	66.04	60.96	13	25.340.4353.0	25.340.1353.0	25.323.4353.0	25.323.1353.0		
	50	81.28	71.12	66.04	14	25.340.4453.0	25.340.1453.0	25.323.4453.0	25.323.1453.0		
	50	86.36	76.20	71.12	15	25.340.4553.0	25.340.1553.0	25.323.4553.0	25.323.1553.0		
	50	91.44	81.28	76.20	16	25.340.4653.0	25.340.1653.0	25.323.4653.0	25.323.1653.0		
Accessori	es:					17 to 22pole upon reque	est	17 to 22pole upon requ	est		
Coding piece (strip)	100					05.561.9153.0		05.561.9153.0			

wiecon

Rated cross section: 2.5 mm²

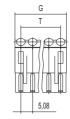
Rated current:

12 A related to 20 °C ambient temperature, rated cross section and max. pole configuration

Connection range:

 $0.5 - 2.5 \text{ mm}^2 \text{ solid}$ / fine standed

250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 400 V/4 kV/1 – Overvoltage category I









Type 8213 B/...S

Rated voltages: VDE 0110/1.89

UL ratings CSA ratings Approvals No. 28 – 12 AWG No. 28 – 12 AWG 300 V 10 A 300 V 10 A

10*IR*

Approvals				91 <i>R</i>	
Std. pack	GFL G	Т	Poles	Part no. Part no.	
Spacing: 5.08 mm				unmarked	
100	10.16	5.08	2	27.341.3253.0	
100 50	15.24 20.32	10.16 15.24	3 4	27.341.3353.0 27.341.3453.0	
50	25.40	20.32		27.341.3553.0	
50	30.48	25.40	6	27.341.3653.0	
50	35.56	30.48	7	27.341.3753.0	
50	40.64	35.56	8	27.341.3853.0	
50 50	45.72 50.80	40.64 45.72	9 10	27.341.3953.0 27.341.4053.0	
50	55.88	50.80	11	27.341.4153.0	
50	60.96	55.88	12	27.341.4253.0	
50	66.04	60.96	13	27.341.4353.0	
50	71.12	66.04	14	27.341.4453.0	
50 50	76.20 81.28	71.12 76.20	15 16	27.341.4553.0 27.341.4653.0	
				17 to 24pole upon request	
				Coding available upon request	
				<u> </u>	

PC board connectors, pluggable, rising cage connection, spacings: 7.50/7.62 mm

wiecon PCB



2.5 mm²

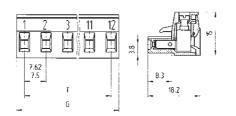
Rated cross section:

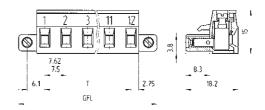
 2.5 mm^2

Rated current: 12 A

Connection range: 0.14 – 2.5 mm² solid / fine standed

400 V/4 kV/3 – Overvoltage category III 690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I







Type 8313 B/..., 8413 B/...



Type 8313 B/... F, 8413 B/... F

plug-in 180° to wire entry

with screw flange

 $$\operatorname{plug}\text{-in }180^{\circ}$$ to wire entry Rated voltages: VDE 0110

UL ratings CSA ratings Approvals No. 22 – 12 AWG 300 V 15 A No. 22 – 12 AWG 300 V 15 A ♠\$\mathrm{3} \mathrm{3} \mathrm{3 No. 22 − 12 AWG 300 V 15 A No. 22 − 12 AWG 300 V 15 A ♠ ♠ ♠

∠ M 3



PC board connectors, pluggable, rising cage connection, spacings 5.00/5.08 mm



2.5 mm²

5.08

23 24

Rated cross section: 2.5 mm²

Rated voltages: VDE 0110

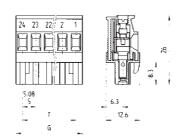
UL ratings

CSA ratings

Rated current: 12 A

Connection range: 0.14 – 2.5 mm² solid / fine standed

250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I





Type 8113 B/... VL, 8213 B/... VL

12.6

Type 8113 B/... VR, 8213 B/... VR

vertical right plug, 90° to wire entry

No. 22 – 12 AWG 300 V

No. 22 - 12 AWG

No. 22 – 12 AWG 300 V 15 A No. 22 – 12 AWG 300 V 15 A

vertical left plug, 90° to wire entry

15 A

15 A

300 V

△\$918(\$ **△**\$**918**(\$ Approvals Std. pack Part no Part no. Part no. Part no. Spacing: 5.00 mm Type 8113 unmarked marked unmarked marked 10 25.325.3253.0 25.325.0253.0 25.326.3253.0 25.326.0253.0 100 100 15 10 3 25 325 3353 0 25 325 0353 0 25 326 3353 0 25 326 0353 0 25.326.3453.0 4 50 20 25.325.3453.0 25.325.0453.0 25.326.0453.0 20 25.325.3553.0 25.325.0553.0 25.326.3553.0 25.326.0553.0 50 30 25 6 7 25 325 3653 0 25 325 0653 0 25 326 3653 0 25 326 0653 0 50 35 30 25.325.3753.0 25.325.0753.0 25.326.3753.0 25.326.0753.0 50 40 35 8 25.325.3853.0 25.325.0853.0 25.326.3853.0 25.326.0853.0 50 45 40 9 25.325.3953.0 25.325.0953.0 25.326.3953.0 25.326.0953.0 50 50 45 10 25.325.4053.0 25.325.1053.0 25.326.4053.0 25.326.1053.0 25.326.4153.0 50 11 25.325.4153.0 25.325.1153.0 25.326.1153.0 50 60 55 12 25.325.4253.0 25.325.1253.0 25.326.4253.0 25.326.1253.0 50 65 60 13 25.325.4353.0 25.325.1353.0 25.326.4353.0 25.326.1353.0 50 70 65 14 25.325.4453.0 25.325.1453.0 25.326.4453.0 25.326.1453.0 25.325.4553.0 25.326.4553.0 50 70 15 25.325.1553.0 25.326.1553.0 25.325.4653.0 25.325.1653.0 25.326.4653.0 25.326.1653.0 17 to 24pole upon request Spacing: 5.08 mm Type 8213 unmarked marked unmarked marked 100 10.16 5.08 25.345.3253.0 25.345.0253.0 25.346.3253.0 25.346.0253.0 100 15.24 10.16 25.345.3353.0 25.345.0353.0 25.346.3353.0 25.346.0353.0 20.32 15 24 25 345 0453 0 25 346 3453 0 25 346 0453 0 50 25.345.0553.0 25.346.3553.0 25 346 0553 0 50 25.40 20.32 25.345.3553.0 25.346.3653.0 30.48 6 25.345.3653.0 25.345.0653.0 25.346.0653.0 50 25.40 50 35.56 30.48 25.345.3753.0 25.345.0753.0 25.346.3753.0 25.346.0753.0 50 40.64 35.56 8 25 345 3853 0 25.345.0853.0 25 346 3853 0 25 346 0853 0 50 45 72 40 64 9 25 345 3953 0 25 345 0953 0 25 346 3953 0 25 346 0953 0 50.80 45.72 10 25.345.4053.0 25.345.1053.0 25.346.4053.0 25.346.1053.0 50 50 55.88 50.80 25.345.4153.0 25.345.1153.0 25.346.4153.0 25.346.1153.0 50 60.96 55.88 12 25.345.4253.0 25.345.1253.0 25.346.4253.0 25.346.1253.0 50 66.04 60.96 13 25.345.4353.0 25.345.1353.0 25.346.4353.0 25.346.1353.0 50 71.12 66.04 14 25.345.4453.0 25.345.1453.0 25.346.4453.0 25.346.1453.0 50 76.20 71.12 15 25.345.4553.0 25.345.1553.0 25.346.4553.0 25.346.1553.0 50 81.28 76 20 16 25 345 4653 0 25.345.1653.0 25 346 4653 0 25 346 1653 0 17 to 24pole upon request Accessories: Codina piece 100 05.561.9153.0 05.561.9153.0

PC board connectors, pluggable, rising cage connection, spacing: 7.62 mm

wiecon PCB



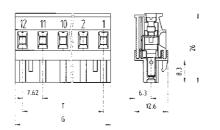
Rated cross section:

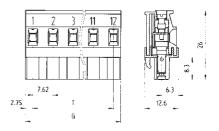
2.5 mm²

Rated current: 12 A

Connection range: 0.14 – 2.5 mm² solid / fine standed

400 V/4 kV/3 – Overvoltage category III 690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I







Type 8413 B/... VR

vertical right plug, 90° to wire entry



Type 8413 B/... VL vertical left plug, 90° to wire entry

Rated voltages: VDE 0110 UL ratings CSA ratings Approvals

No. 22 – 12 AWG No. 22 – 12 AWG ♠\$**N** 300 V 15 A 300 V 15 A No. 22 – 12 AWG No. 22 – 14 AWG ♠ ♣ **%** 300 V 15 A 300 V 15 A

(pprovais							<u> </u>	
	Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 7.62 n	nm		Type 84	113	unmarked	marked	unmarked	marked
opaomg. 7.02 m		10.10	7.62		25.385.2253.0	25.385.0253.0	25.386.2253.0	25.386.0253.0
	a 100 100	13.12 20.74	7.62 15.24	2	25.385.2253.0	25.385.0253.0	25.386.2353.0	25.386.0253.0
	50	28.36	22.86	4	25.385.2453.0	25.385.0453.0	25.386.2453.0	25.386.0453.0
	50	35.98	30.48	5	25.385.2553.0	25.385.0553.0	25.386.2553.0	25.386.0553.0
	50 50	43.60	30.48	6	25.385.2653.0	25.385.0653.0	25.386.2653.0	25.386.0553.0
	50	51.22	45.72	7	25.385.2753.0	25.385.0753.0	25.386.2753.0	25.386.0753.0
	50	58.84	53.34	0	25.385.2853.0		25.386.2853.0	
	50 50	66.46	60.96	8 9	25.385.2953.0	25.385.0853.0 25.385.0953.0	25.386.2853.0	25.386.0853.0 25.386.0953.0
	50	74.08	68.58	10	25.385.3053.0	25.385.1053.0	25.386.3053.0	25.386.1053.0
	50				25.385.3153.0		25.386.3153.0	
	50 50	81.70 89.32	76.20 83.82	11 12	25.385.3153.0	25.385.1153.0 25.385.1253.0	25.386.3253.0	25.386.1153.0 25.386.1253.0
	30	00.02	00.02	12	25.565.5255.0	23.303.1233.0	23.300.3233.0	23.300.1233.0
Accessories:								
Coding piece	100				05.561.9153.0		05.561.9153.0	
(strip)	100				0.501.9153.0		05.501.9153.0	
					-			

Crimp connection

Wiecon

Rated cross section: 1.0 or 2.5 mm²

Rated current:

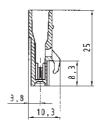
10 A with a 1.0 mm^2 wire and 0.5 - 1.0 mm^2 contacts

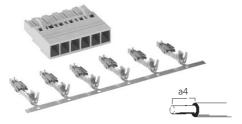
12 A with a 2.5 mm^2 wire and 1.5 $-\,$ 2.5 mm^2 contacts

Contacts for connection range: $0.5-1.0~\text{mm}^2$ fine stranded (insulation diameter 1.4-2.3~mm)

Connection range: 0.5 – 1.0 mm² fine stranded (insulation diameter 1.4 – 3.1 mm)

250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I 24 23 22 \ \(\begin{picture} \begin{picture} 3 & 2 & 1 \\ \end{picture} \]





Type 8113 BK

Rated voltages: VDE 0110

UL ratings CSA ratings Approvals

No. 22 – 12 AWG **No.** 22 – 12 AWG

300 V 15 A

Approvals					All pending			
	td. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00 m	m				unmarked	marked		
	100 100 50	10 15 20	5 10 15	2 3 4	01.060.3253.0 01.060.3353.0 01.060.3453.0	01.060.0253.0 01.060.0353.0 01.060.0453.0		
	50 50 50	25 30 35	20 25 30	5 6 7	01.060.3553.0 01.060.3653.0 01.060.3753.0	01.060.0553.0 01.060.0653.0 01.060.0753.0		
	50 50 50	40 45 50	35 40 45	8 9 10	01.060.3853.0 01.060.3953.0 01.060.4053.0	01.060.0853.0 01.060.0953.0 01.060.1053.0		
	50 50 50	55 60 65	50 55 60	11 12 13	01.060.4153.0 01.060.4253.0 01.060.4353.0	01.060.1153.0 01.060.1253.0 01.060.1353.0		
	50 50 50	70 75 80	65 70 75	14 15 16	01.060.4453.0 01.060.4553.0 01.060.4653.0	01.060.1453.0 01.060.1553.0 01.060.1653.0		
					17 to 24pole upon reque	st		
Accessories:								
Crimp contacts								
Single contacts Single contacts					02.125.1629.0 02.125.1729.0			
Reel contacts Reel contacts	4000 3500	0.5 – 1.0 mi 1.5 – 2.5 mi	m² 20-1 m² 16-1	18 AWG	02.125.1600.0 02.125.1700.0			
Crimping tool: Crimping tool Crimp dies					95.101.0800.0 05.502.2500.0			

PC board connectors, spring clamp connection spacings 5.00/5.08 mm

wiecon PCB

Rated cross section*: 2.5 mm²

Rated current: 12 A

Connection range: 0.14 – 2.5 mm² solid / fine standed

250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I





* When using ferrules for conductor cross section of 2.5 mm, use only ferrule no. 05.596.6127.0.

Type 8113/8213 BFK

Type 8113/8213 BFK .../F

Rated voltages: VDE 0110

UL ratings CSA ratings No. 22 – 12 AWG No. 22 – 12 AWG

25.840.4453.0

25.840.4553.0 25.840.4653.0

17 to 24pole upon request

300 V 12 A 300 V 12 A No. 22 – 12 AWG No. 22 – 12 AWG

25.841.4453.0

25.841.4553.0 25.841.4653.0

17 to 24pole upon request

25.841.1453.0

25.841.1553.0 25.841.1653.0

GF L

300 V 12 A 300 V 12 A

8,3

CSA ratings						NO. ZZ – 1Z AVVG	300 V 12 A	NO. 22 = 12 AVVG	300 V 12 A
Approvals						91/8		91/8	
	Std. pack	GFL	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing:	5.00 m	m				unmarked	marked	unmarked	marked
	100	22.54	10	5	2	25.820.3253.0	25.820.0253.0	25.821.3253.0	25.821.0253.0
	100	27.54	15	10	3	25.820.3353.0	25.820.0353.0	25.821.3353.0	25.821.0353.0
	50	32.54	20	15	4	25.820.3453.0	25.820.0453.0	25.821.3453.0	25.821.0453.0
	50	37.54	25	20	5	25.820.3553.0	25.820.0553.0	25.821.3553.0	25.821.0553.0
	50	42.54	30	25	6	25.820.3653.0	25.820.0653.0	25.821.3653.0	25.821.0653.0
	50	47.54	35	30	7	25.820.3753.0	25.820.0753.0	25.821.3753.0	25.821.0753.0
	50	52.54	40	35	8	25.820.3853.0	25.820.0853.0	25.821.3853.0	25.821.0853.0
	50	57.54	45	40	9	25.820.3953.0	25.820.0953.0	25.821.3953.0	25.821.0953.0
	50	62.54	50	45	10	25.820.4053.0	25.820.1053.0	25.821.4053.0	25.821.1053.0
	50	67.54	55	50	11	25.820.4153.0	25.820.1153.0	25.821.4153.0	25.821.1153.0
	50	72.54	60	55	12	25.820.4253.0	25.820.1253.0	25.821.4253.0	25.821.1253.0
	50	77.54	65	60	13	25.820.4353.0	25.820.1353.0	25.821.4353.0	25.821.1353.0
	50	82.54	70	65	14	25.820.4453.0	25.820.1453.0	25.821.4453.0	25.821.1453.0
	50	87.54	75	70	15	25.820.4553.0	25.820.1553.0	25.821.4553.0	25.821.1553.0
	50	92.54	80	75	16	25.820.4653.0	25.820.1653.0	25.821.4653.0	25.821.1653.0
						17 to 24pole upon request		17 to 24pole upon reques	t
Spacing:	5.08 m	m				unmarked	marked	unmarked	marked
	100	22.70	10.16	5.08	2	25.840.3253.0	25.840.0253.0	25.841.3253.0	25.841.0253.0
	100	27.78	15.24	10.16	3	25.840.3353.0	25.840.0353.0	25.841.3353.0	25.841.0353.0
	50	32.86	20.32	15.24	4	25.840.3453.0	25.840.0453.0	25.841.3453.0	25.841.0453.0
	50	37.94	25.40	20.32	5	25.840.3553.0	25.840.0553.0	25.841.3553.0	25.841.0553.0
	50	43.02	30.48	25.40	6	25.840.3653.0	25.840.0653.0	25.841.3653.0	25.841.0653.0
	50	48.10	35.56	30.48	7	25.840.3753.0	25.840.0753.0	25.841.3753.0	25.841.0753.0
	50	53.18	40.64	35.56	8	25.840.3853.0	25.840.0853.0	25.841.3853.0	25.841.0853.0
	50	58.26	45.72	40.64	9	25.840.3953.0	25.840.0953.0	25.841.3953.0	25.841.0953.0
	50	63.34	50.80	45.72	10	25.840.4053.0	25.840.1053.0	25.841.4053.0	25.841.1053.0
	50	68.42	55.88	50.80	11	25.840.4153.0	25.840.1153.0	25.841.4153.0	25.841.1153.0
	50	73.50	60.96	55.88	12	25.840.4253.0	25.840.1253.0	25.841.4253.0	25.841.1253.0
	50	78.58	66.04	60.96	13	25.840.4353.0	25.840.1353.0	25.841.4353.0	25.841.1353.0

25.840.1453.0

25.840.1553.0 25.840.1653.0

50

50

83.66

88.74

93.82

71.12

76.20

81.28

66.04

71.12 76.20 PC board connectors, spring clamp connection

Spacings: 5.08 mm



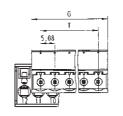
2.5 mm²

Rated cross section*: 2.5 mm²

Rated current: 12 A

Connection range: 0,14 - 2.5 mm² solid / fine stranded

250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I



* When using ferrules for conductor cross section of 2.5 mm, use only ferrule no.



Type 8213 SUFK

Rated voltages: VDE 0110

05.596.6127.0.

UL ratings CSA ratings Approvals available soon No. 22 - 12 AWG No. 22 - 12 AWG 300 V 12 A 300 V 12 A

B*L***R**

pprovais available soon				Me		
Std. pack	G	Т	Poles	Part no.	Part no.	
Spacing: 5.08 mm				unmarked	marked	
100 100 50	10.16 15.24 20.32	5.08 10.16 15.24	2 3 4	25.857.3253.0 25.857.3353.0 25.857.3453.0	25.857.0253.0 25.857.0353.0 25.857.0453.0	
50 50 50	25.40 30.48 35.56	20.32 25.40 30.48	5 6 7	25.857.3553.0 25.857.3653.0 25.857.3753.0	25.857.0553.0 25.857.0653.0 25.857.0753.0	
50 50 50	40.64 45.72 50.80	35.56 40.64 45.72	8 9 10	25.857.3853.0 25.857.3953.0 25.857.4053.0	25.857.0853.0 25.857.0953.0 25.857.1053.0	
50 50 50	55.88 60.96 66.04	50.80 55.88 60.96	11 12 13	25.857.4153.0 25.857.4253.0 25.857.4353.0	25.857.1153.0 25.857.1253.0 25.857.1353.0	
50 50 50	71.12 76.20 81.28	66.04 71.12 76.20	14 15 16	25.857.4453.0 25.857.4553.0 25.857.4653.0	25.857.1453.0 25.857.1553.0 25.857.1653.0	
1	7 to 24pole	e upon re	equest			
Accessories:						
Coding piece (strip) 100				05.561.9153.0		
Screwdriver 5 DIN 5264 A 0.6 x 3.5				06.502.4000.0		

PC board connectors, spring clamp connection

Spacing: 7.62 mm

wiecon PCB

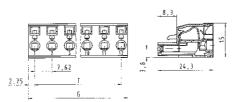
Rated cross section*: 2.5 mm²

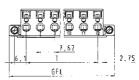
Rated current: 12 A

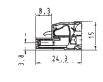
Connection range: 0.14 – 2.5 mm² solid / fine standed

400 V/6 kV/3– Overvoltage category III ** 690 V/6 kV/2 – Overvoltage category II 1000 V/6 kV/1 – Overvoltage category I

- When using ferrules for conductor cross section of 2.5 mm, use only ferrule no. 05.596.6127.0.
- ** max. 600 V for ungrounded networks or expected overvoltage \le 3 kV for L \ge 2.00 mm and \le 2.5 kV for 2.0 mm > L \ge 1.5 mm









Type 8413 BFK

11

Type 8413 BFK/... F

VDE 0110 UL ratings CSA ratings Approvals

No. 22 – 12 AWG No. 22 – 12 AWG 300 V 12 A 300 V 12 A No. 22 – 12 AWG No. 22 – 12 AWG 300 V 12 A 300 V 12 A

Al	1
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Std. pack	GFL	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 7.62 m	m				unmarked	marked	unmarked	marked
100 100 50	25.66 33.28 40.90	13.12 20.74 28.36	7.62 15.24 22.86	2 3 4	25.880.3253.0 25.880.3353.0 25.880.3453.0	25.880.0253.0 25.880.0353.0 25.880.0453.0	25.881.3253.0 25.881.3353.0 25.881.3453.0	25.881.0253.0 25.881.0353.0 25.881.0453.0
50 50 50	48.52 56.14 63.76	35.98 43.60 51.22	30.48 38.10 45.72	5 6 7	25.880.3553.0 25.880.3653.0 25.880.3753.0	25.880.0553.0 25.880.0653.0 25.880.0753.0	25.881.3553.0 25.881.3653.0 25.881.3753.0	25.881.0553.0 25.881.0653.0 25.881.0753.0
50 50 50	71.38 79.00 86.62	58.84 66.46 74.08	53.34 60.96 68.58	8 9 10	25.880.3853.0 25.880.3953.0 25.880.4053.0	25.880.0853.0 25.880.0953.0 25.880.1053.0	25.881.3853.0 25.881.3953.0 25.881.4053.0	25.881.0853.0 25.881.0953.0 25.881.1053.0
50 50	94.24 101.86	81.70 89.32	76.20 83.82	11 12	25.880.4153.0 25.880.4253.0	25.880.1153.0 25.880.1253.0	25.881.4153.0 25.881.4253.0	25.881.1153.0 25.881.1253.0

wiecon

15 A

15 A

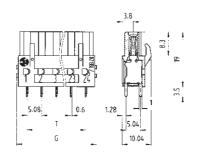
PC board connector, inverted plug / solder version

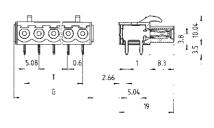
Spacing: 5.08 mm



Rated current:

250 V/4 kV/3 – Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I









300 V

300 V

* max. 600 V for ungrounded networks or expected overvoltage ≤ 3 kV for L ≥ 2.00 mm and ≤ 2.5 kV for 2.0 mm > L ≥ 1.5 mm

Rated voltages: VDE 0110

Accessories:
Coding piece

Fixing device

100

100

Type 8213 BL/... G

plug-in vertical to PC board

Type 8213 BL/... W plug-in horizontal to PC board

05.561.9153.0

Z5.523.7753.0

300 V 15 A 300 V 15 A

UL ratings
CSA ratings

₽01 ₽ Approvals Std. pack Spacing: 5.08 mm unmarked unmarked marked marked 12.36 5.08 25.342.3253.0 25.342.0253.0 25.343.3253.0 25.343.0253.0 25.342.3353.0 25.342.0353.0 25.343.3353.0 25.343.0353.0 100 17.44 10.16 25.343.3453.0 50 15.24 25.342.0453.0 25.343.0453.0 25.342.0553.0 25.342.0653.0 25.343.3553.0 25.343.3653.0 50 27.60 20.32 25.342.3553.0 25.343.0553.0 6 25.342.3653.0 50 25.40 25.343.0653.0 32.68 50 37.76 30.48 25.342.3753.0 25.342.0753.0 25.343.3753.0 25.343.0753.0 50 42 84 8 25.342.0853.0 25 343 3853 0 25 343 0853 0 35.56 25 342 3853 0 50 47 92 40.64 9 25 342 3953 0 25 342 0953 0 25 343 3953 0 25 343 0953 0 25.342.4053.0 25.342.1053.0 25.343.4053.0 50 53.00 45.72 10 25.343.1053.0 50 58.08 50.80 25.342.4153.0 25.342.1153.0 25.343.4153.0 25.343.1153.0 50 25.342.4253.0 25.342.1253.0 25.342.1353.0 25.343.4253.0 25.343.1253.0 25.343.1353.0 63.16 55.88 12 25.342.4353.0 25.343.4353.0 50 13 68.24 60.96 50 73.32 66.04 14 25.342.4453.0 25.342.1453.0 25.343.4453.0 25.343.1453.0 50 78.40 71.12 15 25.342.4553.0 25.342.1553.0 25.343.4553.0 25.343.1553.0 76 20 25 342 4653 0 25.342.1653.0 25 343 4653 0 50 83.48 16 25.343.1653.0 17 to 24pole upon request

05.561.9153.0

Z5.523.7853.0

PC board connectors, pluggable

Spacings: 5.00/5.08 mm

iecon

Rated cross section:

2.5 mm²

Rated current:

12 A, feed through current 2.2 mA per LED

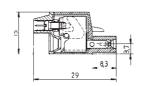
Rated voltages:

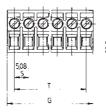
Type 8113 B/... TOP, 8213 B/... TOP 250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

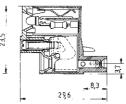
Type 8113 B/... TOP LED 24 V/4 kV/3 – Overvoltage category III 24 V/4 kV/2 - Overvoltage category II 24 V/4 kV/1 – Overvoltage category I

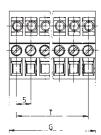
Connection range:

0.14 - 2.5 mm² solid / fine standed













TOP connection **LED** with common negative pole



15 A

15 A

Type 8113 B/... TOP, 8213 B/... TOP

plug-in 180° to wire entry

Rated voltages: VDE 0110

UL ratings CSA ratings Approvals

No. 22 – 12 AWG No. 22 - 12 AWG **₽**

300 V 15 A 300 V 15 A No. 22 – 12 AWG

plug-in 180° to wire entry

24 V No. 22 – 12 AWG 24 V **₽01**

Type 8113 B/... TOP LED

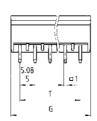
• •					_30		• • •	
Std. pack	TOP	G	Т	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00 mi	m				unmarked	marked	unmarked	marked
100 100 50	250 250 200	10 15 20	5 10 15	2 3 4	25.220.3253.0 25.220.3353.0 25.220.3453.0	25.220.0253.0 25.220.0353.0 25.220.0453.0	25.230.3253.0 25.230.3353.0 25.230.3453.0	25.230.0253.0 25.230.0353.0 25.230.0453.0
50 50 50	200 200 100	25 30 35	20 25 30	5 6 7	25.220.3553.0 25.220.3653.0 25.220.3753.0	25.220.0553.0 25.220.0653.0 25.220.0753.0	25.230.3553.0 25.230.3653.0 25.230.3753.0	25.230.0553.0 25.230.0653.0 25.230.0753.0
50 50 50	100 100 100	40 45 50	35 40 45	8 9 10	25.220.3853.0 25.220.3953.0 25.220.4053.0	25.220.0853.0 25.220.0953.0 25.220.1053.0	25.230.3853.0 25.230.3953.0 25.230.4053.0	25.230.0853.0 25.230.0953.0 25.230.1053.0
50 50 50	100 100 50	55 60 65	50 55 60	11 12 13	25.220.4153.0 25.220.4253.0 25.220.4353.0	25.220.1153.0 25.220.1253.0 25.220.1353.0	25.230.4153.0 25.230.4253.0 25.230.4353.0	25.230.1153.0 25.230.1253.0 25.230.1353.0
50 50 50	50 50 50	70 75 80	65 70 75	14 15 16	25.220.4453.0 25.220.4553.0 25.220.4653.0	25.220.1453.0 25.220.1553.0 25.220.1653.0	25.230.4453.0 25.230.4553.0 25.230.4653.0	25.230.1453.0 25.230.1553.0 25.230.1653.0
	117	to 24pole	e upon re	quest				
Spacing: 5.08 m	m				unmarked	marked		
100 100 50	250 250 200	10.16 15.24 20.32	5.08 10.16 15.24	2 3 4	25.240.3253.0 25.240.3353.0 25.240.3453.0	25.240.0253.0 25.240.0353.0 25.240.0453.0		
50 50 50	200 200 100	25.40 30.48 35.56	20.32 25.40 30.48	5 6 7	25.240.3553.0 25.240.3653.0 25.240.3753.0	25.240.0553.0 25.240.0653.0 25.240.0753.0		
50 50 50	100 100 100	40.64 45.72 50.80	35.56 40.64 45.72	8 9 10	25.240.3853.0 25.240.3953.0 25.240.4053.0	25.240.0853.0 25.240.0953.0 25.240.1053.0		
50 50 50	100 100 50	55.88 60.96 66.04	50.80 55.88 60.96	11 12 13	25.240.4153.0 25.240.4253.0 25.240.4353.0	25.240.1153.0 25.240.1253.0 25.240.1353.0		
50 50 50	50 50 50	71.12 76.20 81.28	66.04 71.12 76.20	14 15 16	25.240.4453.0 25.240.4553.0 25.240.4653.0	25.240.1453.0 25.240.1553.0 25.240.1653.0		
17 to 24pole upon request								

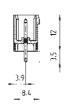
Spacings: 5.00/5.08 mm

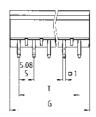


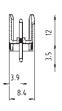
Rated current:

250 V/4 kV/3 - Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I











Solder pin 1 x 1 mm Bore hole Ø 1.4 mm



Solder pin 1 x 1 mm Bore hole Ø 1.4 mm

closed version

open version

Type 8113 S/... G, 8213 S/... G

vertical mount

₽

Type 8113 S/... GOF, 8213 S/... GOF vertical mount

Rated voltages: VDE 0110 **UL** ratings

CSA ratings Approvals

300 V 15 A 300 V 15 A

₽

300 V 15 A 300 V 15 A

Approvais							
Std. pack	G	T	Poles	Part no. Part no.	G	T	Part no.
Spacing: 5.00 mm				unmarked			unmarked
100	10.16	5	2	25.330.3253.0	10	5	99.202.9996.0
100	15.24	10	3	25.330.3353.0	15	10	99.203.9996.0
50	20.32	15	4	25.330.3453.0	20	15	99.204.9996.0
50	25.40	20	5	25.330.3553.0	25	20	99.205.9996.0
50	30.48	25	6	25.330.3653.0	30	25	99.206.9996.0
50	35.56	30	7	25.330.3753.0	35	30	99.207.9996.0
50	40.64	35	8	25.330.3853.0	40	35	99.208.9996.0
50	45.72	40	9	25.330.3953.0	45	40	99.209.9996.0
50	50.80	45	10	25.330.4053.0	50	45	99.210.9996.0
50	55.88	50	11	25.330.4153.0	55	50	99.211.9996.0
50	60.96	55	12	25.330.4253.0	60	55	99.212.9996.0
50	66.04	60	13	25.330.4353.0	65	60	99.213.9996.0
50	71.12	65	14	25.330.4453.0	70	65	99.214.9996.0
50	76.20	70	15	25.330.4553.0	75	70	99.215.9996.0
50	81.28	75	16	25.330.4653.0	80	75	99.216.9996.0
17	to 24pole	upon red	quest				17 to 24pole upon request
Spacing: 5.08 mm				unmarked			unmarked
100	11.56	5.08	2	25.350.3253.0	10.16	5,08	99.232.9996.1
100	16.64	10.16	3	25.350.3353.0	15.24	10,16	99.233.9996.1
50	21.72	15.24	4	25.350.3453.0	20.32	15,24	99.234.9996.1
50	26.80	20.32	5	25.350.3553.0	25.40	20,32	99.235.9996.1
50	31.88	25.40	6	25.350.3653.0	30.48	25,40	99.236.9996.1
50	36.96	30.48	7	25.350.3753.0	35.56	30,48	99.237.9996.1
50	42.04	35.56	8	25.350.3853.0	40.64	35,56	99.238.9996.1
50	47.12	40.64	9	25.350.3953.0	45.72	40,64	99.239.9996.1
50	52.20	45.72	10	25.350.4053.0	50.80	45,72	99.240.9996.1
50	57.28	50.80	11	25.350.4153.0	55.88	50,80	99.241.9996.1
50	62.36	55.88	12	25.350.4253.0	60.96	55,88	99.242.9996.1
50	67.44	60.96	13	25.350.4353.0	66.04	60,96	99.243.9996.1
50	72.52	66.04	14	25.350.4453.0	70.12	66,04	99.244.9996.1
50	77.60	71.12	15	25.350.4553.0	75.20	71,12	99.245.9996.1
50	82.68	76.20	16	25.350.4653.0	80.28	76,20	99.246.9996.1
17	to 24pole	upon red	quest				17 to 24pole upon request
Accessories:							
Coding piece (strip) 100				05.561.0053.0	05.561.	0053.0	
Fixing device assembly - for screw flanges on both sides of the header 100				Z5.523.2453.0			

Spacings: 5.00/5.08 mm

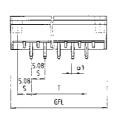
wiecon PCB



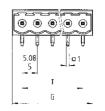
Rated current: 12 A

Rated voltages:

250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I











Solder pin 1 x 1 mm Bore hole Ø 1.4 mm

with screw flange

Solder pin 1 x 1 mm Bore hole Ø 1.4 mm

closed version

Type 8113 S/... GF, 8213 S/... GF

vertical mount

Type 8113 S/... W, 8213 S/... W

horizontal mount

81.28

86.36

91 44

05.561.0053.0

Z5.523.2453.0

66,04

76.20

25.352.4453.0

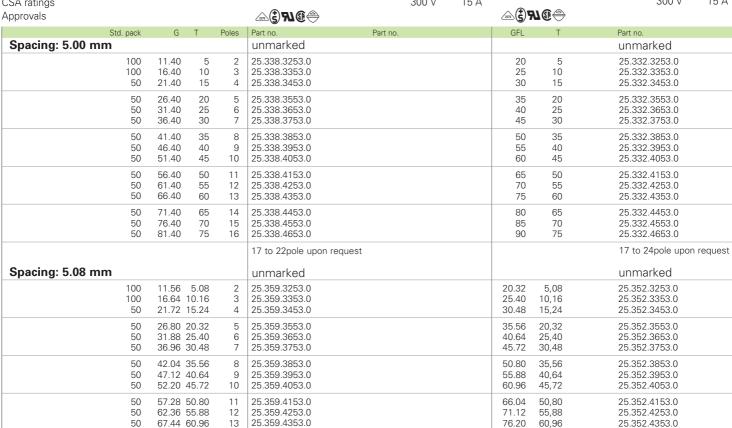
25.352.4553.0

25.352.4653.0

17 to 24pole upon request

Rated voltages: VDE 0110

UL ratings CSA ratings 300 V 15 A 300 V 15 A 300 V 15 A 300 V 15 A



Accessories:

Coding piece (strip)

Fixing device assembly for screw flanges on both
sides of the header

50

50

50

100

100

72.52 66.04

77.60 71.12

82.68 76.20

14

15

16

25.359.4453.0

25.359.4553.0

25.359.4653.0

05.561.0053.0

Z5.523.2453.0

17 to 22pole upon request

iecon

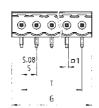
Insulated headers for PC boards

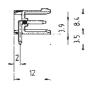
Spacings: 5.00/5.08 mm

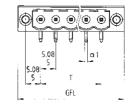


Rated current:

250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I











Solder pin 1 x 1 mm Bore hole Ø 1.4 mm

open version

of the o

Solder pin 1 x 1 mm Bore hole Ø 1.4 mm

with screw flange

Type 8113 S/... WOF, 8213 S/... WOF

horizontal mount

Type 8113 S/... WF, 8213 S/... WF

horizontal mount

Rated voltages: VDE 0110 UL ratings

CSA ratings
Approvals

300 V 15 A 300 V 15 A 300 V 15 A 300 V 15 A

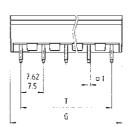
11		9:-00		
Std. pac	G T Pole	Part no. Part no.	GFL G T	Part no.
Spacing: 5.00 mm		unmarked		unmarked
100 100 50	16.40 10	99.263.9996.0	20 10 5 25 15 10 30 20 15	25.339.3253.0 25.339.3353.0 25.339.3453.0
50 50 50	31.40 25	99.266.9996.0	35 25 20 40 30 25 45 35 30	25.339.3553.0 25.339.3653.0 25.339.3753.0
50 50 50	46.40 40 9	99.269.9996.0	50 40 35 55 45 40 60 50 45	25.339.3853.0 25.339.3953.0 25.339.4053.0
50 50 50	61.40 55 12	99.272.9996.0	65 55 50 70 60 55 75 65 60	25.339.4153.0 25.339.4253.0 25.339.4353.0
50 50 50	76.40 70 1	99.275.9996.0	80 70 65 85 75 70 90 80 75	25.339.4453.0 25.339.4553.0 25.339.4653.0
17	to 24pole upon reques			17 to 22pole upon reques
Spacing: 5.08 mm		unmarked		unmarked
100 100 50	16.64 10.16	99.203.9996.2	20.32 10.16 5.08 25.40 15.24 10.16 30.48 20.32 15.24	25.358.3253.0 25.358.3353.0 25.358.3453.0
50 50 50	31.88 25.40	99.206.9996.2	35.56 25.40 20.32 40.64 30.48 25.40 45.72 35.56 30.48	25.358.3553.0 25.358.3653.0 25.358.3753.0
50 50 50	47.12 40.64	99.209.9996.2	50.80 40.64 35.56 55.88 45.72 40.64 60.96 50.80 45.72	25.358.3853.0 25.358.3953.0 25.358.4053.0
50 50 50	62.36 55.88 12	99.212.9996.2	66.04 55.88 50.80 71.12 60.96 55.88 76.20 66.04 60.96	25.358.4153.0 25.358.4253.0 25.358.4353.0
50 50 50	77.60 71.12 1	99.215.9996.2	81.28 71.12 66.04 86.36 76.20 71.12 91.44 81.28 76.20	25.358.4453.0 25.358.4553.0 25.358.4653.0
Accessories:	to 24pole upon reques			17 to 22pole upon reques
Coding piece (strip) 100		05.561.0053.0	05.561.0053.0	
Fixing device assembly - for screw flanges on both sides of the header 100		Z5.523.2453.0		

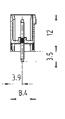
Spacings: 7.50/7.62 mm

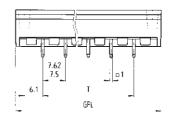


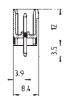
Rated current: 12 A

250 V/4 kV/3 - Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I











Solder pin 1 x 1 mm Bore hole Ø 1.4 mm

closed version

Solder pin 1 x 1 mm Bore hole Ø 1.4 mm

with screw flange

Type 8313 S/... G, 8413 S/... G

vertical mount

Type 8313 S/... GF, 8413 S/... GF

vertical mount

Rated voltages: VDE 0110

UL ratings CSA ratings Approvals

300 V 15 A 300 V 15 A 300 V 15 A 300 V 15 A

<u>\$</u> **₽01**

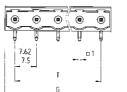
					•		
Std. pack	G	T	Poles	Part no. Part no.	GFL	T	Part no.
Spacing: 7.50 mm				unmarked			unmarked
100 100 50	21.70	7.50 15.00 22.50	2 3 4	25.370.3253.0 25.370.3353.0 25.370.3453.0	25.54 33.04 40.54	7,50 15,00 22,50	25.374.6253.0 25.374.6353.0 25.374.6453.0
50 50 50	44.20	30.00 37.50 45.00	5 6 7	25.370.3553.0 25.370.3653.0 25.370.3753.0	48.04 55.54 63.04	30,00 37,50 45,00	25.374.6553.0 25.374.6653.0 25.374.6753.0
50 50 50	66.70	52.50 60.00 67.50	8 9 10	25.370.3853.0 25.370.3953.0 25.370.4053.0	70.54 78.04 85.54	52,50 60,00 67,50	25.374.6853.0 25.374.6953.0 25.374.7053.0
50 50		75.00 82.50	11 12	25.370.4153.0 25.370.4253.0	93.04 100.54	75,00 82,50	25.374.7153.0 25.374.7253.0
Spacing: 7.62 mm				unmarked			unmarked
100 100 50	21.94	7.62 15.24 22.86	2 3 4	25.390.3253.0 25.390.3353.0 25.390.3453.0	25.66 33.25 40.90	7,62 15,24 22,86	25.398.6253.0 25.398.6353.0 25.398.6453.0
50 50 50	44.80	30.48 38.10 45.72	5 6 7	25.390.3553.0 25.390.3653.0 25.390.3753.0	48.52 56.14 63.76	30,48 38,10 45,72	25.398.6553.0 25.398.6653.0 25.398.6753.0
50 50 50	67.66	53.34 60.64 68.58	8 9 10	25.390.3853.0 25.390.3953.0 25.390.4053.0	71.38 79.00 86.62	53,34 60,64 68,58	25.398.6853.0 25.398.6953.0 25.398.7053.0
50 50		76.20 83.82	11 12	25.390.4153.0 25.390.4253.0	94.24 101.86	76,20 83,82	25.398.7153.0 25.398.7253.0
Accessories:							
Coding piece (strip) 100				05.561.0053.0	05.561.0	0053.0	
Fixing device assembly - for screw flanges on both sides of the header 100				Z5.523.2453.0			

Spacings: 7.50/7.62 mm

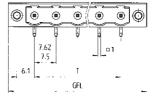


Rated current:

400 V/6 kV/3 – Overvoltage category III 690 V/6 kV/2 – Overvoltage category II 1000 V/6 kV/1 – Overvoltage category I











Solder pin 1 x 1 mm Bore hole Ø 1.4 mm closed version

Solder pin 1 x 1 mm Bore hole Ø 1.4 mm

with screw flange

Type 8313 S/... W, 8413 S/... W

horizontal mount

₽₽₽

Type 8313 S/... WF, 8413 S/... WF

horizontal mount

Rated voltages: VDE 0110 **UL** ratings

CSA ratings

Approvals

300 V 15 A 300 V 15 A

₽018€

300 V 15 A 300 V 15 A

7 (pprovais							
Std. pack	G	Т	Poles	Part no. Part no.	GFL	T	Part no.
Spacing: 7.50 mm				unmarked			unmarked
100 100 50	14.40 21.90 29.40	7.50 15.00 22.50	2 3 4	25.372.3253.0 25.372.3353.0 25.372.3453.0	25.54 33.04 40.54	7.50 15.00 22.50	25.374.2253.0 25.374.2353.0 25.374.2453.0
50 50 50	36.90 44.40 51.90	30.00 37.50 45.00	5 6 7	25.372.3553.0 25.372.3653.0 25.372.3753.0	48.04 55.54 63.04	30.00 37.50 45.00	25.374.2553.0 25.374.2653.0 25.374.2753.0
50 50 50	59.40 66.90 74.40	52.50 60.00 67.50	8 9 10	25.372.3853.0 25.372.3953.0 25.372.4053.0	70.54 78.04 85.54	52.50 60.00 67.50	25.374.2853.0 25.374.2953.0 25.374.3053.0
50 50	81.90 89.40	75.00 82.50	11 12	25.372.4153.0 25.372.4253.0	93.04 100.54	75.00 82.50	25.374.3153.0 25.374.3253.0
Spacing: 7.62 mm				unmarked			unmarked
100 100 50	14.52 22.14 29.76	7.62 15.24 22.86	2 3 4	25.392.3253.0 25.392.3353.0 25.392.3453.0	25.66 33.25 40.90	7.62 15.24 22.86	25.398.2253.0 25.398.2353.0 25.398.2453.0
50 50 50	37.38 45.00 52.62	30.48 38.10 45.72	5 6 7	25.392.3553.0 25.392.3653.0 25.392.3753.0	48.52 56.14 63.76	30.48 38.10 45.72	25.398.2553.0 25.398.2653.0 25.398.2753.0
50 50 50	60.24 67.86 75.48	53.34 60.64 68.58	8 9 10	25.392.3853.0 25.392.3953.0 25.392.4053.0	71.38 79.00 86.62	53.34 60.64 68.58	25.398.2853.0 25.398.2953.0 25.398.3053.0
50 50	83.10 90.72	76.20 83.82	11 12	25.392.4153.0 25.392.4253.0	94.24 101.86	76.20 83.82	25.398.3153.0 25.398.3253.0
Accessories:							
Coding piece (strip) 100				05.561.0053.0	05.561.	0053.0	
Fixing device assembly - for screw flanges on both sides of the header 100				Z5.523.2453.0			

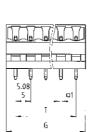
Spacings: 5.00/5.08 mm

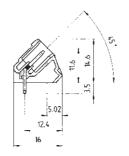
wiecon PCB

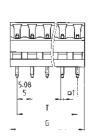


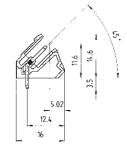
Rated current: 12 A

250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I











Solder pin 1 x 1 mm Bore hole Ø 1.4 mm Solder pin 1 x 1 mm Bore hole Ø 1.4 mm

closed version

Type 8113 S/... S, 8213 S/... S

plug-in 45° to PC board

open version

Type 8113 S/... S1, 8213 S/... S1

plug-in 45° to PC board

Rated voltages: VDE 0110

UL ratings CSA ratings Approvals 300 V 15 A 300 V 15 A 300 V 15 A 300 V 15 A

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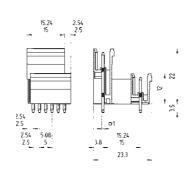
Std. pack	G	Т	Poles	Part no. Part no.	G T	Part no.
Spacing: 5.00 mm				unmarked		unmarked
100	11.20	5	2	25.394.3253.0	9.60 5	25.395.3253.0
100	16.20	10	3	25.394.3353.0	14.60 10	25.395.3353.0
50	21.20	15	4	25.394.3453.0	19.60 15	25.395.3453.0
50	26.20	20	5	25.394.3553.0	24.60 20	25.395.3553.0
50	31.20	25	6	25.394.3653.0	29.60 25	25.395.3653.0
50	36.20	30	7	25.394.3753.0	34.60 30	25.395.3753.0
50	41.20	35	8	25.394.3853.0	39.60 35	25.395.3853.0
50	46.20	40	9	25.394.3953.0	44.60 40	25.395.3953.0
50	51.20	45	10	25.394.4053.0	49.60 45	25.395.4053.0
50	56.20	50	11	25.394.4153.0	54.60 50	25.395.4153.0
50	61.20	55	12	25.394.4253.0	59.60 55	25.395.4253.0
50	66.20	60	13	25.394.4353.0	64.60 60	25.395.4353.0
50	71.20	65	14	25.394.4453.0	69.60 65	25.395.4453.0
50	76.20	70	15	25.394.4553.0	74.60 70	25.395.4553.0
50	81.20	75	16	25.394.4653.0	79.60 75	25.395.4653.0
17	7 to 24pole	upon rec	quest			
Spacing: 5.08 mm				unmarked		unmarked
100	11.36	5.08	2	25.396.3253.0	9.76 5.08	25.397.3253.0
100	16.44	10.16	3	25.396.3353.0	14.84 10.16	25.397.3353.0
50	21.52	15.24	4	25.396.3453.0	19.92 15.24	25.397.3453.0
50	26.60	20.32	5	25.396.3553.0	25.00 20.32	25.397.3553.0
50	31.68	25.40	6	25.396.3653.0	30.08 25.40	25.397.3653.0
50	36.76	30.48	7	25.396.3753.0	35.16 30.48	25.397.3753.0
50	41.84	35.56	8	25.396.3853.0	40.24 35.56	25.397.3853.0
50	46.92	40.64	9	25.396.3953.0	45.32 40.64	25.397.3953.0
50	52.00	45.72	10	25.396.4053.0	50.40 45.72	25.397.4053.0
50	57.08	50.80	11	25.396.4153.0	55.48 50.80	25.397.4153.0
50	62.19	55.88	12	25.396.4253.0	60.56 55.88	25.397.4253.0
50	67.24	60.96	13	25.396.4353.0	65.64 60.96	25.397.4353.0
50	72.32	66.04	14	25.396.4453.0	70.72 66.04	25.397.4453.0
50	77.40	71.12	15	25.396.4553.0	75.80 71.12	25.397.4553.0
50	82.48	76.20	16	25.396.4653.0	80.88 76.20	25.397.4653.0
17	7 to 24pole	upon rec	quest			
Accessories:						
Coding piece (strip) 100				05.561.0053.0	05.561.0053.0	

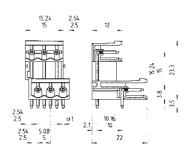
Two-tier insulated headers for PC boards

Spacings: 5.00/5.08 mm

Rated current: 10 A

250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I







Solder pin 1 x 1 mm Bore hole Ø 1.4 mm



Solder pin 1 x 1 mm Bore hole Ø 1.4 mm

Type 8113 SE/... G, 8213 SE/... G

vertical mount

Type 8113 SE/... W, 8213 SE/... W

horizontal mount

Rated voltages: VDE 0110 UL ratings

CSA ratings
Approvals

300 V 15 A 300 V 10 A 300 V 15 A 300 V 10 A

⊕®₽(**\$**

Std. pack	T Poles	Part no. Part no.	Part no.
Spacing: 5.00 mm		unmarked	unmarked
100 100		25.334.3253.0 25.334.3353.0	25.336.3253.0 25.336.3353.0
F	Slide together for larger pole configurations. Factory assembly available.		
Spacing: 5.08 mm		unmarked	unmarked
100 100		25.354.3253.0 25.354.3353.0	25.356.3253.0 25.356.3353.0
F	Slide together for larger pole configurations. Factory assembly available.		
Accessories:			
End plate 50		07.310.9853.0	07.310.9853.0
Fixing device assembly - for screw flanges on both sides of the header		upon request	only together with end plate 07.310.9853.0 Z5.523.2453.0

Insulated header

wiecon PCB

Rated current: 10 A

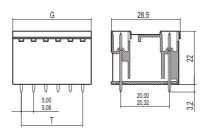
Rated voltages: VDE 0110

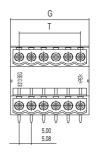
UL ratings

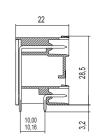
Approvals

CSA ratings

250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II









Solder pin 1 x 1 mm Bore hole Ø 1.3 mm

Solder pin 1 x 1 mm Bore hole Ø 1.3 mm

Type 81-8213 SEG .../G

Vertical mount

300 V 10 A 300 V 10 A

Type 81-8213 SEG .../W

Horizontal mount

300 V 10 A 300 V 10 A

B1R

11

Std. pack	G	Т	Poles	Part no. Part no.	Part no. Part no.
Spacing: 5.00 mm				unmarked	unmarked
100	12	5	4	27.334.0253.0	27.336.0253.0
100	17	10	6	27.334.0353.0	27.336.0353.0
50	22	15	8	27.334.0453.0	27.336.0453.0
50	27	20	10	27.334.0553.0	27.336.0553.0
50	32	25	12	27.334.0653.0	27.336.0653.0
50	37	30	14	27.334.0753.0	27.336.0753.0
50	42	35	16	27.334.0853.0	27.336.0853.0
50	47	40	18	27.334.0953.0	27.336.0953.0
50	52	45	20	27.334.1053.0	27.336.1053.0
50	57	50	22	27.334.1153.0	27.336.1153.0
50	62	55	24	27.334.1253.0	27.336.1253.0
50	67	60	26	27.334.1353.0	27.336.1353.0
50	72	65	28	27.334.1453.0	27.336.1453.0
50	77	70	30	27.334.1553.0	27.336.1553.0
50	82	75	32	27.334.1653.0	27.336.1653.0
17	to 24pole	e upon re	quest		
Spacing: 5.08 mm				unmarked	unmarked
100	12.16	5.08	4	27.354.0253.0	27.356.0253.0
100	17.24	10.16	6	27.354.0353.0	27.356.0353.0
50	22.32	15.24	8	27.354.0453.0	27.356.0453.0
50	27.40	20.32	10	27.354.0553.0	27.356.0553.0
50	32.48	25.40	12	27.354.0653.0	27.356.0653.0
50	37.56	30.48	14	27.354.0753.0	27.356.0753.0
50	42.64	35.56	16	27.354.0853.0	27.356.0853.0
50	47.72	40.64	18	27.354.0953.0	27.356.0953.0
50	52.80	45.72	20	27.354.1053.0	27.356.1053.0
50	57.88	50.80	22	27.354.1153.0	27.356.1153.0
50	62.96	55.88	24	27.354.1253.0	27.356.1253.0
50	68,04	60.96	26	27.354.1353.0	27.356.1353.0
50	73.12	66.04	28	27.354.1453.0	27.356.1453.0
50	78.20	71.12	30	27.354.1553.0	27.356.1553.0
50	83.28	76.20	32	27.354.1653.0	27.356.1653.0
17	to 24pole	e upon re	quest		
004				Coding available on request	Coding available on request

Insulated header for panel mount feed through,





Wire wrap connection 1 x 1

Max. pin diameter: 0.8 mm

Rated current: 6.5 A

Solder eyelets

Rated cross section: 1.5 mm² solid/ 1.0 mm² fine stranded

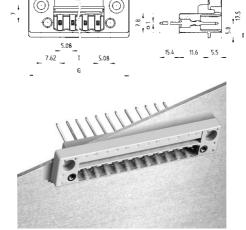
Rated current: 12 A

Quick connect tabs 2.8 x 0.8 DIN 46249

Rated cross section: 1.0 mm² fine stranded

Rated current: 8 A

250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I



wire wrap

No. 22 - 12 AWG

No. 22 - 12 AWG

⊕®₽₽

Z6.012.0812.0

G T Poles Part no.

Type 8213 S/... DFWW, 8213 S/... DFWW M

6.5 A 6.5 A

Part no.

Z6.012.0812.0

300 V

300 V

Part no.

No. 22 - 12 AWG **⊕®₽®**

300 V 12/8 A 300 V 8 A

Type 8213 S/... DFLS, 8213 S/... DFLS M No. 22 - 12 AWG

Part no.

with solder eyelets / quick connect tabs

Rated voltages: VDE 0 UL ratings CSA ratings Approvals)110
Sto	d. pack
Spacing: 5.08 mm	n
	100
	100
	50
	50

Set of screws

Std. pack	G	- 1	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.08 mm				unmarked	unmarked	unmarked	unmarked
100 100 50	30.48 35.56 40.64	5.08 10.16 15.24	2 3 4	25.303.0253.0 25.303.0353.0 25.303.0453.0	25.313.0253.0 25.313.0353.0 25.313.0453.0	25.303.3253.0 25.303.3353.0 25.303.3453.0	25.313.3253.0 25.313.3353.0 25.313.3453.0
50 50 50	45.72 50.80 55.88	20.32 25.40 30.48	5 6 7	25.303.0553.0 25.303.0653.0 25.303.0753.0	25.313.0553.0 25.313.0653.0 25.313.0753.0	25.303.3553.0 25.303.3653.0 25.303.3753.0	25.313.3553.0 25.313.3653.0 25.313.3753.0
50 50 50	60.96 66.04 71.12	35.56 40.64 45.72	8 9 10	25.303.0853.0 25.303.0953.0 25.303.1053.0	25.313.0853.0 25.313.0953.0 25.313.1053.0	25.303.3853.0 25.303.3953.0 25.303.4053.0	25.313.3853.0 25.313.3953.0 25.313.4053.0
50 50 50	76.20 81.28 86.36	50.80 55.88 60.96	11 12 13	25.303.1153.0 25.303.1253.0 25.303.1353.0	25.313.1153.0 25.313.1253.0 25.313.1353.0	25.303.4153.0 25.303.4253.0 25.303.4353.0	25.313.4153.0 25.313.4253.0 25.313.4353.0
50 50 50	91.44 96.52 101.60	66.04 71.12 76.20	14 15 16	25.303.1453.0 25.303.1553.0 25.303.1653.0	25.313.1453.0 25.313.1553.0 25.313.1653.0	25.303.4453.0 25.303.4553.0 25.303.4653.0	25.313.4453.0 25.313.4553.0 25.313.4653.0
17	7 to 22pole	e upon red	quest	without screw flange	with screw flange	without screw flange	with screw flange
	a 13.18 18.26 23.34 28.42 33.50 38.58 43.66 48.74 53.82 58.90 68.98 69.06 74.14 79.22 84.30 7 to 24polo	b 20.32 25.40 30.48 35.56 40.64 45.72 50.80 55.08 60.96 66.04 71.12 76.20 81.28 86.36 91.44 e upon rec	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 quest	3.2	a _{±0.1} b _{±0.1}		
Accessories:							
Coding piece (strip) 100				05.561.0053.0		05.561.0053.0	

Accessories for 8113 – 8413/8813 and 8213 BL

wiecon PCB

Bore hole plan for fixing brackets Z5.523.2453.0

Type 8113 SE/... and 8213 SE/...



	Α	В
8113	6.3	5.00
8213	6.8	5.08

Bore hole plan for fixing brackets Z5.523.2453.0

Type 81 – 8413 S/...









	Α	В
8113	5.1	5.00
8213	5.2	5.08
8313	5.4	7.50
8413	5.4	7.62

8113 – 8413/8813 8213 BL

0110 0410/0010				02 13 DL	
		Part no.	Std. pack	Part no.	Std. pack
Fixing brackets (type)	oe 8113 – 8413)	Z5.523.2453.0	100	Adhesive marking tag strips insulated headers with 5/5.0	for plug connectors and 8 mm spacing
	End plate for multi-tier header (type 8113 – 8213 SE)	07.310.9853.0	50	1 – 12 04.007.4089.0	1
Coding strip for – header (type 8113 – 8413, type 8813)	THE STATE OF THE S	05.561.0053.0	100	13 - 24	1 1 1 1 1 1
- plug (type 8113 - 8413)		05.561.9153.0	100	Fixing brackets	
Examples of fixing bracket for insulated headers	s assembly	Assembly of fixing bracket multi-tier headers	s with end plate for	Z5.523.7753.0	100
On the late of the				Z5.523.7853.0	

wiecon

Duo feed through DIN rail terminal blocks with connection for PC board pluggables

wiecon PCB

For PC board connectors 8113 BFK

EN 60 947-7-1/DIN VDE 0611 T1

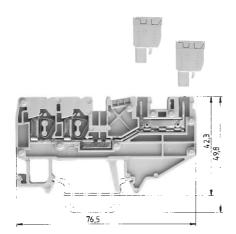
field/factory wiring

Wire strip length

UL ratings

CSA ratings

Width



WKF 2.5 D2/8113/35

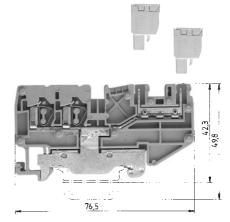
fine stranded solid V A

0.13 - 2.5 mm² 0.13 - 4 mm² 250 V/4 kV/3 16

No. 22 - 12 AWG 300 15

No. 24 - 12 AWG 300 15

5 mm 11 mm

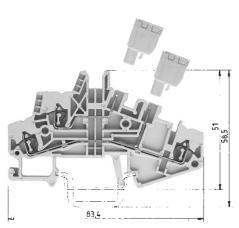


WKF 2.5 D2/8113 SL/35

fine stranded solid V A
0.13 – 2.5 mm² 0.13 – 4 mm² 250 V/4 kV/3 16
No. 22 – 12 AWG 300
No. 24 – 12 AWG 300
5 mm 11 mm

pprovals		Я	7@			11.		
		Тур	ре	Part no.	Std. pack	Туре	Part no. St	d. pack
Duo feed-through terminal	l block Color:	gray WI	KF 2,5 D2/8113/35	56.703.2053	3.0 100			
	Color:	blue W	KF 2,5 D2/8113/35 BLAU	56.703.2053	3.6 100			
Duo ground block	Color: green/ye	ellow				WKF 2,5 D2/8113 SL/35	56.703.9253.0	100
Multi-tier block	Color:	gray						
Accessories								
1. Mounting rail TS 35, DIN	I rail7.5 high L =	= 2 m 35	x27x7,5 EN 50022	98.300.0000).0 1	35x27x7,5 EN 50022	98.300.0000.0	1
Mounting rail TS 35, DIN	I rail 15 mm high L =	= 2 m 35	x24x15 EN 50022	98.360.0000).0 1	35x24x15 EN 50022	98.360.0000.0	1
2. End clamp TS 35, with s	crew 8 mm	wide 97	08/2 S35	Z5.522.8553	3.0 100	9708/2 S35	Z5.522.8553.0	100
End clamp for TS 35, with	thout screws 8 mm	wide WI	EF 1/35	Z5.523.9353	3.0 100	WEF 1/35	Z5.523.9353.0	100
3. End plate	Color:	gray AP	PF 2,5/D2/8113	07.312.4153	3.0 10	APF 2,5/D2/8113	07.312.4153.0	10
	Color:	blue AP	PF 2,5/D2/8113	07.312.4153	3.6 10			
4. Partition plate	Color:	gray						
	Color:	: blue						
5. Cross connector	2	2pole IVE	B WKF 2,5 – 2	Z7.280.6227	7.0 10			
insulated	3	3pole IVE	B WKF 2,5 – 3	Z7.280.6327	7.0 10			
	4	4pole IVE	B WKF 2,5 – 4	Z7.280.6427	7.0 10			
	5	5pole IVE	B WKF 2,5 – 5	Z7.280.6527	7.0 10			
	6	6pole IVE	B WKF 2,5 – 6	Z7.280.6627	7.0 10			
	7	7pole IVE	B WKF 2,5 – 7	Z7.280.6727	7.0 20			
	8	8pole IVE	B WKF 2,5 – 8	Z7.280.6827	7.0 20			
	9	9pole IVE	B WKF 2,5 – 9	Z7.280.6927	7.0 20			
	10	Opole IVE	B WKF 2,5 – 10	Z7.280.7027	7.0 20			
6. Wire entry guide	0.13 - 0.2	mm² LEI	L 2,5/1 WEISS	05.561.6553	3.0 100	LEL 2,5/1 WEISS	05.561.6553.0	100
	0.25 - 0.5 ו	mm² LEI	L 2,5/2 GRAU	05.561.6653	3.0 100	LEL 2,5/2 GRAU	05.561.6653.0	100
	0.75 – 1.0 ו	mm² LEI	L 2,5/3 SCHWARZ	05.561.6753	3.0 100	LEL 2,5/3 SCHWARZ	05.561.6753.0	100
7. Cover with warning sym	bol over 4 blocks	AD	OF 2,5/4 GELB	04.343.6053	3.8 10	ADF 2,5/4 GELB	04.343.6053.8	10
Pin cover with warning	symbol over 4 poles	AD	8113/4 GELB	04.343.6853	3.8 10	AD 8113/4 GELB	04.343.6853.8	10
8. Screwdriver, uninsulated	d	1ID	N 5264 B 0,6x3,5	06.502.4000).0 5	DIN 5264 B 0,6 x 3,5	06.502.4000.0	5
9. Coding piece (strip)				05.561.0053	3.0 100		05.561.0053.0	100
10. Marking accessories		Se	ee fasis page 36			See fasis page 36		
						Note fasis page 36	!	

Pluggable PC board connectors Spring clamp / rising cage clamp Spacing: 5.00 mm



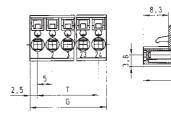
WKF 1.5 E/8113/35

fine stranded solid 0.13 - 1.5 mm² 0.13 - 2.5 mm² 250 V/4 kV/3 16 No. 22 – 14 No. 24 – 14

5 mm 11 mm pending

Rated current:

250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I



When using ferrules for conductor cross section of 2.5 mm², use only ferrule no. 05.596.6127.0.

See catalog section facts & DATA pages 796 - 797



Rated voltages: VDE 0110 EN 60 947-7-1/DIN VDE 0611 T1

Wire strip length Spacing: **UL** ratings CSA ratings

Type 8113 BFK

$0.13 - 2.5 \text{mm}^2$ fine st	randed 0.13 - 4 r	mm² solid
11 mm		9 mr
No. 22 - 12 AWG	300 V	12 /
No. 22 - 12 AWG	300 V	12 /

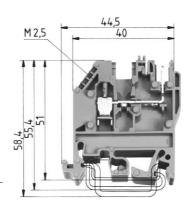
			CSA ratings					NO. 22 - 12 AVVG	300 V	12
pending			Approvals pending					<i>9</i> 7		
Туре	Part no. Std. p	ack	Si	d. pack	G	Т	Poles	Part no.	Part no.	
			Spacing: 5.00 m	m				unmarked	marked	
				100	10	5	2	25.820.3253.0	25.820.0253.0	
				100 50	15 20	10 15	3 4	25.820.3353.0 25.820.3453.0	25.820.0353.0 25.820.0453.0	
WKF 1,5 E/8113/35	56.702.2053.0 1	00		50	25	20		25.820.3553.0	25.820.0553.0	
				50	30	25	6	25.820.3653.0	25.820.0653.0	
				50	35	30	7	25.820.3753.0	25.820.0753.0	
35x27x7,5 EN 50022	98.300.0000.0	1		50	40	35	8	25.820.3853.0	25.820.0853.0	
35x24x15 EN 50022	98.360.0000.0	1		50 50	45 50	40 45	9 10	25.820.3953.0 25.820.4053.0	25.820.0953.0 25.820.1053.0	
9708/2 S35	Z5.522.8553.0 1	00		50	55	50	11	25.820.4153.0	25.820.1153.0	
WEF 1/35	Z5.523.9353.0 1	00		50	60	55	12	25.820.4253.0	25.820.1253.0	
APF 1,5/E/8113	07.312.4753.0	10		50	65	60	13	25.820.4353.0	25.820.1353.0	
				50	70	65	14	25.820.4453.0	25.820.1453.0	
				50 50	75 80	70 75	15 16	25.820.4553.0 25.820.4653.0	25.820.1553.0 25.820.1653.0	
								25.620.4055.0	25.620.1055.0	
IVB WKF 2,5 – 2	Z7.280.6227.0	10		17	to 24pole	e upon	request			
IVB WKF 2,5 – 3	Z7.280.6327.0	10								
IVB WKF 2,5 - 4	Z7.280.6427.0	10								
IVB WKF 2,5 - 5	Z7.280.6527.0	10								
IVB WKF 2,5 - 6	Z7.280.6627.0	10								
IVB WKF 2,5 - 7	Z7.280.6727.0	20								
IVB WKF 2,5 - 8	Z7.280.6827.0	20								
IVB WKF 2,5 – 9	Z7.280.6927.0	20								
IVB WKF 2,5 - 10	Z7.280.7027.0	20								
LEL 1,5/1 WEISS	05.562.2453.0 1	00								
LEL 1,5/2 GRAU	05.562.2553.0 1	00								
LEL 1,5/3 SCHWARZ	05.562.2653.0 1	00								
ADF 2,5/4 GELB	04.343.6053.8	10								
AD 8113/4 GELB	04.343.6853.8	10								
DIN 5264 B 0,6x3,5	06.502.4000.0	5								
	05.561.0053.0 1	00								
See fasis page 37			Accessories:							
			Coding piece							
			(strip)	100				05.561.9153.0		
			Screwdriver DIN 5264 B 0.6 x 3.5	5				06.502.4000.0		

Feed through DIN rail terminal blocks with connection for PC board pluggables

wiecon PCB

For PC board connectors:

- Type 8113 B
- Type 8113 BFK
- Type 8313 B
- Type 8113 B/VL
- Type 8113 B/VR Type 8113 B/Top



The part numbers marked with ***) are supplied with UL 94-V0 insulating housings (flammability class).

Wire strip length

EN 60 947-7-1/DIN VDE 0611 T1

UL ratings

Width

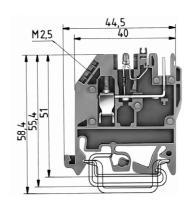
CSA ratings

WK 2.5 U / 8113 S/V

fine stranded solid 0.5 - 2.5 mm² 0.5 - 4 mm² 250 V/4 kV/3 12 No. 22 – 12 AWG 300 V 15 No. 24 – 12 AWG 300 V 15 5 mm

Indicator: R = 4.7 K; 0.5 W Signal color: red

1) for blocks with indicator determined by LED



WK 2.5 U / 8113 S/V / LED 25

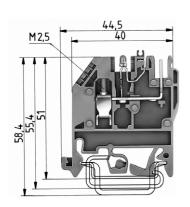
fine stranded solid $0.5 - 2.5 \text{ mm}^2 \ 0.5 - 4 \text{ mm}^2$ 1) 12 300 V No. 22 – 12 AWG 15 No. 24 – 12 AWG 25 V 1) 15 5 mm

Approvals	viie strip lerigtri	91.0		0 111111	91 1		0 1111
		Туре		. pack	Туре	Part no. Std	. pack
Feed through block	Color: gray	WK 2,5 U/8113 S/V***)	57.503.2655.6	50			
Feed through block with LED 25 $\rm V$	Color: gray				WK 2,5 U/8113 S/V/LED 25***	57.503.2755.0	50
Feed-through block with LED 50 V	Color: gray						
Power supply block	Color: blue						
Feed through blocks with header c	onnection						
For insulated headers type 8113 se	ee page 297						
Accessories							
Mounting rail TS35 Din rail 7.5 mm	high L = 2 m						
Mounting rail TS 35, DIN rail, 15mr	m high L = 2 m						
Mounting rail 32 G rail	L = 2 m						
End clamp with U foot	10 mm wide						
End clamp TS 35 with screw	8 mm wide						
End clamp TS 32 with screw	7.5 mm wide						
End plate for right side 2.5 mm this	ck Color: gray	AP 2,5 U/8113 S/V ***)	07.312.1555.0	10	AP 2,5 U/8113 S/V ***)	07.312.1555.0	10
End plate for left side, 2.5 mm thic	k Color: gray	AP 2,5 U/8113 ***)	07.312.4655.0	10	AP 2,5 U/8113 ***)	07.312.4655.0	10
End plate, 2.5 mm thick	Color: blue						
Partition, right side, 2.5 mm thick	Color: gray	ZP 2,5 U/8113 S/V	07.312.1655.0	10	ZP 2,5 U/8113 S/V	07.312.1655.0	10
Partition, 2.5 mm thick	Color: blue						
(for PC board headers in 7.5 mm spacing)							
Cross connector with screws, E-Cu	ı insulated						
	2pole	IVB WK 2,5-2	Z7.280.2227.0	10	IVB WK 2,5-2	Z7.280.2227.0	10
	3pole	IVB WK 2,5-3	Z7.280.2327.0	10	IVB WK 2,5-3	Z7.280.2327.0	10
	up to 12pole	IVB WK 2,5-12	Z7.280.3227.0	10	IVB WK 2,5-12	Z7.280.3227.0	10
Jumper rail, tin-plated brass	L = 0.4 m		05.561.4125.0	1		05.561.4125.0	1
Single cover for cross connector w	ith marking capabil.	ADVB 2,5 GELB	04.326.2053.0		ADVB 2,5 GELB	04.326.2053.0	
Cover strip for header	24pole		04.343.9056.0			04.343.9056.0	
Cover for header with warning sym	lodr		04.343.9156.0			04.343.9156.0	
Partition plate		TS 2,5 GELB	07.311.2053.0		TS 2,5 GELB	07.311.2053.0	
Coding piece (strip)			05.561.0053.0			05.561.0053.0	100
locking piece	10pole						
For marking accessories see page	394						

Wiecon

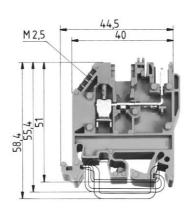
Indicator: R = 10 K; 0.5 W Signal color: red

 $^{^{\}rm 1)}$ for blocks with indicator determined by LED



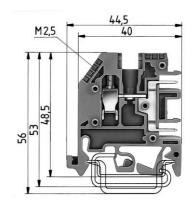
WK 2.5 U / 8113 S/V / LED 50

	•	
fine stranded solid	V	Α
$0.5 - 2.5 \text{ mm}^2 \ 0.5 - 4 \text{ mm}^2$	1)	12
No. 22 – 12 AWG	300 V	15
No. 24 – 12 AWG	50 V 1)	15
5 mm		9 mm
91/6		



WK 2 5 U / 8113 S/V /VK

WK 2.5 U / 6113 3/ V	/ V IX	
fine stranded solid	V	Α
$0.5 - 2.5 \text{ mm}^2 \ 0.5 - 4 \text{ mm}^2$	250 V/4 kV/3	12
No. 22 – 12 AWG	300 V	15
No. 24 – 12 AWG	300 V	15
5 mm		9 mm
91/@		



WK 2.5 U / 8113 S/H

fine stranded solid	V	А
0.5 – 2.5 mm ² 0.5 – 4 mm ²	250 V/4 kV/3	12
No. 22 – 12 AWG	300 V	20
No. 24 – 12 AWG	300 V	15
5 mm		9 mm
71		

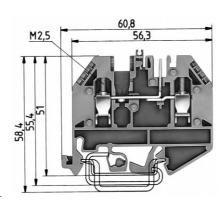
AT @			91 @			AT (B)		
Гуре	Part no. Std	l. pack	Type	Part no.	Std. pack	Туре	Part no. S	td. pack
WK 2,5 U/8113 S/V/LED 50***	57.503.2855.0	50						
			WK 2,5 U/8113 S/V/VK***)	57.503.3055	5.6 100			
						WK 2,5 U/8113 S/H***)	57.503.2055.	0 100
AP 2,5 U/8113 S/V ***)	07.312.1555.0	10						
AP 2,5 U/8113 ***)	07.312.4655.0	10	AP 2,5 U/8113 ***)	07.312.4655	5.0 10			
			AP 2,5 U/8113 S/V BL***)	07.312.1555	5.0 10	AP 2,5 U/8113 S/H ***)	07.311.9855.	0 10
ZP 2,5 U/8113 S/V	07.312.1655.0	10	ZP 2,5 U/8113 S/V	07.312.1655	5.0 10			
			ZP 2,5 U/8113 S/V BL	07.312.1655	i.6 10			
IVB WK 2,5-2	Z7.280.2227.0	10	IVB WK 2,5-2	Z7.280.2227	'.0 10	IVB WK 2,5-2	Z7.280.2227.	0 10
IVB WK 2,5-3	Z7.280.2327.0	10	IVB WK 2,5-3	Z7.280.2327	'.0 10	IVB WK 2,5-3	Z7.280.2327.	0 10
IVB WK 2,5-12	Z7.280.3227.0	10	IVB WK 2,5-12	Z7.280.3227	'.0 10	IVB WK 2,5-12	Z7.280.3227.	0 10
	05.561.4125.0	1		05.561.4125	5.0 1		05.561.4125.	0 1
ADVB 2,5 GELB	04.326.2053.0		ADVB 2,5 GELB	04.326.2053	3.0	ADVB 2,5 GELB	04.326.2053.	0
	04.343.9056.0			04.343.9056	5.0		04.343.9056.	0
	04.343.9156.0			04.343.9156	5.0		04.343.9156.	0
TS 2,5 GELB	07.311.2053.0		TS 2,5 GELB	07.311.2053	3.0	TS 2,5 GELB	07.311.2053.	0
	05.561.0053.0	100		05.561.0053	3.0 100		05.584.0053.	0 100
							05.576.5853.	0 25

Feed through DIN rail terminal blocks with connection for PC board pluggables

wiecon PCB

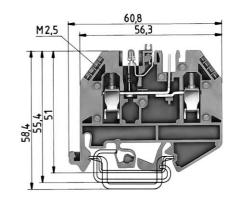
For PC board connectors:

- Type 8113 B
- Type 8113 BFK
- Type 8313 B
- Type 8113 B/VL
- Type 8113 B/VR
- Type 8113 B/Top



Indicator: R = 4.7 K; 0.5 W Signal color: red

1) for blocks with indicator determined by LED



The part numbers marked with ***) are supplied with UL 94-V0 insulating housings (flammability class).

EN 60 947-7-1/DIN VDE 0611 T1

UL ratings

CSA ratings

WK 2.5 U /D/ 8113 S/V

fine stranded solid V A 0.5 - 2.5 mm² 0.5 - 4 mm² 250 V/4 kV/3 12 No. 22 - 12 AWG 300 V 15 No. 24 - 12 AWG 300 V 15 5 mm 9 mm

WK 2.5 U /D/ 8113 S/V / LED 25

fine stranded solid	V	А
0.5 – 2.5 mm ² 0.5 – 4 mm ²	1)	12
No. 22 – 12 AWG	300 V	15
No. 24 – 12 AWG	25 V 1)	15
5 mm		9 mm

Width Wire strip length Approvals **FLIR B**117 Std. pack WK 2,5 U/D/8113 S/V...***) Feed through block Color: gray 57.503.2155.0 50 Feed through block with LED 25 V WK 2,5 U/D/8113 S/V/LED 25***) Color: gray 57.503.2255.0 50 Feed-through block with LED 50 V Color: gray Power supply block Color: blau Feed through block with header connection For insulated headers type 8113 see page 297 Accessories Mounting rail TS 35 DIN rail 7.5 mm high L = 2 mMounting rail TS 35, DIN rail, 15mm high L = 2 mMounting rail 32 G rail L = 2 mEnd clamp with U foot 10 mm wide End clamp TS 35 with screw 8 mm wide End clamp TS 32 with screw 7.5 mm wide End plate, 2.5 mm thick AP 2,5 U/D/8113 S/V ***) 07.311.9055.0 10 Color: gray AP 2,5 U/D/8113 S/V***) 07.311.9055.0 10 End plate, 2.5 mm thick Color: blue Partition, 2.5 mm thick Color: gray ZP 2,5 U/D/8113 S/V 07.311.9155.0 10 07.311.9155.0 10 7P 2.5 U/D/8113 S/V Partition, 2.5 mm thick Color: blue (for PC board headers in 7.5 mm spacing) insulated Cross connector with screws. E-Cu IVB WK 2,5-2 Z7.280.2227.0 10 Z7.280.2227.0 10 2pole IVB WK 2,5-2 IVB WK 2,5-3 Z7.280.2327.0 Z7.280.2327.0 3pole IVB WK 2,5-3 IVB WK 2.5-12 up to 12pole 77.280.3227.0 77.280.3227.0 IVB WK 2,5-12 05.561.4125.0 Jumper rail, tin-plated brass L = 0.4 m05.561.4125.0 ADVB 5/10 P 04.342.3556.8 Cover strip for LED (transparent) 04.342.3556.8 ADVB 5/10 P Single cover for cross connector with marking capabil. ADVB 2.5 GFLB 04.326.2053.8 04.326.2053.8 ADVB 2,5 GELB 10 Cover strip for header 24pole 04.343.9056.8 04.343.9056.8 10 Cover strip for header with warning symbol 24pole 04.343.9156.8 04.343.9156.8 Partition plate TS 2.5 GELB 07.311.2053.8 TS 2,5 GELB 07.311.2053.8 Coding piece (strip) 05.561.0053.0 100 05.561.0053.0 100

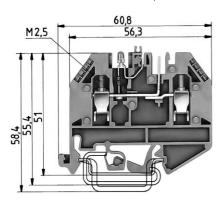
For marking accessories see page 394

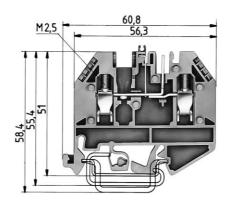
Wiecon

Indicator: R = 10 K; 0.5 W

Signal color: red

 $^{^{\}rm 1)}$ for blocks with indicator determined by LED





WK 2.5 U /D/ 8113 S/V / LED 50

WK 2.5 U /D/ 8113 S/V /VK

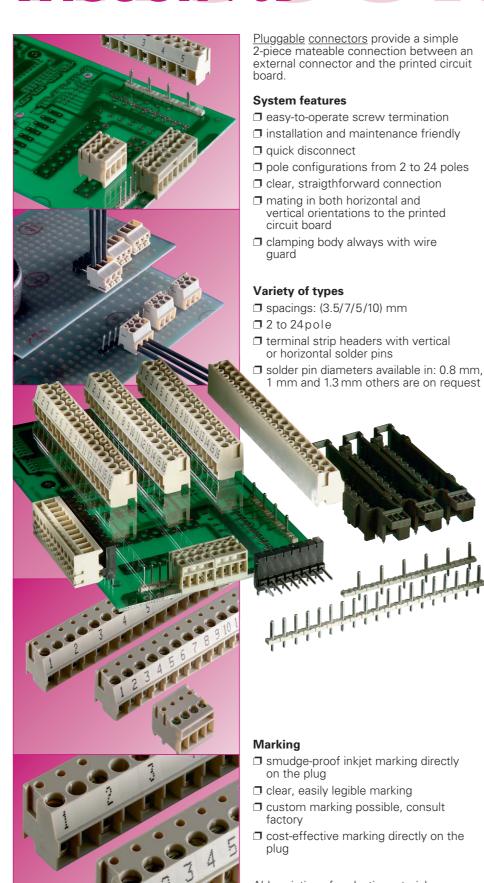
fine stranded solid	V	Α
0.5 – 2.5 mm ² 0.5 – 4 mm ²	1)	12
No. 22 – 12 AWG	300 V	15
No. 24 – 12 AWG	50 V 1)	15
5 mm		9 mm
@ <i>LR</i>		

fine stranded solid	V	Α
$0.5 - 2.5 \text{ mm}^2 \ 0.5 - 4 \text{ mm}^2$	250 V/4 kV/3	12
No. 22 – 12 AWG	300 V	15
No. 24 – 12 AWG	300 V	15
5 mm		9 mm
91/8		

	_		74 (1)	_	
Гуре	Part no.	Std. pack	Туре	Part no.	Std. pack
WK 2,5 U/D/8113 S/V/LED 50**	*) 57 502 2	255 0 50			
VVN 2,5 U/U/0113 3/V/LED 50	7 57.505.2	355.0 50	WK 2,5 U/D/8113 S/V/VK***)	E7 E02 2EE	E 6 E 0
			VVN 2,3 U/U/0113 3/V/VN	57.503.255	5.6 50
AD 2 F II/D /0442 C A / ***	07.014.0	055 0 10			
AP 2,5 U/D/8113 S/V ***)	07.311.9	055.0 10	AD 0 E II /D /0440 0 A/ DI ***		
			AP 2,5 U/D/8113 S/V BL***	07.311.905	5.6 10
ZP 2,5 U/D/8113 S/V	07.311.9	155.0 10			
			ZP 2,5 U/D/8113 S/V BL	07.311.915	5.6 10
IVP W/V 2 E 2	77 200 2	227.0.10	IVB WK 2,5-2	77 200 222	7.0 10
IVB WK 2,5-2 IVB WK 2,5-3		227.0 10 327.0 10	IVB WK 2,5-2	Z7.280.222 Z7.280.232	
IVB WK 2,5-12			IVB WK 2,5-3		
אוא טאו ביט-12		227.0 10	אוי טער ב,ט־1	Z7.280.322	
ADVD E /10 D	05.561.4		ADV/D E /10 P	05.561.412	
ADVB 5/10 P		556.8 10	ADVB 5/10 P	04.342.355	
ADVB 2,5 GELB		053.8 10	ADVB 2,5 GELB	04.326.205	
		056.8 10		04.343.905	
T0.0 F.0 F.D		156.8 10	TO 0 F 0FLD	04.343.915	
TS 2,5 GELB		053.8 10	TS 2,5 GELB	07.311.205	
	05.561.0	053.0100		05.561.005	3.0 100

Pluggable PC board connectors with pin-strip headers

wiecon PCB



Material

<u>Insulating housings:</u>

 use of high-quality polycarbonate for its excellent electrical, mechanical and chemical characteristics (see facts & DATA)

Metal parts:

- made of special alloys and/or special surface platings
- ☐ minimum feed through resistance
- ☐ high corrosion resistance
- ☐ secure, consistent clamping function
- ☐ clamping body: nickel-plated brass
- ☐ clamping screw: steel, zinc-plated and dichromated
- plug contact of type 8142 and ST 29: tin-plated bronze plug contact of type 8543: nickel-plated brass
- wire guard: tin-plated bronze

Pin-strip headers:

- ☐ Insulating part: made from high-quality Polyamide 66/6
- ☐ glass-fibre reinforcement for dimensional stability
- ☐ Metal parts: contact pin: tin plated brass

Note:

The information regarding cross sectional areas and connection types pertains to connections without ferrules.

The indicated rated current pertains to the maximum load of the PC board connector with a connected wire of the indicated rated cross section.

The rated voltage is indicated as per DIN VDE 0110 part 1 (IEC 60 664-1) – insulation coordination for electrical material in low voltage application – and refers to the delivered state of the PC board connector.

Before the PC board is fitted with connectors, an appropriate PC board must be selected and dimensioned accordingly (e.g. regarding tracking resistance of the printed circuit board, distances of the leads and solder joints). Furthermore, the ambient conditions under which the device is to be used (pollution degree) must be considered.

The indicated rated voltages will be valid for the complete module only if the printed circuit board and its connectors are correctly and carefully matched to each other.

Abbreviations for plastic materials:

PA 66/6 = Polyamide 66/6

PC = Polycarbonate PBT = Polybutylenterephthalate

Page 318 | Page 320

wiecon

	Page 316	Page 318	Page 320
Туре	8543	8142	ST 29
Spacing mm	3.50/7.00	5.00/10.00	5.08
Cross section mm ²	1	2.5	1.5
Number of poles	2 – 24	2 – 24	10



PC board connectors

pluggable, spacings: 3.50/7.00 mm

wiecon PC

Rated cross section: 1.0 mm²

Rated current: 6 A

Connection range: $0.14 - 1.5 \, \text{mm}^2 \, \text{solid}/$ 0.14 - 1.0 mm² fine stranded

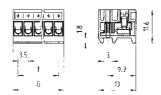
160 V/2.5 kV/3 - Overvoltage category III 250 V/2.5 kV/2 - Overvoltage category II *690 V/2.5 kV/1 - Overvoltage category I

* max. 600 V for ungrounded networks or expected overvoltage \leq 3 kV for L \geq 2.0 mm and \leq 2.5 kV for 2.0 mm > L \geq 1.5 mm

Rated voltages: VDE 0110 (spacing: 3.5 mm)

UL ratings CSA ratings Approvals

Spacing: 3.50 mm







Color: gray

Spacing: 3.50 mm

Color: black Solder pin Ø 0.8 mm
Bore hole Ø 1.0 mm
Bore hole Ø 1.3 mm

Terminal strip header

vertical mount

Type 8543

plug-in 90° to wire entry

No. 22 - 16 AWG 300 V 10 A No. 22 - 16 AWG 300 V 10 A **(‡)71.(‡)**

(2)

Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 3.50 mm				unmarked	marked	Color: gray	Color: black
100	7.0	3.5	2	25.602.5253.0	25.600.5253.0	Z5.531.0225.0	Z5.531.3225.0
100	10.5	7.0	3	25.602.5353.0	25.600.5353.0	Z5.531.0325.0	Z5.531.3325.0
50	14.0	10.5	4	25.602.5453.0	25.600.5453.0	Z5.531.0425.0	Z5.531.3425.0
50	17.5	14.0	5	25.602.5553.0	25.600.5553.0	Z5.531.0525.0	Z5.531.3525.0
50	21.0	17.5	6	25.602.5653.0	25.600.5653.0	Z5.531.0625.0	Z5.531.3625.0
50	24.5	21.0	7	25.602.5753.0	25.600.5753.0	Z5.531.0725.0	Z5.531.3725.0
50	28.0	24.5	8	25.602.5853.0	25.600.5853.0	Z5.531.0825.0	Z5.531.3825.0
50	31.5	28.0	9	25.602.5953.0	25.600.5953.0	Z5.531.0925.0	Z5.531.3925.0
50	35.0	31.5	10	25.602.6053.0	25.600.6053.0	Z5.531.1025.0	Z5.531.4025.0
50	38.5	35.0	11	25.602.6153.0	25.600.6153.0	Z5.531.1125.0	Z5.531.4125.0
50	42.0	38.5	12	25.602.6253.0	25.600.6253.0	Z5.531.1225.0	Z5.531.4225.0
50	45.5	42.0	13	25.602.6353.0	25.600.6353.0	Z5.531.1325.0	Z5.531.4325.0
50	49.0	45.5	14	25.602.6453.0	25.600.6453.0	Z5.531.1425.0	Z5.531.4425.0
50	52.5	49.0	15	25.602.6553.0	25.600.6553.0	Z5.531.1525.0	Z5.531.4525.0
50	56.0	52.5	16	25.602.6653.0	25.600.6653.0	Z5.531.1625.0	Z5.531.4625.0
17	to 24nole	unon ro	auoct				

17 to 24pole upon request

Spacing: 7.00 mm upon request

Rated voltages:

(spacing: 7 mm): VDE 0110

400 V/6 kV/3 – Overvoltage category III 690 V/6 kV/2 – Overvoltage category II 1000 V/6 kV/1 – Overvoltage category I

Material:

PC board connectors

Insulating housing: PC gray, UL 94-V-0 Clamping body with female contact:

tin-plated brass

Clamping screw: zinc-plated steel Wire protection: tin-plated bronze

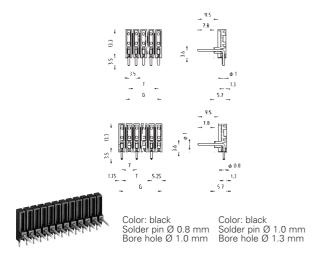
Terminal strip header

Insulating part: PA 66/6, glass-fibre reinforced gray or black, UL 94-V-0

Contact pin: tin-plated brass

wiecon

Spacing: 3.50 mm



Terminal strip header

horizontal mount

\$71@Part no.

Part no.	Part no.
Color: black	Color: black
Z5.532.0225.0	Z5.532.3225.0
Z5.532.0325.0	Z5.532.3325.0
Z5.532.0425.0	Z5.532.3425.0
Z5.532.0525.0	Z5.532.3525.0
Z5.532.0625.0	Z5.532.3625.0
Z5.532.0725.0	Z5.532.3725.0
Z5.532.0825.0	Z5.532.3825.0
Z5.532.0925.0	Z5.532.3925.0
Z5.532.1025.0	Z5.532.4025.0
Z5.532.1125.0	Z5.532.4125.0
Z5.532.1225.0	Z5.532.4225.0
Z5.532.1325.0	Z5.532.4325.0
Z5.532.1425.0	Z5.532.4425.0
Z5.532.1525.0	Z5.532.4525.0
Z5.532.1625.0	Z5.532.4625.0

PC board connectors

pluggable, spacings: 5.00/10.00 mm

iecon

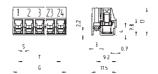
Rated cross section: 2.5 mm²

Rated current: 8 A

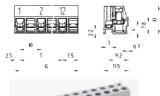
Connection range: 0.14 – 4.0 mm² solid/ 0.14 – 2.5 mm² fine stranded

200 V/4 kV/3 - Overvoltage category III 250 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

Spacing: 5.00 mm



Spacing: 10.00 mm







Type 8142

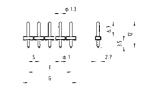
plug-in 90° to wire entry

Rated voltages: VDE 0110 (spacing 5 mm) UL ratings CSA ratings No. 22 - 12 AWG

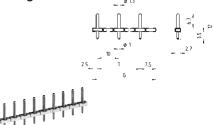
No. 22 - 12 AWG

300 V 15 A 300 V 15 A

Spacing: 5.00 mm



Spacing: 10.00 mm



Color: gray Color: black Solder pin Ø 1.0 mm Bore hole Ø 1.3 mm Bore hole Ø 1.6 mm

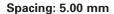
Terminal strip header

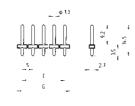
vertical mount

Approvals				🖆 🗓 🗚 🔞 🕾		🞰 🕏 🕦 🏵	
Std. pack	G	Т	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00 mm				unmarked	marked	Color: gray	Color: black
100 100 50	10 15 20	5 10 15	2 3 4	25.602.2253.0 25.602.2353.0 25.602.2453.0	25.600.2253.0 25.600.2353.0 25.600.2453.0	Z5.530.0225.0 Z5.530.0325.0 Z5.530.0425.0	Z5.530.3225.0 Z5.530.3325.0 Z5.530.3425.0
50 50 50	25 30 35	20 25 30	5 6 7	25.602.2553.0 25.602.2653.0 25.602.2753.0	25.600.2553.0 25.600.2653.0 25.600.2753.0	Z5.530.0525.0 Z5.530.0625.0 Z5.530.0725.0	Z5.530.3525.0 Z5.530.3625.0 Z5.530.3725.0
50 50 50	40 45 50	35 40 45	8 9 10	25.602.2853.0 25.602.2953.0 25.602.3053.0	25.600.2853.0 25.600.2953.0 25.600.3053.0	Z5.530.0825.0 Z5.530.0925.0 Z5.530.1025.0	Z5.530.3825.0 Z5.530.3925.0 Z5.530.4025.0
50 50 50	55 60 65	50 55 60	11 12 13	25.602.3153.0 25.602.3253.0 25.602.3353.0	25.600.3153.0 25.600.3253.0 25.600.3353.0	Z5.530.1125.0 Z5.530.1225.0 Z5.530.1325.0	Z5.530.4125.0 Z5.530.4225.0 Z5.530.4325.0
50 50 50	70 75 80	65 70 75	14 15 16	25.602.3453.0 25.602.3553.0 25.602.3653.0	25.600.3453.0 25.600.3553.0 25.600.3653.0	Z5.530.1425.0 Z5.530.1525.0 Z5.530.1625.0	Z5.530.4425.0 Z5.530.4525.0 Z5.530.4625.0
1	7 to 24pole	upon re	quest				
Spacing: 10.00 mm				unmarked	marked		
50 50 50	20 30 40	10 20 30	2 3 4	25.603.1253.0 25.603.1353.0 25.603.1453.0	25.601.1253.0 25.601.1353.0 25.601.1453.0	Z5.530.6225.0 Z5.530.6325.0 Z5.530.6425.0	Z5.530.8225.0 Z5.530.8325.0 Z5.530.8425.0
50 50 50	50 60 70	40 50 60	5 6 7	25.603.1553.0 25.603.1653.0 25.603.1753.0	25.601.1553.0 25.601.1653.0 25.601.1753.0	Z5.530.6525.0 Z5.530.6625.0 Z5.530.6725.0	Z5.530.8525.0 Z5.530.8625.0 Z5.530.8725.0
50	80 9 to 12pole	70 upon re	8 quest	25.603.1853.0	25.601.1853.0	Z5.530.6825.0	Z5.530.8825.0
Rated voltages: (spacing: 10.00 mm): VDE 0110 500 V/8 kV/3 – Overvoltage category III 800 V/8 kV/2 – Overvoltage category II 1000 V/8 kV/1 – Overvoltage category I				Material: PC board connect Insulating housing. Clamping body: nic Clamping screws: Contact spring: tin-	: PC gray, UL 94-V-0 ckel-plated brass zinc-plated steel		
				Terminal strip he Insulating part: PA gray or black, UL 9 Contact pin: tin-pla	66/6, glass-fibre reinforced 14-V-0		

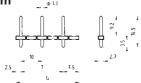
Accessories

Market Accessories Accessories Accessories





Spacing: 10.00 mm



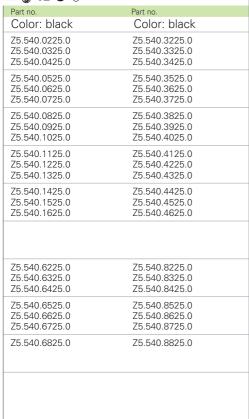


Color: black Solder pin Ø 1.0 mm Bore hole Ø 1.3 mm Color: black Solder pin Ø 1.3 mm Bore hole Ø 1.6 mm

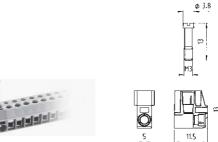
Terminal strip header

horizontal mount

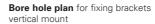


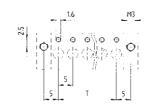


vertical mount



Std. pack





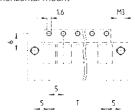
Part no.

Cover/marking strip 12 poles

horizontal mount



Bore hole plan for fixing brackets horizontal mount

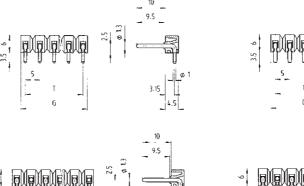


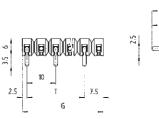
Part no.

Std. pack

Fixing brackets: Insulating material PA 66/6 gray, Screw M 3, zinc-plated steel					
	Z5.523.7653.0	100		Z5.523.7653.0	100
Coding piece strip Color: white Color: white	05.561.9453.0 05.561.9453.5	25 25	Coding piece strip Color: white Color: orange	05.561.9453.0 05.561.9453.5	25 25







PC board connectors, pluggable, spacing: 5.08 mm

iecon PCB



1.5 mm²

Rated cross section:

1.5 mm²

Rated current: 10 A

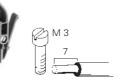
Connection range: 0.14 – 2.5 mm² solid/ 0.14 – 1.5 mm² fine stranded

200 V/4 kV/3 - Overvoltage category III 250 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

Statement of Conformity/CH

Rated voltages: VDE 0110 EN 60 998-1, EN 60 998-2-1 UL ratings CSA ratings Approvals





TOP connector, 10pole **Type ST 29/10 BC**

plug-in 90° to wire entry

1.5 mm² 250 V 10 A No. 22 - 14 AWG 300 V 5 A No. 22 - 14 AWG 300 V 5 A (£) 91 (£)



Solder pin \varnothing 1.3 mm Bore hole \varnothing 1.6 mm

Terminal strip header

vertical mount

	250 V	10 A
(if all terminals carry current)		10 A
	300 V	5 A

(\$) **91** (£)

-		Poles	Туре	Part no.	Std. pack	Туре	Part no.	Std. pack
	Spacing: 5.08 mm							
		10	ST 29/10 BC	93.101.2053.0	50		Z5.599.9025.0	50

Material:

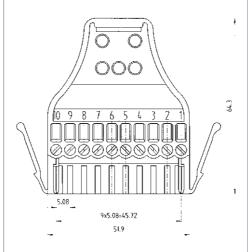
PC board connectors

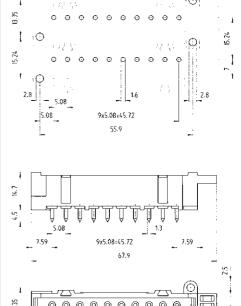
Insulating housing: PA 66/6 gray, UL 94-V-2 Clamping body: nickel-plated brass Clamping screws: zinc-plated steel Contact spring: tin-plated bronze

Terminal strip header

Insulating part: PBT, glass-fibre reinforced gray, UL 94-V-0

Contact pin: tin-plated brass

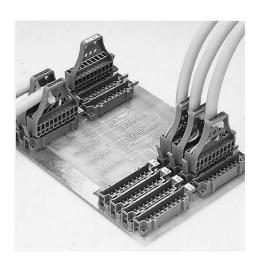




55.9

Accessories

Wiecon



		Type	Part no.	Std. pack
Accessories				
Codir Mark	ng pieces, 10 codings each per strip ing tag, unmarked marked	9705 A 9705 AB	05.599.8053.0 04.242.0850.0 04.842.0850.0	100 500 500
Coding plan L = PC board conn S = terminal strip if Combination 02 Combination 03 Combination 04 Combination 05 Combination 07 Combination 07 Combination 09 Combination 10 Combination 11 Combination 12 Combination 13 Combination 14 etc.				

Pluggable terminal strip header with TOP connection

A special version of the TOP system is the 5.08 mm spaced terminal strip header which can be soldered into a PC board. Two mounting holes are available in order to fix the terminal strip header.

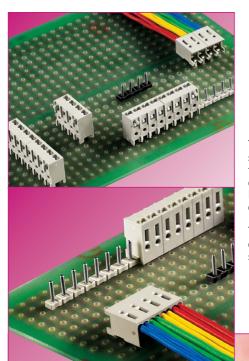
- Strain relief
- Locking device
- Marking capabilities

By means of dove-tail guides, several terminal strip headers can be snapped together, while only the outer headers of this group must be mechanically fixed on the printed circuit board. In order to guarantee the necessary stability on the printed circuit board, it is not recommended to exceed four terminal strip headers in a group.

strip headers in a group.
The terminal TOP connector and terminal strip header each possess eight slots for coding to prevent mismating the TOP plug-in system.

Spring clamp connector for PC boards Type 8520 B, pluggable design

wiecon PCB



The advantage of a PC board connector with spring clamp termination is that connections to the PC board can be made in a fast and economical way. Based on this fact, Wieland Electric GmbH developed their new PC board connector type 8520.

The main field of application for this PC board connector is in communication technology, a sector which demands fast connections.



- no clamping screws
- ☐ minimized wiring times
- ☐ permanent and continuous clamping
- vibration- and shock-proof
- ☐ maintenance-free

Different versions of type 8520 expand the spectrum of applications. It is available as a pluggable connector with matching pin strip, and in a direct mount solder version with vertical and horizontal solder pins. The rated cross section is 0.5 mm² solid, which makes the wiring process easy: simply push the solid conductor into the clamp, forcing it open, no tools required. The spring clamp tension will securely terminate the conductor. The spacing is 3.5 mm and the pole configerations vary between 2 and 16 poles.



	Page 324	Page 325	Page 325
	+	7-	
Туре	8520 B	8520 BL/W	8520 BL/G
Spacing mm	3.50/7.00	3.50/7.00	3.50/7.00
Cross section mm ²	0.25 0.50	0.25 - 0.50	0.25 0.50
Cross section mm-	0.25 - 0.50	0.25 - 0.50	0.25 - 0.50
Number of poles	2 – 16	2 – 16	2 – 16



Spring clamp connector for PC boards, Type 8520, pluggable, spacings: 3.50/7.00 mm, 2 x 0.5 mm²

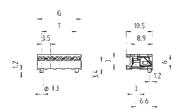
wiecon PCB

Rated cross section: 0.5 mm²

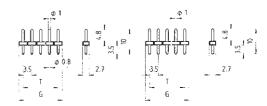
Rated current: 4 A

Connection range: 0.25 - 0.5 mm² solid 2 connections per pole

160 V/2.5 kV/3 – Overvoltage category III 250 V/2.5 kV/2 – Overvoltage category II *690 V/2.5 kV/1 – Overvoltage category I Spacing: 3.50 mm



Spacing: 3.50 mm



* max. 600 V for ungrounded networks or expected overvoltage ≤ 3 kV for L ≥ 2.0 mm and ≤ 2.5 kV for 2.0 mm > L ≥ 1.5 mm



Color: gray Solder pin Ø 0.8 mm Bore hole Ø 1.0 mm

Color: black Solder pin Ø 1.0 mm Bore hole Ø 1.2 mm

Type 8520 B

plug-in horizontal and vertical

No. 24 – 20 AWG No. 24 – 20 AWG 300 V 4 A 300 V 4 A Pin strip 8520 S

vertical mount

Rated voltages: VDE 0110 (Spacing: 3.5 mm) UL ratings CSA ratings Approvals

Part no. Part no. Part no. Part no. unmarked Spacing: 3.50 mm Color: black marked Color: gray 1000 25.470.0253.0 25.470.3253.0 Z5.535.0225.0 Z5.535.3225.0 1000 10.5 7.0 3 25 470 0353 0 25.470.3353.0 75 535 0325 0 75 535 3325 0 1000 10.5 25.470.0453.0 25.470.3453.0 Z5.535.0425.0 Z5.535.3425.0 14 0 4 500 17.5 14.0 25.470.0553.0 25.470.3553.0 Z5.535.0525.0 Z5.535.3525.0 500 21.0 17.5 6 7 25 470 0653 0 25.470.3653.0 75 535 0625 0 75 535 3625 0 500 24.5 21.0 25.470.0753.0 25.470.3753.0 75.535.0725.0 Z5.535.3725.0 500 28.0 24.5 25.470.0853.0 25.470.3853.0 Z5.535.0825.0 Z5.535.3825.0 250 31.5 28.0 25.470.0953.0 25.470.3953.0 Z5.535.0925.0 Z5.535.3925.0 250 35.0 31.5 10 25.470.1053.0 25.470.4053.0 Z5.535.1025.0 Z5.535.4025.0 250 38.5 35.0 25.470.1153.0 25.470.4153.0 Z5.535.1125.0 Z5.535.4125.0 250 42.0 38.5 25.470.1253.0 25.470.4253.0 Z5.535.1225.0 Z5.535.4225.0 250 45.5 42.0 13 25.470.1353.0 25.470.4353.0 Z5.535.1325.0 Z5.535.4325.0 250 49.0 45.5 25.470.1453.0 25.470.4453.0 Z5.535.1425.0 Z5.535.4425.0 25.470.1553.0 250 25.470.4553.0 Z5.535.1525.0 Z5.535.4525.0 49.0 15 250 52.5 25.470.1653.0 25.470.4653.0 Z5.535.1625.0 Z5.535.4625.0

Spacing: 7.00 mm upon request

Rated voltages:

(spacing: 7.00 mm): VDE 0110

400 V/6 kV/3 – Overvoltage category III 690 V/6 kV/2 – Overvoltage category II 1000 V/6 kV/1 – Overvoltage category I

Material:

PC board connectors

Insulating housing: PA 66/6, UL 94-V0 Clamping spring: special copper alloys

tin-plated

Pin strips

Insulating part: PA 66/6, glass-fibre reinforced gray or black, UL 94-V-0

Contact pin: tin-plated brass

Spring clamp connector for PC boards, Type 8520 BL, direct mount spring clamp Spacings: 3.50/7.00 mm, 2 x 0.5 mm²

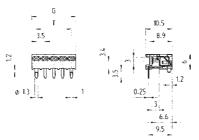
Rated cross section: 0.5 mm²

Rated current: 4 A

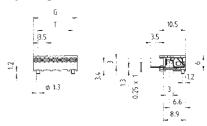
Connection range: 0.25 – 0.5 mm² solid 2 connections per pole

160 V/2.5 kV/3 – Overvoltage category III 250 V/2.5 kV/2 – Overvoltage category II *690 V/2.5 kV/1 – Overvoltage category I

Spacing: 3.50 mm



Spacing: 3.50 mm





Solder pin 0.25 x 1.0 mm Bore hole Ø 1.1 mm





≤ 2.5 kV for 2.0 mm > L ≥ 1.5 mm

overvoltage \leq 3 kV for L \geq 2.0 mm and

Rated voltages: VDE 0110

UL ratings CSA ratings Approvals pending

Type 8520 BL/...W

Wire horizontal to PC board

No. 24 – 20 AWG No. 24 – 20 AWG 300 V 4 A 300 V 4 A

No. 24 – 20 AWG No. 24 – 20 AWG

Type 8520 BL/...G

Wire vertical to PC board

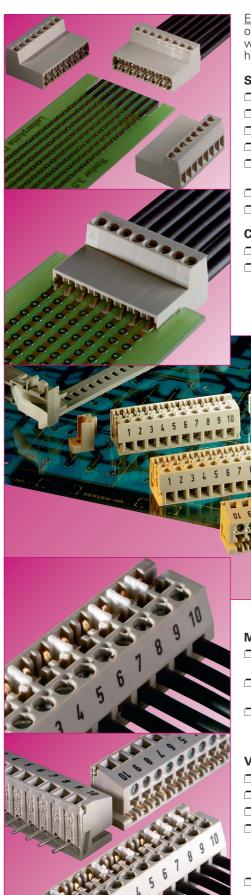
300 V 4 A 300 V 4 A

91/8

Std. pack	G	Т	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 3.50 mm				unmarked	marked	unmarked	marked
1000 1000 1000	7.0 10.5 14.0	3.5 7.0 10.5	2 3 4	25.471.0253.0 25.471.0353.0 25.471.0453.0	25.471.3253.0 25.471.3353.0 25.471.3453.0	25.472.0253.0 25.472.0353.0 25.472.0453.0	25.472.3253.0 25.472.3353.0 25.472.3453.0
500 500 500	17.5 21.0 24.5	14.0 17.5 21.0	5 6 7	25.471.0553.0 25.471.0653.0 25.471.0753.0	25.471.3553.0 25.471.3653.0 25.471.3753.0	25.472.0553.0 25.472.0653.0 25.472.0753.0	25.472.3553.0 25.472.3653.0 25.472.3753.0
500 250 250	28.0 31.5 35.0	24.5 28.0 31.5	8 9 10	25.471.0853.0 25.471.0953.0 25.471.1053.0	25.471.3853.0 25.471.3953.0 25.471.4053.0	25.472.0853.0 25.472.0953.0 25.472.1053.0	25.472.3853.0 25.472.3953.0 25.472.4053.0
250 250 250	38.5 42.0 45.5	35.0 38.5 42.0	11 12 13	25.471.1153.0 25.471.1253.0 25.471.1353.0	25.471.4153.0 25.471.4253.0 25.471.4353.0	25.472.1153.0 25.472.1253.0 25.472.1353.0	25.472.4153.0 25.472.4253.0 25.472.4353.0
250 250 250	49.0 52.5 56.0	45.5 49.0 52.5	14 15 16	25.471.1453.0 25.471.1553.0 25.471.1653.0	25.471.4453.0 25.471.4553.0 25.471.4653.0	25.472.1453.0 25.472.1553.0 25.472.1653.0	25.472.4453.0 25.472.4553.0 25.472.4653.0
Spacing: 7.00 mm	up	on req	uest				
Rated voltages: (Spacing: 7.00 mm): VDE 400 V/6 kV/3 – Overvol 690 V/6 kV/2 – Overvol 1000 V/6 kV/1 – Overvol	tage cat tage cat	egory l	1				
Bore hole plan, 3.50/7.00 with angled solder pin ar							
	1.2	8.2 ±0.05					
	. 0	0 3	4				

PC board connectors edge card pluggables

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Edge card pluggables offer the advantages of standard pluggable connectors, but without the requirement of the mounting header.

System features

- installation and maintenance friendly
- ☐ easy-to-operate screw termination
- quick disconnect
- clear, organized wiring
- ☐ thickness of PC board: 1.4 mm to 1.8 mm
- ☐ floating contact springs
- ☐ secure, robust clamping mechanism

Coding

- □ coding without pole loss
- PC board with coding slots accept coding pieces inserted into the plug

Marking

- smudge-proof inkjet marking directly on the connector
- custom marking possible, consult factory
- clear, easily legible marking

Variety of types

- ☐ in 3.5 mm and 5 mm spacing
- pole configurations from 2 to 24 poles
- ☐ cross sections up to 1.5 mm²
- with open side walls: snap together adjacently. or with closed side walls: prevent mis-mating
- with or without solder pins

Fixing brackets

- ☐ for secure connection of printed circuit board and connector
- special fixing brackets as guides for large PC boards. With fixing bolts on the sides at the top and bottom which fix backing strips creating a stable guiding frame.

Material

Metal parts:

- ☐ made from special alloys and/or special surface treatments
- ☐ minimum feed through resistance
- ☐ high corrosion resistance

Insulating housings:

- ☐ use of high-quality polyamide for its excellent electrical, mechanical and chemical characteristics (see **facts** & DATA: Technical information)
- ☐ materials as per US standard UL 94-V-0
- ☐ colors: gray, similar to RAL 7032

Note:

The information regarding cross sectional areas and connection types pertains to connections without ferrules.

The indicated rated current corresponds to the maximum load for the PC board connector with a connected wire of the indicated rated cross section.

The rated voltage is indicated as per DIN VDE 0110 part 1 (IEC 60 664-1) – insulation coordinates for electrical material in low voltage application – and refers to the delivered state of the PC board connector.

Before the PC board is fitted with connectors, an appropriate PC board must be selected and dimensioned accordingly (e.g. regarding tracking resistance of the printed circuit board, distances of the leads and solder joints).

Furthermore, the ambient conditions under which the materials shall be used, must be considered.

The indicated rated voltages will be valid for the complete module only if the printed circuit board and its connectors are correctly and clearly adjusted to each other.

Abbreviations for plastic materials:

PA 66/6 = Polyamide 66/6 PC = Polycarbonate

PBT = Polybutylenterephthalate

	Page 328	Page 328	Page 330	Page 330
Туре	DST 85	DSTLF 85	LPST 1	LPSTL 1
Spacing mm	3.50	3.50	5.00	5.00
Cross section mm ²	1.5	1.5	2.5	2.5
Number of poles	2 – 24	2 – 24	2 – 20	2 – 20

For all solderable PC board terminals it is important that recommended torque values are not exceeded.



PC board connectors edge card pluggables, spacing: 3.50 mm

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Rated cross section:

1.5 mm²

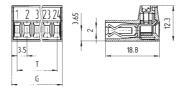
Rated current:

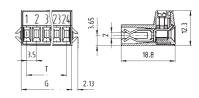
6 A

Connection range:

0.14 - 1.5 mm² solid/fine stranded

125 V/2.5 kV/3 – Overvoltage category III 250 V/2.5 kV/2 – Overvoltage category II *690 V/2.5 kV/1 – Overvoltage category I





* max. 600 V for ungrounded networks or expected overvoltage ≤ 3 kV for L ≥ 2.0 mm and ≤ 2.5 kV for 2.0 mm > L ≥ 1.5 mm









Type DST 85

plug-in 180° to wire entry

Rated voltages: VDE 0110 UL ratings CSA ratings Approvals

No. 30 – 14 AWG No. 30 – 14 AWG (\$) SEV **N**(\$) 300 V 6 A 300 V 6 A **Type DST LF 85** plug-in 180° to wire entry

No. 30 – 14 AWG 300 V 6 A No. 30 – 14 AWG 300 V 6 A (2) \(\hbar \) \(\hbar \) \(\hbar \)

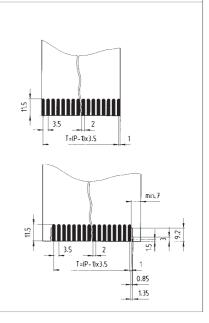
Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 3.50 mm				unmarked	marked	unmarked	marked
100	7.1	3.4	2	25.003.0253.0	25.002.0253.0	25.005.0253.0	25.004.0253.0
100	10.5	6.8	3	25.003.0353.0	25.002.0353.0	25.005.0353.0	25.004.0353.0
50	14.0	10.3	4	25.003.0453.0	25.002.0453.0	25.005.0453.0	25.004.0453.0
50	17.5	13.8	5	25.003.0553.0	25.002.0553.0	25.005.0553.0	25.004.0553.0
50	21.0	17.3	6	25.003.0653.0	25.002.0653.0	25.005.0653.0	25.004.0653.0
50	24.5	20.8	7	25.003.0753.0	25.002.0753.0	25.005.0753.0	25.004.0753.0
50	28.0	24.3	8	25.003.0853.0	25.002.0853.0	25.005.0853.0	25.004.0853.0
50	31.5	27.8	9	25.003.0953.0	25.002.0953.0	25.005.0953.0	25.004.0953.0
50	35.0	31.3	10	25.003.1053.0	25.002.1053.0	25.005.1053.0	25.004.1053.0
50	38.5	34.8	11	25.003.1153.0	25.002.1153.0	25.005.1153.0	25.004.1153.0
50	42.0	38.3	12	25.003.1253.0	25.002.1253.0	25.005.1253.0	25.004.1253.0
on	only available up to 12pole						

Thickness of PC board: 1.4 mm - 1.8 mm

Material:

PC board connectors

Insulating housing: PA 66/6 gray, UL 94-V0 Clamping body: nickel-plated brass Clamping screw: zinc-plated steel Contact spring: tin-plated bronze



PC board connector card edge design, spacing: 5.00 mm

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Rated cross section:

2.5 mm²

Rated current:

5 A

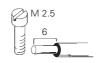
Connection range: 0.14 - 4.0 mm² solid/ 0.14 - 2.5 mm² fine stranded

200 V/4 kV/3 - Overvoltage category III 320 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I









300 V

300 V

5 A

5 A





without solder connection for PC boards

Type LPST 1

plug-in 90° to wire entry

Rated voltages VDE 0110 **UL** ratings CSA ratings Approvals

No. 22 - 14 AWG

No. 22 - 14 AWG

for PC boards Type LPSTL 1 plug-in 90° to wire entry

with solder connection

No. 22 - 14 AWG 300 V 5 A No. 22 - 14 AWG 300 V 5 A

10/18

Std. pack	U	G	Т	Poles	Part no.	Part no.	Part no.
Spacing: 5.00 mn	n				marked	unmarked	marked
100	25	14	5	2	25.000.0256.0	25.010.0256.0	25.001.0256.0
100	30	19	10	3	25.000.0356.0	25.010.0356.0	25.001.0356.0
50	35	24	15	4	25.000.0456.0	25.010.0456.0	25.001.0456.0
50	40	29	20	5	25.000.0556.0	25.010.0556.0	25.001.0556.0
50	45	34	25	6	25.000.0656.0	25.010.0656.0	25.001.0656.0
50	50	39	30	7	25.000.0756.0	25.010.0756.0	25.001.0756.0
50	55	44	35	8	25.000.0856.0	25.010.0856.0	25.001.0856.0
50	60	49	40	9	25.000.0956.0	25.010.0956.0	25.001.0956.0
50	65	54	45	10	25.000.1056.0	25.010.1056.0	25.001.1056.0
50	70	59	50	11	25.000.1156.0	25.010.1156.0	25.001.1156.0
50	75	64	55	12	25.000.1256.0	25.010.1256.0	25.001.1256.0
50	80	69	60	13	25.000.1356.0	25.010.1356.0	25.001.1356.0
50	85	74	65	14	25.000.1456.0	25.010.1456.0	25.001.1456.0
50	90	79	70	15	25.000.1556.0	25.010.1556.0	25.001.1556.0
50	95	84	75	16	25.000.1656.0	25.010.1656.0	25.001.1656.0
	17	to 20pole	e upon re	equest			

Thickness of PC board: 1.4 mm - 1.8 mm

Material:

PC board connectors

Insulating housing: PBT, glass-fibre reinforced

Clamping body: nickel-plated brass Clamping screw: zinc-plated steel

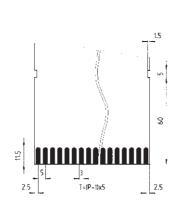
Accessories

Wiecon

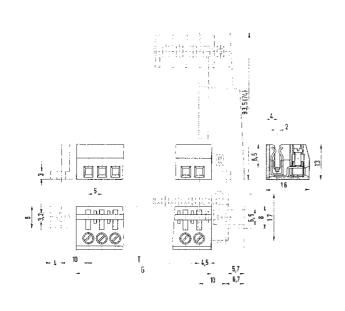


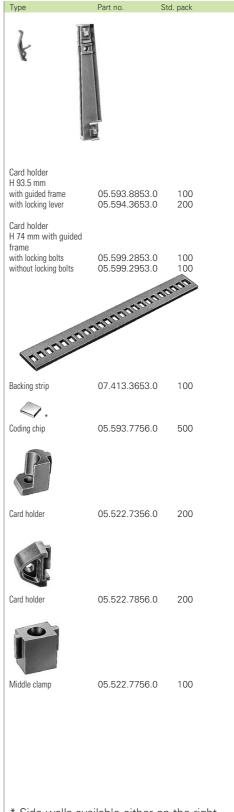
The PC board card edge connectors are fixed by means of card holders. For large printed circuit boards, card holders with guided frames are to be used.

These card holders have locking bolts at the top, the bottom and on both sides, on which backing strips can be fixed, creating a stable guide frame.





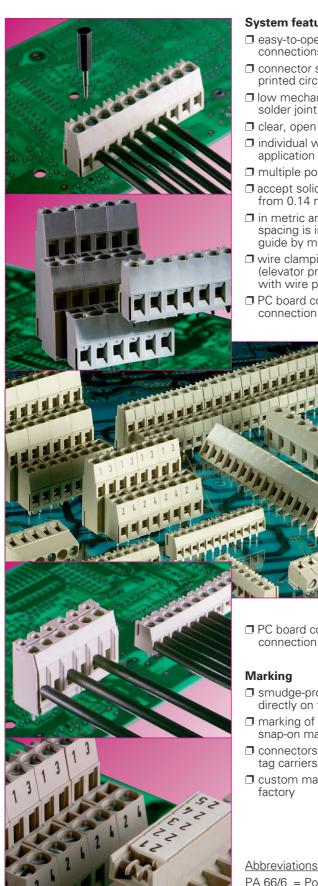




* Side walls available either on the right, or the left side or not at all, as the parts are cut to the required number of poles; therefore outside coding might not be possible.

PC board connectors

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System features

- ☐ easy-to-operate application-specific connections
- □ connector soldered directly onto the printed circuit board
- I low mechanical stress on the solder joint
- ☐ clear, open wire access
- ☐ individual wire entry as per application requirements
- multiple pole configurations
- accept solid and fine stranded wires from 0.14 mm² to 16 mm²
- in metric and inch spacing; inch spacing is indicated on the wire entry guide by means of a stud.
- ☐ wire clamping via rising cage clamp (elevator principle), clamping body with wire protection
- PC board connector with TOP connection

□ PC board connector with spring clamp connection

- smudge-proof inkjet marking directly on the connector
- marking of individual poles with snap-on marking tag
- connectors with or without marking
- custom marking possible, consult

Variety of types

- ☐ pole configurations from 2 to 24 poles
- ☐ wiring horizontal and vertical to the printed circuit board
- ☐ wiring in 45° or 35° angle possible
- in metric spacing: 3.5/5/7.5/10) mm or inch spacing: 3.81/5.08/7.62/10.16/20.32 mm
- ☐ individual connectors snap together
- ☐ multi-pole, single housing blocks
- ☐ with or without insulating plate
- with or without test fixture
- with or without fixing bolts

Material

Metal parts:

- ☐ made from special alloys and/or special surface treatments
- □ low feed through resistance
- ☐ high corrosion resistance
- ☐ secure, consistent clamping function

Insulating housings:
☐ use of high-quality Polyamide 66/6 for its excellent electrical, mechanical and chemical characteristics (for specifics, see individual connectors)

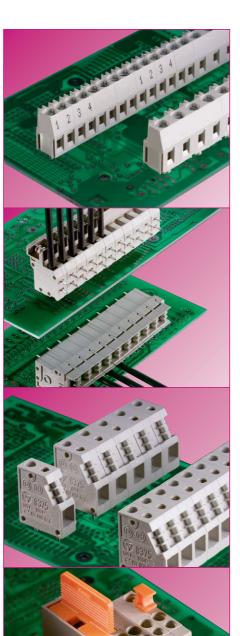
DQS certificates for all product families

- quality standard as per DIN ISO 9001
- ☐ in Development, Production, Assembly
- continued control of the quality standards by means of regular internal and external quality audits
- ☐ compatible with certificates of other countries:
 - BSI Certificate, Great Britain
 - SQS Certificate, Switzerland
 - Aib-Vincotte Certificate, Belgium
 - ÖQS Certificate, Austria

Abbreviations for plastic materials:

PA 66/6 = Polyamide 66/6 = Polycarbonate PC

PBT = Polybutylenterephthalate



Insulating plate

- covers the clamping body with a plastic plate
- the safety values for air and creepage distances and clearances of the traces of the PC board connector are increased
- fixing bolts on the insulating plate of 2 and 3pole connectors reduce the mechanical stress on the solder joint

TOP connection

- ☐ screw termination in same plane as wire entry
- ☐ easy access for the user in narrow spaces
- snap-on marking tag carrier
- double solder tails per pole

Single pole connectors

- ☐ single connectors snap together
- $\ \square$ secure, tight locking pins
- ☐ the spacing can be expanded by means of spacer plates
- ☐ available spacings: 5.00/5.08/6.35/7.50/7.62/10.00/ 10.16/20.32 mm
- with end plate
- ☐ two solder tails per pole

Special-purpose connectors

- snap together individually
- □ 5.08 mm spacing
- ☐ securely fixed to the printed circuit board by double solder tails
- ☐ feed through connector
- ☐ knife edge disconnect block
- ☐ fuse block with G fuse insert and integrated return conductor
- ☐ test plug for 2 mm or 3 mm test plug

Note:

The information regarding cross sectional areas and connection types pertains to connections without ferrules

The indicated rated current corresponds to the maximum load for the PC board with connected wire of the indicated rated cross section.

The rated voltage is indicated as per DIN VDE 0110 part 1 (IEC 60 664-1) – insulation coordination for electrical material in low voltage application – and refers to the delivered state of the PC board connector.

Before the PC board is fitted with connectors, an appropriate PC board must be selected and dimensioned accordingly (e.g. regarding tracking resistance of the lines and solder joints).

Furthermore, the ambient conditions under which the materials shall be used, must be considered.

The indicated rated voltages will be valid for the complete module only if the printed circuit board and PC board connectors are correctly and clearly adjusted to each other.

PC board connectors

wiecon PCB

PC board connectors		Q -	†		A -	_ [] -	-	Q -	A -		D -	<u> </u>	N		
Cross section (fine stranded)	Spacing						Ris	sing ca	ge cla	mp					
1 mm²	3.50	8593 p. 336													
	3.81	8893 p. 336													
1.5 mm ²	5.00/ 10.00	8192 p. 338	8192 ZW p. 339	8134 p. 360								8192 E p. 364		8195 D p. 372	8195 V p. 375
	5.08	8292 p. 338	8292 ZW p. 339	8234 p. 360	8292 H p. 341	8292 EH p. 340	8292 DH p. 340					8292 E p. 364			
	7.50														
	7.62														
2.5 mm ²	5.00/ 10.00	8190 p. 358 8191 p. 344	8191 ZW p. 345	8135 p. 362								8190 E p. 368 8191 E p. 357	8191 D p. 357		
	5.00	8191 R p. 342	8191 p. 344											8195 D p. 372	8195 V p. 373
	5.08	8291 R p. 342 8291 p. 357	8291 ZW p. 357	8235 p. 357								8291 E p. 357	8291 D p. 357		
	7.50	8390 p. 359 8491 p. 346	8391 ZW p. 347												
	7.62	8491 p. 346	8491 ZW p. 347												
4 mm ²	6.35												0		
	7.50														TA
	7.62														
	10.00													R	e (
10 mm ²	10.16							7572 L2 p. 376	7572 L4 p. 376	7573 L2/W p. 375					
	20.32										7572 L2 p. 376				

Wiecon

	-	<u> </u>	<u>(</u> -		4-	<u>.</u>		1	- 🖳		
OP con	nectio	n S	pecial	-purpo	ose co	nnecto	ors	Sp	ring cla	mp connec	tors
										8152 TOP V p. 348	8152 TOP H p. 348
										8152 TOP V p. 348	8152 TOP H p. 348
		S									
8185 TOP H p. 350	0 1							8158 TOP V p. 353	8158 TOP H p. 353		
8285 TOP H p. 350					8276 p. 378	8276 TKS p. 378	8276 Si-D p. 379	8258 TOP V p. 353	8258 TOP H p. 353		
8385 TOP H p. 352		"						8358 TOP V p.	8358 TOP H p.		
8485 TOP H p. 352			Ċ					8458 TOP V p. 354	8458 TOP H p. 354		
		7386 TOP H p. 355	5								
EF	8375 p. 374		Α.		72						
-	4	10	8486 TOP H p. 356	8486 TOP V p. 356							
	8375 p. 374										
	8185 TOP H p. 350 8285 TOP H p. 352 8485 TOP H	8185 TOP H p. 350 8285 TOP H p. 350 8385 TOP H p. 352 8485 TOP H p. 352	8185 TOP H p. 350 8285 TOP H p. 350 7386 TOP H p. 352 7386 TOP H p. 355 8375 p. 374	8185 TOP H p. 350 8385 TOP H p. 350 8385 TOP H p. 352 7386 TOP H p. 355 8375 p. 374 8486 TOP H p. 356	8185 TOP H p. 350 8285 TOP H p. 350 8385 TOP H p. 352 7386 TOP H p. 352 8485 TOP H p. 352 8486 TOP H p. 356 870 H p. 356	8185 TOP H p. 350 8385 TOP H p. 350 8385 TOP H p. 350 7386 TOP H p. 352 7386 TOP H p. 352 8485 TOP H p. 355 875 P. 374 8486 TOP H p. 356 8375 P. 374	8185 TOP H p. 350 8285 TOP H p. 350 8276 P. 378 8375 P. 374 8486 TOP H p. 355 8375 P. 374	### Special-purpose connectors ### ### ### ### ### ### ### ### ### #	### Special-purpose connectors Special-purp	8185 TOPH p. 360 8285 TOPH p. 360 8296 P. 378 TKS SHD p. 378 TOP V p. 383 TOP V p. 384 TOP V p. 385 TOP V p. 384 TOP V p. 384 TOP V p. 385 TOP V p. 385 TOP V p. 386 TOP V p	### Special-purpose connectors Spring clamp connectors

PC board connectors, rising cage clamp system

Spacing: 3.50/3.81 mm

econ

Rated cross section: 1.0 mm²

Rated current: 10 A

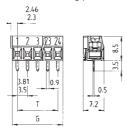
Connection range: 0.14 - 1.5 mm² solid/ 0.14 - 1.0 mm² fine stranded

160 V/2.5 kV/3 - Overvoltage category III *250 V/2.5 kV/2 – Overvoltage category II **690 V/2.5 kV/1 – Overvoltage category I

- * up to 400 V in overvoltage category I or expected overvoltage ≤ 3 kV for L \geq 2.0 mm and \leq 2.5 kV für 2.0 mm > L \geq 1.5 mm
- ** max. 600 V overvoltage expected overvoltage \leq 3 kV for L \geq 2.0 mm and ≤ 2.5 kV for 2.0 mm > L ≥ 1.5 mm

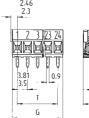
Rated voltages VDE 0110 **UL** ratings CSA ratings

without insulating plate



Solder pin 0.5 x 0.9 mm Bore hole Ø 1.1 mm

with insulating plate





300 V

300 V

Type 8593/8893

wire horizontal to PC board

No. 30 - 16 AWG No. 30 - 16 AWG



10 A

10 A

Material: Insulating housing: PA 66/6 gray, UL 94-V-2 Clamping body: nickel-plated brass Contact clip with solder pin: tin-plated bronze

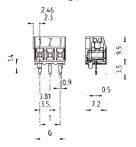
Clamping screw: zinc-plated steel

Brass Nickel-plated available upon request

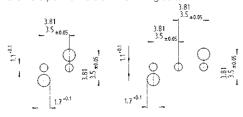
Approvals					\$ \$ 7.00	000 V 1071	available apoil requ	1631
	Std. pack	L	Т	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 3.5	0 mm				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
	100 100 50	7.0 10.5 14.0	3.5 7.0 10.5	2 3 4	25.195.0253.0 25.195.0353.0 25.195.0453.0	25.194.0253.0 25.194.0353.0 25.194.0453.0	25.195.9253.0 25.195.9353.0	25.194.9253.0 25.194.9353.0
	50 50 50	17.5 21.0 24.5	14.0 17.5 21.0	5 6 7	25.195.0553.0 25.195.0653.0 25.195.0753.0	25.194.0553.0 25.194.0653.0 25.194.0753.0		
	50 50 50	28.0 31.5 35.0	24.5 28.0 31.5	8 9 10	25.195.0853.0 25.195.0953.0 25.195.1053.0	25.194.0853.0 25.194.0953.0 25.194.1053.0		
	50 50 50	38.5 42.0 45.5	35.0 38.5 42.0	11 12 13	25.195.1153.0 25.195.1253.0 25.195.1353.0	25.194.1153.0 25.194.1253.0 25.194.1353.0		
	50 50 50	49.0 52.5 56.0	45.5 49.0 52.5	14 15 16	25.195.1453.0 25.195.1553.0 25.195.1653.0	25.194.1453.0 25.194.1553.0 25.194.1653.0		
	17	to 24pol	e upon re	equest				
Spacing: 3.8	1 mm				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
	100 100 50	7.62 11.43 15.24	3.81 7.62 11.43	2 3 4	25.197.0253.0 25.197.0353.0 25.197.0453.0	25.196.0253.0 25.196.0353.0 25.196.0453.0	25.197.9253.0 25.197.9353.0	25.196.9253.0 25.196.9353.0
	50 50 50	19.50 22.86 26.67	15.24 19.05 22.86	5 6 7	25.197.0553.0 25.197.0653.0 25.197.0753.0	25.196.0553.0 25.196.0653.0 25.196.0753.0		
	50 50 50	30.48 34.29 38.10	26.67 30.48 34.29	8 9 10	25.197.0853.0 25.197.0953.0 25.197.1053.0	25.196.0853.0 25.196.0953.0 25.196.1053.0		
	50 50 50	41.91 45.72 49.53	38.10 41.91 45.72	11 12 13	25.197.1153.0 25.197.1253.0 25.197.1353.0	25.196.1153.0 25.196.1253.0 25.196.1353.0		
	50 50 50	53.34 57.15 60.96	49.53 53.34 57.15	14 15 16	25.197.1453.0 25.197.1553.0 25.197.1653.0	25.196.1453.0 25.196.1553.0 25.196.1653.0		

17 to 24pole upon request

$\mbox{\it with}$ insulating plate $\mbox{\it with}$ fixing bolts



Bore hole plan for version with fixing bolts



Part no.	Part no.
unmarked with insulating plate without fixing bolts	marked with insulating plate without fixing bolts
upon request	upon request
unmarked	marked
with insulating plate without fixing bolts	with insulating plate without fixing bolts
upon request	upon request

PC board connectors, rising cage clamp system

Spacing: 5.00/5.08 mm

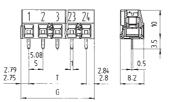
wiecon PCE

Rated cross section: 1.5 mm²

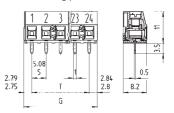
Rated current: 10 A

Connection range: 0.14 - 2.5 mm² solid/ 0.14 - 1.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I without insulating plate



with insulating plate



* max. 600 V for ungrounded networks or expected

Type 8192/8292 wire horizontal to PC board

300 V 15/16 A 300 V 15 A

Ø M 3

Bore hole Ø 12 mm

Material:

Solder pin 0.5 x 1 mm

Insulating housing: PA 66/6 gray, UL 94-V0 Clamping body: nickel-plated brass Contact clip with solder pin:

Contact clip with solder pin:

tin-plated bronze

Clamping screw: zinc-plated steel

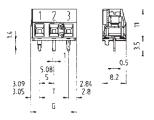
Brass Nickel-plated available upon request

Rated voltages VDE 0110 UL ratings CSA ratings Approvals

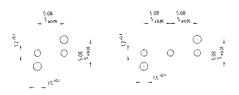
overvoltage ≤ 4 kV

• •				9 —			
Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00 mm				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
100 100 50	10.55 15.55 20.55	5 10 15	2 3 4	25.191.0253.0 25.191.0353.0 25.191.0453.0	25.190.0253.0 25.190.0353.0 25.190.0453.0	25.191.9253.0 25.191.9353.0	25.190.9253.0 25.190.9353.0
50 50 50	25.55 30.55 35.55	20 25 30	5 6 7	25.191.0553.0 25.191.0653.0 25.191.0753.0	25.190.0553.0 25.190.0653.0 25.190.0753.0		
50 50 50	40.55 45.55 50.55	35 40 45	8 9 10	25.191.0853.0 25.191.0953.0 25.191.1053.0	25.190.0853.0 25.190.0953.0 25.190.1053.0		
50 50 50	55.55 60.55 65.55	50 55 60	11 12 13	25.191.1153.0 25.191.1253.0 25.191.1353.0	25.190.1153.0 25.190.1253.0 25.190.1353.0		
50 50 50	70.55 75.55 80.55	65 70 75	14 15 16	25.191.1453.0 25.191.1553.0 25.191.1653.0	25.190.1453.0 25.190.1553.0 25.190.1653.0		
1.	7 to 24pole	e upon req	luest				
Spacing: 5.08 mm				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
100 100 50	10.71 15.79 20.87	5.08 10.16 15.24	2 3 4	25.193.0253.0 25.193.0353.0 25.193.0453.0	25.192.0253.0 25.192.0353.0 25.192.0453.0	25.193.9253.0 25.193.9353.0	25.192.9253.0 25.192.9353.0
50 50 50	25.95 31.03 36.11	20.32 25.40 30.48	5 6 7	25.193.0553.0 25.193.0653.0 25.193.0753.0	25.192.0553.0 25.192.0653.0 25.192.0753.0		
50 50 50	41.19 46.27 51.35	35.56 40.64 45.72	8 9 10	25.193.0853.0 25.193.0953.0 25.193.1053.0	25.192.0853.0 25.192.0953.0 25.192.1053.0		
50 50 50	56.43 61.51 66.59	50.80 55.88 60.96	11 12 13	25.193.1153.0 25.193.1253.0 25.193.1353.0	25.192.1153.0 25.192.1253.0 25.192.1353.0		
50 50 50	71.67 76.75 81.83	66.04 71.12 76.20	14 15 16	25.193.1453.0 25.193.1553.0 25.193.1653.0	25.192.1453.0 25.192.1553.0 25.192.1653.0		
17	7 to 24pole	e upon req	uest				

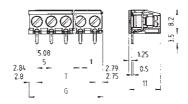
with insulating plate with fixing bolts



Bore hole plan for version with fixing bolts



with insulating plate horizontal





Solder pin 0.5 x 1 mm Bore hole Ø 1.2 mm





Type 8192 ZW/8292 ZW

Wire vertical to PC board

No. 30 – 14 AWG No. 30 – 14 AWG 300 V 15/16 A 300 V 15 A

NO. 30 = 14

		7 (3 (3 (
Part no.	Part no.		
unmarked with insulating plate without fixing bolts	marked with insulating plate without fixing bolts	unmarked with insulating plate horizontal	marked with insulating plate horizontal
upon request	upon request	25.191.6253.0 25.191.6353.0 25.191.6453.0	upon request
		25.191.6553.0 25.191.6653.0 25.191.6753.0	
		25.191.6853.0 25.191.6953.0 25.191.7053.0	
		25.191.7153.0 25.191.7253.0 25.191.7353.0	
		25.191.7453.0 25.191.7553.0 25.191.7653.0	
unmarked	marked	unmarked	marked
with insulating plate without fixing bolts	with insulating plate without fixing bolts	with insulating plate horizontal	with insulating plate horizontal
upon request	upon request	25.193.6253.0 25.193.6353.0 25.193.6453.0	upon request
		25.193.6553.0 25.193.6653.0 25.193.6753.0	
		25.193.6853.0 25.193.6953.0 25.193.7053.0	
		25.193.7153.0 25.193.7253.0 25.193.7353.0	
		25.193.7453.0 25.193.7553.0 25.193.7653.0	



Rated cross section:

1.5 mm²

Rated current 15 A for type 8292 DH 15 A for type 8292 EH Rated current Rated current 15 A for type 8292 H

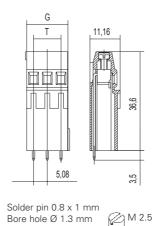
(related to an ambient temperature of 20 °C, the rated cross section and max. number of poles)

Connection range:

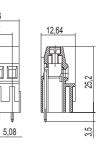
0.5 - 1.5 mm² solid/fine stranded

250 V/4 kV/3 - Overvoltage category III 250 V/4 kV/2 – Overvoltage category II 500 V/4 kV/1 – Overvoltage category I









Solder pin 0.8 x 1 mm Bore hole Ø 1.3 mm

Type 8292 DH

Type 8292 EH

Rated voltages VDE 0110

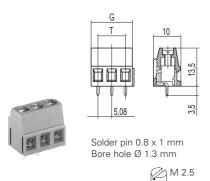
No. 24 - 14 AWG 300 V No. 24 - 14 AWG 300 V 10 A UL ratings field wiring

CSA ratings Approvals			ioia vvii	9	No. 24 – 14 AWG	300 V	10 A	No. 24 – 14 AWG	300 V	10 A
	Std. pack	G	Т	Poles	Part no.	Part no.		Part no.	Part no.	
Spacing: 5.0)8 mm				unmarked			unmarked		
	100 100	10.16 15.24	5.08 10.16	2 3	27.000.4253.0 27.000.4353.0			27.000.2253.0 27.000.2353.0		
					Customers are advised to	ensure support for the	8292 DH	Customers are advised to en	sure support for the	8292 EH

Wiecon

10 A

10 A



Type 8292 H

No. 24 – 14 AWG 300 V No. 24 – 14 AWG 300 V

91/8

140	
Part no.	Part no.
unmarked	
27.000.0253.0 27.000.0353.0	

PC board connectors, rising cage clamp system

Spacing: 5.00/5.08 mm

Wiecon PCB

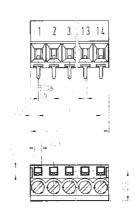
Rated cross section: 2.5 mm²

Rated current: 16 A

Connection range: $0.14 - 4.0 \text{ mm}^2 \text{ solid/}$ 0.14 - 2.5 mm² fine stranded

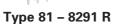
250 V/4 kV/3 - Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

max. 600 V for ungrounded networks or expected



Material: Insulating housing: PA 66/6 gray, UL 94-V0 Clamping body: nickel-plated brass Contact clip with solder pin: tin-plated E copper Clamping screw: zinc-plated steel





(with integrated test point)

No. 22 - 12 AWG No. 22 - 12 AWG 300 V 20/30 A 300 V 25 A Solder pin 1 x 0.8 mm Bore hole Ø 1.3 mm

Upon request also with Philips screw

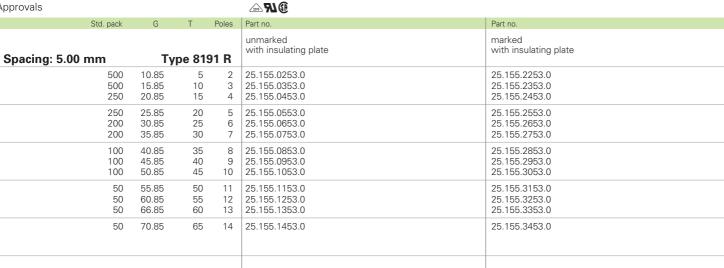


wire horizontal to PC board

UL ratings CSA ratings Approvals

Rated voltages VDE 0110

overvoltage ≤ 4 kV



Spacing: 5.08 mm	Ty	ype 829	1 R	unmarked with insulating plate	marked with insulating plate
500	11.01	5.08	2	25.156.0253.0	25.156.2253.0
500	16.09	10.16	3	25.156.0353.0	25.156.2353.0
250	21.17	15.24	4	25.156.0453.0	25.156.2453.0
250	26.25	20.32	5	25.156.0553.0	25.156.2553.0
200	31.33	25.40	6	25.156.0653.0	25.156.2653.0
200	36.41	30.48	7	25.156.0753.0	25.156.2753.0
100	41.49	35.56	8	25.156.0853.0	25.156.2853.0
100	46.57	40.64	9	25.156.0953.0	25.156.2953.0
100	51.56	45.72	10	25.156.1053.0	25.156.3053.0
50	56.73	50.80	11	25.156.1153.0	25.156.3153.0
50	61.81	55.88	12	25.156.1253.0	25.156.3253.0
50	66.89	60.96	13	25.156.1353.0	25.156.3353.0
50	71.97	66.04	14	25.156.1453.0	25.156.3453.0

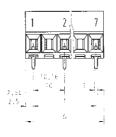
PC board connectors, rising cage clamp system Spacing: 10.00/10.16 mm

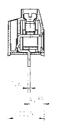
Rated cross section: 2.5 mm²

Rated current: 16 A

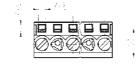
Connection range: 0.14 – 4.0 mm² solid/ 0.14 – 2.5 mm² fine stranded

690 V/8 kV/3 – Overvoltage category III 1000 V/8 kV/2 – Overvoltage category II 1000 V/8 kV/1 – Overvoltage category I





Material: Insulating housing: PA 66/6 gray, UL 94-V0 Clamping body: nickel-plated brass Contact clip with solder pin: tin-plated E copper Clamping screw: zinc-plated steel







Solder pin 1 x 0.8 mm Bore hole Ø 1.3 mm

Upon request also with Philips screw

Type 81 - 8291 R

wire horizontal to PC board (with integrated test point, every second pole fitted)

No. 22 – 12 AWG No. 22 – 12 AWG 600 V 20/30 A 600 V 25 A

UL ratings CSA ratings Approvals

Rated voltages VDE 0110

Part no. Std. pack unmarked marked with insulating plate with insulating plate Type 8191 R Spacing: 10.00 mm 15 10 25.157.0253.0 25.157.1253.0 25.157.1353.0 25.157.1453.0 25.157.0353.0 25 3 4 250 20 200 35 30 25.157.0453.0 100 45 40 25.157.0553.0 25.157.1553.0 50 55 50 6 7 25.157.0653.0 25.157.1653.0 50 25.157.0753.0 25.157.1753.0 unmarked marked with insulating plate with insulating plate Spacing: 10.16 mm Type 8291 R 15.24 10.16 500 25.157.4253.0 25.157.5253.0 25.157.4353.0 25.157.5353.0 250 25.40 20.32 35.56 30.48 25.157.4453.0 25.157.5453.0 200 25.157.5553.0 25.157.5653.0 25.157.5753.0 25.157.4553.0 25.157.4653.0 25.157.4753.0 100 45.72 40.64 50.80 6 7 50 55.88 60.96 50 66.04

PC board connectors, rising cage clamp system Spacing: 5.00/5.08/10.00 mm

wiecon

Rated cross section: 2.5 mm²

Rated current: 16 A

Connection range: $0.14 - 4.0 \text{ mm}^2 \text{ solid/}$ 0.14 - 2.5 mm² fine stranded

Rated voltages:

Spacing: 5.00/5.08 mm VDE 0110 250 V/4 kV/3 - Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

Rated voltages:

Spacing: 10.00 mm VDE 0110

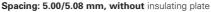
690 V/8 kV/3 - Overvoltage category III 1000 V/8 kV/2 – Overvoltage category II 1000 V/8 kV/1 - Overvoltage category I

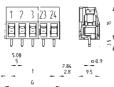
max. 600 V for ungrounded networks or expected overvoltage $\leq 4 \text{ kV}$

Rated voltages VDE 0110

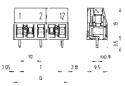
UL ratings CSA ratings Approvals

field/factory wiring





Spacing: 10.00 mm, without insulating plate







300 V

300 V

Solder pin 0.9 x 0.9 mm Bore hole Ø 13 mm

with insulating plate, without fixing bolts

with insulating plate, without fixing bolts

3 23 74

20/30 A

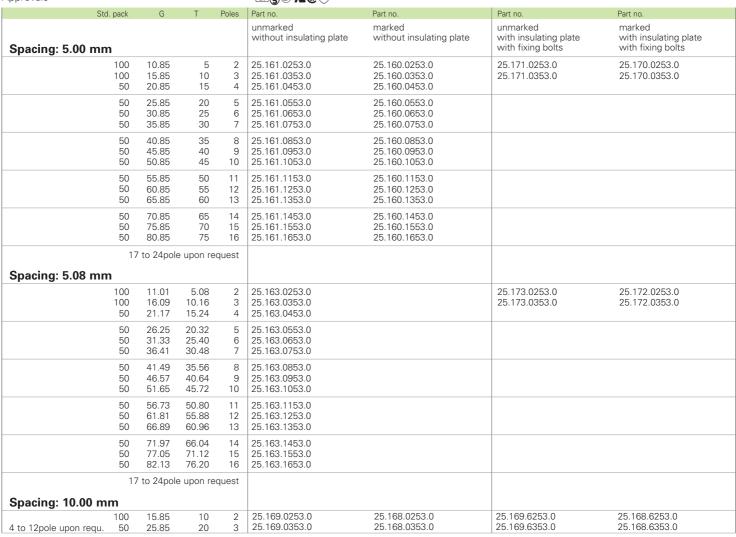
25 A

Type 8191/8291

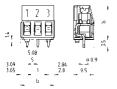
wire horizontal to PC board (with exposed test point)

No. 22 - 12 AWG No. 22 - 12 AWG

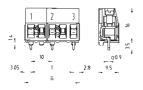




with insulating plate with fixing bolts

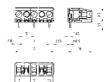


with insulating plate with fixing bolts

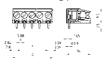


Material:
Insulating housing:
PA 66/6 gray, UL 94-V0
Clamping body: nickel-plated brass
Contact clip with solder pin:
tin-plated E copper
Clamping screw: zinc-plated steel
Brass Nickel-plated
available upon request

with insulating plate horizontal 5.00/5.08 mm



with insulating plate horizontal 10.00 mm



Solder pin 0.9 x 0.9 mm Bore hole Ø 1.3 mm





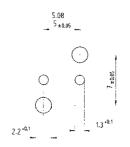
Type 8191 ZW/8291 ZW

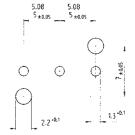
wire vertical to PC board

No. 22 – 12 AWG No. 22 – 12 AWG 300 V 20/30 A 300 V 25 A

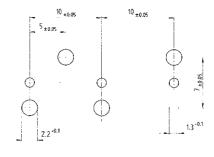
		<i>△∞</i> (\$) ®Я (® (\$)	
Part no.	Part no.	Part no.	Part no.
unmarked with insulating plate without fixing bolts	marked with insulating plate without fixing bolts	unmarked with insulating plate horizontal	marked with insulating plate horizontal
upon request	upon request	25.161.6253.0 25.161.6353.0 25.161.6453.0	25.160.6253.0 25.160.6353.0 25.160.6453.0
		25.161.6553.0 25.161.6653.0 25.161.6753.0	25.160.6553.0 25.160.6653.0 25.160.6753.0
		25.161.6853.0 25.161.6953.0 25.161.7053.0	25.160.6853.0 25.160.6953.0 25.160.7053.0
		25.161.7153.0 25.161.7253.0 25.161.7353.0	25.160.7153.0 25.160.7253.0 25.160.7353.0
		25.161.7453.0 25.161.7553.0 25.161.7653.0	25.160.7453.0 25.160.7553.0 25.160.7653.0
upon request	upon request	25.163.6253.0	25.162.6253.0
upon request	upon request	25.163.6353.0 25.163.6453.0	25.162.6353.0 25.162.6453.0
		25.163.6553.0 25.163.6653.0 25.163.6753.0	25.162.6553.0 25.162.6653.0 25.162.6753.0
		25.163.6853.0 25.163.6953.0 25.163.7053.0	25.162.6853.0 25.162.6953.0 25.162.7053.0
		25.163.7153.0 25.163.7253.0 25.163.7353.0	25.162.7153.0 25.162.7253.0 25.162.7353.0
		25.163.7453.0 25.163.7553.0 25.163.7653.0	25.162.7453.0 25.162.7553.0 25.162.7653.0
25.169.2253.0 25.169.2353.0	25.168.2253.0 25.168.2353.0	25.169.4253.0 25.169.4353.0	25.168.4253.0 25.168.4353.0

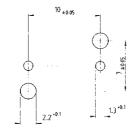
Bore hole plan for version with fixing bolts, spacing: 5.00/5.08 mm





Bore hole plan for version **with** fixing bolts, spacing: 10.00 mm





PC board connectors, rising cage clamp system

Spacing: 7.50/7.62 mm

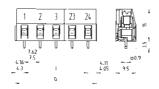
wiecon PCB

Rated cross section: 2.5 mm²

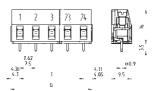
Rated current: 16 A

Connection range: 0.14 – 4.0 mm² solid/ 0.14 – 2.5 mm² fine stranded

400 V/6 kV/3 – Overvoltage category III 1000 V/6 kV/2 – Overvoltage category II 1000 V/6 kV/1 – Overvoltage category I without insulating plate



with insulating plate, without fixing bolts





Type 8391/8491

Rated voltages VDE 0110 UL ratings CSA ratings wire horizontal to PC board

No. 22 – 12 AWG No. 22 – 12 AWG ♠���������� Solder pin 0.9 x 0.9 mm Bore hole Ø 13 mm

М3

300 V 20/30 A

25 A

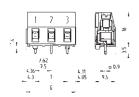
300 V

Material
Insulating housing:
PA 66/6 gray, UL 94-V0
Clamping body: nickel-plated brass
Contact clip with solder pin:
tin-plated E copper
Clamping screw: zinc-plated steel

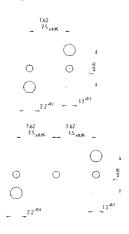
Brass Nickel-plated available upon request

Approvals Part no. Part no. unmarked unmarked unmarked marked with insulating plate without fixing bolts with insulating plate with fixing bolts without insulating plate without insulating Spacing: 7.50 mm plate 25.164.0253.0 25.165.3253.0 25.175.0253.0 100 15.85 7.5 25.165.0253.0 25.164.0353.0 25.165.3353.0 100 23.35 15.0 3 25.165.0353.0 25.175.0353.0 4 to 24pole upon request unmarked unmarked unmarked marked without insulating plate with insulating plate with insulating plate without insulating Spacing: 7.62 mm without fixing bolts with fixing bolts 100 16.09 7.62 25.167.0253.0 25.167.3253.0 25.177.0253.0 25.166.0253.0 25.167.0353.0 25.167.3353.0 25.177.0353.0 25.166.0353.0 4 to 24pole upon request

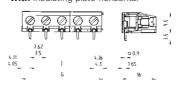
$\mbox{\bf with}$ insulating plate $\mbox{\bf with}$ fixing bolts



Bore hole plan for version with fixing bolts



with insulating plate horizontal





Solder pin 0.9 x 0.9 mm Bore hole Ø 1.3 mm





Type 8391 ZW/8491 ZW

wire vertical to PC board

300 V 20/30 A 300 V 25 A

Part no.	Part no.	Part no.	Part no.
marked with insulating plate without fixing bolts	marked with insulating plate with fixing bolts	unmarked with insulating plate horizontal	marked with insulating plate horizontal
25.164.3253.0 25.164.3353.0	25.174.0253.0 25.174.0353.0	25.165.6253.0 25.165.6353.0	25.164.6253.0 25.164.6353.0
marked with insulating plate without fixing bolts	marked with insulating plate with fixing bolts	unmarked with insulating plate horizontal	marked with insulating plate horizontal
25.166.3253.0 25.166.3353.0	25.176.0253.0 25.176.0353.0	25.167.6253.0 25.167.6353.0	25.166.6253.0 25.166.6353.0



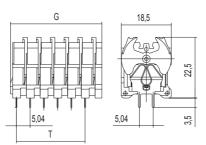
Rated cross section: 1.5 mm²

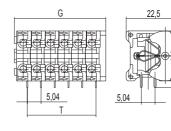
Rated current: 16 A

(related to an ambient temperature of 20 °C, the rated cross section and max. number of poles)

Connection range: 0.50 - 2.5 mm² solid/ 0.50 - 1.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III







Solder pin 0.8 x 0.4 mm Bore hole Ø 1.3 mm



Solder pin 0.8 x 0.4 mm Bore hole Ø 1.3 mm



Type 8152 TOP V

Type 8152 TOP H

Rated voltages VDE 0110 UL ratings

CSA ratings

field wiring

No. 26 – 14 AWG No. 22 – 14 AWG

B1.6

300 V 10 A 300 V 10 A No. 26 – 14 AWG No. 22 – 14 AWG 300 V 10 A 300 V 10 A

9.19

Approvals				71 🛈	91/9
Std. pack	G	T F	Poles	Part no.	Part no.
Spacing: 5.00 mm					
100 100 100	8.34 13.38 18.42	5.04 10.08 15.12	1 2 3	27.720.0153.0 27.720.0253.0 27.720.0353.0	27.730.0153.0 27.730.0253.0 27.730.0353.0
50 50 50	23.46 28.50 33.54	20.16 25.20 30.24	4 5 6	27.720.0453.0 27.720.0553.0 27.720.0653.0	27.730.0453.0 27.730.0553.0 27.730.0653.0
50 50 50	38.58 43.62 48.66	35.28 40.32 45.30	7 8 9	27.720.0753.0 27.720.0853.0 27.720.0953.0	27.730.0753.0 27.730.0853.0 27.730.0953.0
50	53.70	50.40	10	27.720.1053.0	27.730.1053.0

PC board connectors, TOP connection

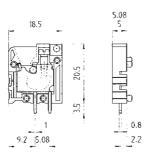
Spacing: 5.00/5.08 mm

Rated cross section: 2.5 mm²

Rated current: 16 A

Connection range: $0.14 - 4.0 \text{ mm}^{2} \text{ solid}$ 0.14 - 2.5 mm² fine stranded

250 V/4 kV/3 - Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I



Material Insulating housing: PA 66/6 gray, UL 94-V0 Clamping body: zinc-plated steel Contact clip with solder pin: tin-plated E copper Clamping piece: zinc-plated steel Clamping screw: zinc-plated steel

max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV





Solder pin 0.8 x 1.0 mm Bore hole Ø 1.3 mm

Rated voltages VDE 0110

UL ratings CSA ratings

Tear-off marking strip

Adhesive marking tag strip

1) Marking upon request

Single tag

field/factory wiring

Type 8185 TOP V wire vertical to PC board No. 22/30 - 12 AWG

No. 22 - 12 AWG

9704 A/1-0 B

9705 A

9705 AB

marked 1, 2, 3 ... 0

unmarked 1) marked

1 - 12 (100 x)

13 - 24 (100 x)

300 V 20/25 A 300 V 20 A No. 22/30 - 12 AWG No. 22 - 12 AWG

Type 8285 TOP V

300 V 20/25 A 300 V 20 A

CSA ratings		Z AVVG	300 V	20 A	NO. 22	- IZ AVVG	300 V	20 A
Approvals	₽10 (#)				(1)			
	Туре	Part no.	Std. pack		Type	Part no.	Std. pack	
Connector assemblies	Spacing: 5.0	0 mm			Spacing:	5.08 mm		
2-pc 3-pc 4-pc	le 8185 TOP V	25.741.0253.0 25.741.0353.0 25.741.0453.0	100 100 50		8285 TOP V 8285 TOP V 8285 TOP V	25.751.0353.0	100 100 50	
5-pc 6-pc 7-pc	le 8185 TOP V	25.741.0553.0 25.741.0653.0 25.741.0753.0	50 50 50		8285 TOP V 8285 TOP V 8285 TOP V	25.751.0653.0	50 50 50	
8-pc 9-pc 10-pc	le 8185 TOP V	25.741.0853.0 25.741.0953.0 25.741.1053.0	50 50 50		8285 TOP V 8285 TOP V 8285 TOP V	25.751.0953.0	50 50 50	
11-pc 12-pc 13-pc	le 8185 TOP V	25.741.1153.0 25.741.1253.0 25.741.1353.0	50 50 50		8285 TOP V 8285 TOP V 8285 TOP V	25.751.1253.0	50 50 50	
14-pc 15-pc 16-pc	le 8185 TOP V	25.741.1453.0 25.741.1553.0 25.741.1653.0	50 50 50		8285 TOP V 8285 TOP V 8285 TOP V	25.751.1553.0	50 50 50	
Single poles, snap together								
Spacings: 5.00 and 5.08 mm	le 8185 TOP V	25.741.0053.0	100		8285 TOP V	25.751.0053.0	100	
End plate	AP 8385 TOP N	07.300.4753.0	50		AP 8385 TC	P N 07.300.4753.0	50	
Marking tag carrier, snap-on 1pc	le	04.242.4253.0	100			04.242.4253.0	100	
Marking tag carrier, snap-on, for group marking, 5.00 mm wide	BZ 8185 TOP N	04.242.5853.0	50					
Marking tag strips unmarke		04.242.5053.0	25					
¹⁾ marke		04.842.5053.0	25					

04.841.2150.0

04.242.0800.0

04.842.0850.0

04.007.4089.0

04.007.4189.0

25

500

PC board connector, TOP system

Spacing: 5.00/5.08 mm

wiecon

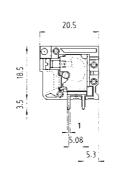
Rated cross section:

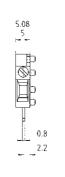
2.5 mm²

Rated current: 16 A

Connection range: $0.14 - 4.0 \text{ mm}^2 \text{ solid/}$ 0.14 - 2.5 mm² fine stranded

250 V/4 kV/3 - Overvoltage category III *690 V/4 kV/2 - Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I





Material Insulating housing: PA 66/6 gray, UL 94-V0 Clamping body: zinc-plated steel Contact clip with solder pin: tin-plated E copper Clamping piece: zinc-plated steel Clamping screw: zinc-plated steel

max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV





Solder pin 0.8 x 1.0 mm Bore hole Ø 13 mm

Rated voltages VDE 0110

UL ratings CSA ratings Approvals

field/factory wiring

13 - 24 (100 x)

Type 8185 TOP H wire horizontal to PC board No. 22/30 - 12 AWG

No. 22 - 12 AWG 300 V 20/25 A 300 V 20 A Type 8285 TOP H

No. 22/30 - 12 AWG No. 22 - 12 AWG 300 V 20/25 A 300 V 20 A

Std. pack

100 100

50

50

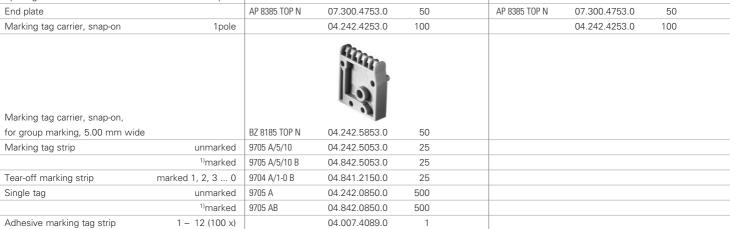
FLO

FLG

7 Approvato					71 © \bigcirc	
		Туре	Part no.	Std. pack	Type	Part no.
Connector assemblies		Spacing: 5	5.00 mm		Spacing: 5	5.08 mm
	2-pole 3-pole 4-pole	8185 TOP H 8185 TOP H 8185 TOP H	25.741.3253.0 25.741.3353.0 25.741.3453.0	100 100 50	8285 TOP H 8285 TOP H 8285 TOP H	25.751.3253.0 25.751.3353.0 25.751.3453.0
	5-pole 6-pole 7-pole	8185 TOP H 8185 TOP H 8185 TOP H	25.741.3553.0 25.741.3653.0 25.741.3753.0	50 50 50	8285 TOP H 8285 TOP H 8285 TOP H	25.751.3553.0 25.751.3653.0 25.751.3753.0
	01-	010F TOD II	05 744 0050 0	Ε0	DOOF TOD II	05 751 0050 0

7-pole	8185 TOP H	25.741.3753.0	50	8285 TOP H	25.751.3753.0	50
8-pole	8185 TOP H	25.741.3853.0	50	8285 TOP H	25.751.3853.0	50
9-pole	8185 TOP H	25.741.3953.0	50	8285 TOP H	25.751.3953.0	50
10-pole	8185 TOP H	25.741.4053.0	50	8285 TOP H	25.751.4053.0	50
11-pole	8185 TOP H	25.741.4153.0	50	8285 TOP H	25.751.4153.0	50
12-pole	8185 TOP H	25.741.4253.0	50	8285 TOP H	25.751.4253.0	50
13-pole	8185 TOP H	25.741.4353.0	50	8285 TOP H	25.751.4353.0	50
14-pole	8185 TOP H	25.741.4453.0	50	8285 TOP H	25.751.4453.0	50
15-pole	8185 TOP H	25.741.4553.0	50	8285 TOP H	25.751.4553.0	50
16-pole	8185 TOP H	25.741.4653.0	50	8285 TOP H	25.751.4653.0	50

Single poles, snap together 8185 TOP H 8285 TOP H Spacings: 5.00 and 5.08 mm 1pole 25.741.0153.0 100 25.751.0153.0 100 AP 8385 TOP N 07.300.4753.0 50 AP 8385 TOP N 07.300.4753.0 50



04.007.4189.0

1) Marking upon request

PC board connector, TOP connection

field/factory wiring

Spacing: 7.50/7.62 mm

Rated cross section: 2.5 mm²

Rated current: 16 A

Connection range: 0.14 - 4.0 mm² solid/ 0.14 - 2.5 mm² fine stranded

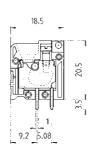
Rated voltages VDE 0110

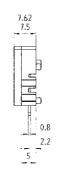
1) Marking upon request

UL ratings

CSA ratings

400 V/6 kV/3 – Overvoltage category III 1000 V/6 kV/2 – Overvoltage category II 1000 V/6 kV/1 – Overvoltage category I





Material Insulating housing: PA 66/6 gray, UL 94-V0 Clamping body: zinc-plated steel Contact clip with solder pin: tin-plated E copper Clamping piece: zinc-plated steel Clamping screw: zinc-plated steel





Solder pin 0.8 x 1.0 mm Bore hole Ø 1.3 mm

Type 8385 TOP V wire vertical to PC board

No. 22/30 - 12 AWG

No. 22 - 12 AWG

300 V 20/25 A 300 V 20 A Type 8485 TOP V

No. 22/30 - 12 AWG No. 22 - 12 AWG **₹10**

300 V 20/25 A 300 V 20 A

oo, trainigo								
Approvals		₽10 (#			₽1 @⊕			
		Туре	Part no.	Std. pack	Type	Part no.	Std. pack	
Connector assemblies		Spacing: 7	′.50 mm		Spacing:	7.62 mm		
	2-pole	8385 TOP V	25.761.0253.0	100	8485 TOP V	25.771.0253.0	100	
	3-pole	8385 TOP V	25.761.0353.0	100	8485 TOP V	25.771.0353.0	100	
	4-pole	8385 TOP V	25.761.0453.0	50	8485 TOP V	25.771.0453.0	50	
	5-pole	8385 TOP V	25.761.0553.0	50	8485 TOP V	25.771.0553.0	50	
	6-pole	8385 TOP V	25.761.0653.0	50	8485 TOP V	25.771.0653.0	50	
	7-pole	8385 TOP V	25.761.0753.0	50	8485 TOP V	25.771.0753.0	50	
	8-pole	8385 TOP V	25.761.0853.0	50	8485 TOP V	25.771.0853.0	50	
Pre-assembled pole configurations upon	request							

Single poles, snap together						
Spacings: 7.50 and 7.62 mm	8385 TOP V	25.761.0053.0	100	8485 TOP V	25.771.0053.0	100
End plate	AP 8385 TOP N	07.300.4753.0	50	AP 8385 TOP N	07.300.4753.0	50
Marking tag carrier, snap-on		04.242.4253.0	100		04.242.4253.0	100
Marking tag carrier, snap-on,						
for group marking, 5.00 mm wide	BZ 8185 TOP N	04.242.5853.0	50			
Marking tag strips	9705 A/7,5/10	04.242.7553.0	25			
	9705 A/7,5/10 B	04.842.7553.0	25			
Tear-off marking strips	9704 A/1-0 B	04.841.2150.0	25			
Single tags	9705 A	04.242.0850.0	500			
	9705 AB	04.842.0850.0	500			

PC board connector, TOP connection

field/factory wiring

Spacing: 7.50/7.62 mm

wiecon

Rated cross section: 2.5 mm²

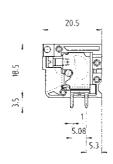
Rated current: 16 A

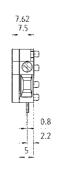
Connection range: $0.14 - 4.0 \text{ mm}^2 \text{ solid/}$ 0.14 - 2.5 mm² fine stranded

Rated voltages VDE 0110

UL ratings

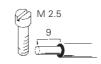
400 V/6 kV/3 - Overvoltage category III 1000 V/6 kV/2 – Overvoltage category II 1000 V/6 kV/1 – Overvoltage category I





Material Insulating housing: PA 66/6 gray, UL 94-V0 Clamping body: zinc-plated steel Contact clip with solder pin: tin-plated E copper Clamping piece: zinc-plated steel Clamping screw: zinc-plated steel





Solder pin 0.8 x 1.0 mm Bore hole Ø 13 mm

Type 8385 TOP H

300 V 20/25 A

Type 8485 TOP H

wire horizontal to PC board No. 22/30 - 12 AWG

No. 22/30 - 12 AWG

300 V 20/25 A

CSA ratings		No. 22	– 12 AWG	300 V	20 A		- 12 AWG	300 V	20 A
Approvals		₽1 @⊕				₽1 @⊕			
		Туре	Part no.	Std. pack		Туре	Part no.	Std. pack	
Connector assemblies		Spacing	ı: 7.50 mm			Spacing	ı: 7.62 mm		
	pole	8385 TOP H	25.761.3253.0	100		8485 TOP H	25.771.3253.0	100	
	pole	8385 TOP H	25.761.3353.0	100		8485 TOP H	25.771.3353.0	100	
4	pole	8385 TOP H	25.761.3453.0	50		8485 TOP H	25.771.3453.0	50	
	pole	8385 TOP H	25.761.3553.0	50		8485 TOP H	25.771.3553.0	50	
	pole	8385 TOP H	25.761.3653.0	50		8485 TOP H	25.771.3653.0	50	
/	pole	8385 TOP H	25.761.3753.0	50		8485 TOP H	25.771.3753.0	50	
8	pole	8385 TOP H	25.761.3853.0	50		8485 TOP H	25.771.3853.0	50	
Pre-assembled pole configurations upon req	uest								
Cingle gales area to get have									
Single poles, snap together									
Spacings: 7.50 und 7.62 mm 1	pole	8385 TOP H	25.761.0153.0	100		8485 TOP H	25.771.0153.0	100	

AP 8385 TOP N AP 8385 TOP N End plate 07.300.4753.0 50 07.300.4753.0 50 Marking tag carrier, snap-on 1pole 04.242.4253.0 100 04.242.4253.0 100 Marking tag carrier, snap-on, B7 8185 TOP N 50 for group marking, 5.00 mm wide 04.242.5853.0 04.242.7553.0 Marking tag strips unmarked 9705 A/7,5/10 25 1)marked 9705 A/7,5/10 B 04.842.7553.0 25 Tear-off marking strip marked 1, 2, 3 ... 0 9704 A/1-0 B 04.841.2150.0 25 9705 A 04.242.0850.0 500 Single tags unmarked 9705 AB 04.842.0850.0 500 1)marked

1) Marking upon request

PC board connector, spring clamp connection Spacing: 5.00/5.08 mm

Rated cross section: 2.5 mm²

Rated current: 16 A

Connection range: 0.14 - 4.0 mm² solid/ 0.14 - 2.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

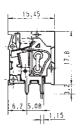
Material:

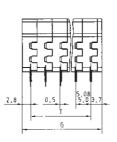
Insulating housing: PA 66/6 gray, UL 94-V-0 Clamping body: spring clamp Contact clips with solder pin:

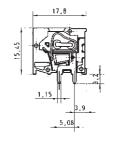
tin-plated É copper

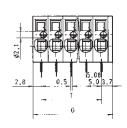
* max. 600 V for ungrounded networks or expected overvoltage \leq 4 kV

Rated voltages VDE 0110
UL ratings field/factory wiring
CSA ratings – pending
Approvals (UL + CSA pending)











Solder pin $0.5 \times 1.15 \text{ mm}$ Bore hole \emptyset 1.3 mm

8258 TOP V





Solder pin $0.5 \times 1.15 \text{ mm}$ Bore hole \emptyset 1.3 mm



Type 8158 TOP V wire vertical to PC board No. 22/30 – 12 AWG No. 22 – 12 AWG

Type 8158 TOP H
wire horizontal to PC board

No. 22/30 - 12 AWG No. 22 - 12 AWG 8258 TOP H

		Type	Part no.	Std. pack	Туре	Part no.	Std. pack
Spacing: 5.00 mm							
	2pole	8158 TOP V	25.780.0253.0	100	8158 TOP H	25.790.0253.0	100
	3pole	8158 TOP V	25.780.0353.0	100	8158 TOP H	25.790.0353.0	100
	4pole	8158 TOP V	25.780.0453.0	50	8158 TOP H	25.790.0453.0	50
	5pole	8158 TOP V	25.780.0553.0	50	8158 TOP H	25.790.0553.0	50
	6pole	8158 TOP V	25.780.0653.0	50	8158 TOP H	25.790.0653.0	50
	7pole	8158 TOP V	25.780.0753.0	50	8158 TOP H	25.790.0753.0	50
	8pole	8158 TOP V	25.780.0853.0	50	8158 TOP H	25.790.0853.0	50
	9pole	8158 TOP V	25.780.0953.0	50	8158 TOP H	25.790.0953.0	50
	10pole	8158 TOP V	25.780.1053.0	50	8158 TOP H	25.790.1053.0	50
	11pole	8158 TOP V	25.780.1153.0	50	8158 TOP H	25.790.1153.0	50
	12pole	8158 TOP V	25.780.1253.0	50	8158 TOP H	25.790.1253.0	50
	13pole	8158 TOP V	25.780.1353.0	50	8158 TOP H	25.790.1353.0	50
further pole numbers upon request	14pole	8158 TOP V	25.780.1453.0	50	8158 TOP H	25.790.1453.0	50
	15pole	8158 TOP V	25.780.1553.0	50	8158 TOP H	25.790.1553.0	50
	16pole	8158 TOP V	25.780.1653.0	50	8158 TOP H	25.790.1653.0	50
Spacing: 5.08 mm							
	2pole	8258 TOP V	25.781.0253.0	100	8258 TOP H	25.791.0253.0	100
	3pole	8258 TOP V	25.781.0353.0	100	8258 TOP H	25.791.0353.0	100
	4pole	8258 TOP V	25.781.0453.0	50	8258 TOP H	25.791.0453.0	50
	5pole	8258 TOP V	25.781.0553.0	50	8258 TOP H	25.791.0553.0	50
	6pole	8258 TOP V	25.781.0653.0	50	8258 TOP H	25.791.0653.0	50
	7pole	8258 TOP V	25.781.0753.0	50	8258 TOP H	25.791.0753.0	50
	8pole	8258 TOP V	25.781.0853.0	50	8258 TOP H	25.791.0853.0	50
	9pole	8258 TOP V	25.781.0953.0	50	8258 TOP H	25.791.0953.0	50
	10pole	8258 TOP V	25.781.1053.0	50	8258 TOP H	25.791.1053.0	50
	11pole	8258 TOP V	25.781.1153.0	50	8258 TOP H	25.791.1153.0	50
	12pole	8258 TOP V	25.781.1253.0	50	8258 TOP H	25.791.1253.0	50
	13pole	8258 TOP V	25.781.1353.0	50	8258 TOP H	25.791.1353.0	50
further pole numbers upon request	14pole	8258 TOP V	25.781.1453.0	50	8258 TOP H	25.791.1453.0	50
	15pole	8258 TOP V	25.781.1553.0	50	8258 TOP H	25.791.1553.0	50
	16pole	8258 TOP V	25.781.1653.0	50	8258 TOP H	25.791.1653.0	50
Accessories							
Adhesive marking strips	1 – 12 (100 x)		04.007.4089.0	1		04.007.4089.0	1
	13 – 24 (100 x)		04.007.4189.0	1		04.007.4189.0	1
Marking upon request							
Test plug			Z5.553.2921.0	10		Z5.553.2921.0	10

PC board connectors, spring clamp connection

Spacing: 7.50/7.62 mm

wiecon PCB

Rated cross section: 2.5 mm²

Rated current: 16 A

Connection range: 0.14 - 4.0 mm² solid/ 0.14 - 2.5 mm² fine stranded

400 V/6 kV/3 – Overvoltage category III 1000 V/6 kV/2 – Overvoltage category II 1000 V/6 kV/1 – Overvoltage category I

Material:

Insulating housings: PA 66/6 gray, UL 94-V-0 Clamping body: spring clamp

Clamping body: spring clamp Contact clip with solder pin: tin-plated E copper

Solder pin 0.5 x 1.15 mm Bore hole Ø 1.3 mm



9



Bore hole Ø 13 mm

Solder pin 0.5 x 1.15 mm

Rated voltages VDE 0110

UL ratings field/factory wiring

CSA ratings

Approvals (UL + CSA pending)

Type 8358 TOP V wire vertical to PC board

No. 22/30 – 12 AWG No. 22 – 12 AWG 8458 TOP V

Type 8358 TOP H wire horizontal to PC board

No. 22/30 - 12 AWG No. 22 - 12 AWG

17,8

8458 TOP H

		Type	Part no.	Std. pack	Туре	Part no.	Std. pack	
Spacing: 7.50 mm								
	2pole 3pole 4pole	8358 TOP V 8358 TOP V 8358 TOP V	25.782.0253.0 25.782.0353.0 25.782.0453.0	100 100 50	8358 TOP H 8358 TOP H 8358 TOP H	25.792.0253.0 25.792.0353.0 25.792.0453.0	100 100 50	
	5pole 6pole 7pole	8358 TOP V 8358 TOP V 8358 TOP V	25.782.0553.0 25.782.0653.0 25.782.0753.0	50 50 50	8358 TOP H 8358 TOP H 8358 TOP H	25.792.0553.0 25.792.0653.0 25.792.0753.0	50 50 50	
	8pole 9pole 10pole	8358 TOP V 8358 TOP V 8358 TOP V	25.782.0853.0 25.782.0953.0 25.782.1053.0	50 50 50	8358 TOP H 8358 TOP H 8358 TOP H	25.792.0853.0 25.792.0953.0 25.792.1053.0	50 50 50	
	11pole 12pole 13pole	8358 TOP V 8358 TOP V 8358 TOP V	25.782.1153.0 25.782.1253.0 25.782.1353.0	50 50 50	8358 TOP H 8358 TOP H 8358 TOP H	25.792.1153.0 25.792.1253.0 25.792.1353.0	50 50 50	
further number of poles upon request	14pole 15pole 16pole	8358 TOP V 8358 TOP V 8358 TOP V	25.782.1453.0 25.782.1553.0 25.782.1653.0	50 50 50	8358 TOP H 8358 TOP H 8358 TOP H	25.792.1453.0 25.792.1553.0 25.792.1653.0	50 50 50	
Spacing: 7.62 mm								
	2pole 3pole 4pole	8458 TOP V 8458 TOP V 8458 TOP V	25.783.0253.0 25.783.0353.0 25.783.0453.0	100 100 50	8458 TOP H 8458 TOP H 8458 TOP H	25.793.0253.0 25.793.0353.0 25.793.0453.0	100 100 50	
	5pole 6pole 7pole	8458 TOP V 8458 TOP V 8458 TOP V	25.783.0553.0 25.783.0653.0 25.783.0753.0	50 50 50	8458 TOP H 8458 TOP H 8458 TOP H	25.793.0553.0 25.793.0653.0 25.793.0753.0	50 50 50	
	8pole 9pole 10pole	8458 TOP V 8458 TOP V 8458 TOP V	25.783.0853.0 25.783.0953.0 25.783.1053.0	50 50 50	8458 TOP H 8458 TOP H 8458 TOP H	25.793.0853.0 25.793.0953.0 25.793.1053.0	50 50 50	
	11pole 12pole 13pole	8458 TOP V 8458 TOP V 8458 TOP V	25.783.1153.0 25.783.1253.0 25.783.1353.0	50 50 50	8458 TOP H 8458 TOP H 8458 TOP H	25.793.1153.0 25.793.1253.0 25.793.1353.0	50 50 50	
further number of poles upon request	14pole 15pole 16pole	8458 TOP V 8458 TOP V 8458 TOP V	25.783.1453.0 25.783.1553.0 25.783.1653.0	50 50 50	8458 TOP H 8458 TOP H 8458 TOP H	25.793.1453.0 25.793.1553.0 25.793.1653.0	50 50 50	
Accessories								
Marking upon request								
Test plug			Z5.553.2921.0	10		Z5.553.2921.0	10	

Spacing: 6.35 mm

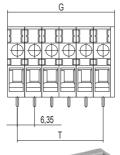
Rated cross section: 4.0 mm²

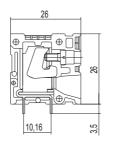
Rated current: 36 A

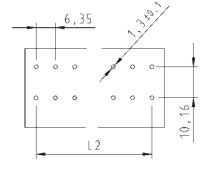
(related to an ambient termperature of 20 $^{\circ}\text{C}\textsc{,}$ the rated cross section and max. number of poles)

Connection range: 0.5 - 6.0 mm² solid/ 0.5 - 4.0 mm² fine stranded

320 V/4 kV/3 – Overvoltage category III 320 V/4 kV/2 – Overvoltage category II 320 V/4 kV/1 – Overvoltage category I











Solder pin Ø 0.8 x 0.9 mm Bore hole Ø 1.3 mm

Type 7386 TOP H

Rated voltages VDE 0110

UL ratings CSA ratings Approvals	L 0110	field/fa	ctory wi	ring	No. 22 – 10 AWG No. 22 – 10 AWG	300 V 300 V	30 A 30 A
	Std. pack	G	Т	Poles	Part no.		
Spacing: 6.35	mm				unmarked		
	50 50 50	14.20 20.55 26.90	6.35 12.70 19.05	2 3 4	27.714.0253.0 27.714.0353.0 27.714.0453.0		
	50 50 50	33.25 39.60 45.95	25.40 31.75 38.10	5 6 7	27.714.0553.0 27.714.0653.0 27.714.0753.0		
	50	52.30	44.45	8	27.714.0853.0		

wiecon PCB O T

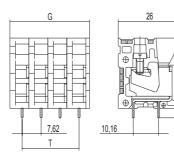
Rated cross section: 4.0 mm²

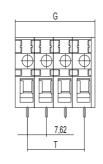
Rated current: 36 A

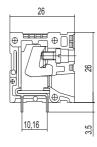
(related to an ambient temperature of 20°C, the rated cross section and max. number of poles)

Connection range: 0.5 - 6.0 mm² solid/ 0.5 - 4.0 mm² fine stranded

500 V/4 kV/3 – Overvoltage category III 630 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I







Solder pin 0.8 x 0.9 mm Bore hole Ø 1.3 mm





8486 TOP H

Solder pin 0.8 x 0.9 mm Bore hole Ø 1.3 mm



8486 TOP V

Rated voltages VDE 0110

No. 22 - 10 AWG 300 V 30 A No. 22 - 10 AWG 300 V 30 A UL ratings field wiring No. 22 - 10 AWG 300 V 30 A No. 22 - 10 AWG 300 V 30 A CSA ratings **BLR BLR** Approvals

Std. pack G T Poles Part no. Spacing: 7.62 mm unmarked unmarked 50 16.74 7.62 2 27.703.0253.0 27.713.0253.0 27.713.0353.0 27.713.0353.0 27.713.0353.0 27.713.0453.0 </th <th></th>	
Spacing: 7.62 mm unmarked 50 16.74 7.62 2 27.703.0253.0 27.713.0253.0 50 24.36 15.24 3 27.703.0353.0 27.713.0353.0	
50 16.74 7.62 2 27.703.0253.0 27.713.0253.0 50 24.36 15.24 3 27.703.0353.0 27.713.0353.0	

Accessories

Wiecon

Test plug and marking tag carrier for 8191 E / 8191 D / 8291 E / 8291 D can only be used in the upper tier.







- Jumper bar 2 to 24pole for 5.00 and 5.08 mm spacing upon request
- PC board connector with assembled jumper bar upon request

Type 8191 / 8191 E / 8191 D / 8192 Type 8291 / 8291 E / 8291 D

Type 8391/8491

Type 8135	/ 8235
Type 8191	ZW / 8291 ZW / 8192

Poles	Part no.	Std. pack	Poles	Part no.	Std. pack	Poles	Part no.	Std. pack
1 2	Test plug Z5.533.7121.0 Z5.533.7221.0	100 100	1 2	Test Plug Z5.533.7121.0 Z5.533.8221.0	100 50	1 2	Test plug Z5.533.7121.0 Z5.533.7221.0	100 100
1	Test plug, 1pole, 1 Z5.533.7121.0 Marking tag carrier for 12 poles, divisi configurations 04.242.4653.0	100				1	Test plug, 1pole, 10 Z5.533.7121.0 Marking tag carrier for 12 poles, divisib configurations 04.242.4653.0	100
	Marking strips, unn 04.242.5053.0	narked 25					Marking strips, unm 04.242.5053.0	arked 25
	1 – 10, 11 – 20 etc 04.842.5053.0	. 991 – 999, marked 25					1 - 10, 11 - 20 etc. 04.842.5053.0	991 – 999, marked 25
	Tear-off marking somarked 1, 2, 3 004.841.2150.0						Tear-off marking str marked 1, 2, 3 0 04.841.2150.0	25
	Single tag, unmark 04.242.0850.0	ted 500					Single tag, unmarke 04.242.0850.0	500
	marked 04.842.0850.0	500					marked 04.842.0850.0	500
						111		
1 - 12 13 - 24 25 - 36 37 - 48 49 - 60 61 - 72 73 - 84 85 - 96 97 - 108	Adhesive marking (1 sheet = 100strip 04.007.4089.0 04.007.4189.0 04.007.4289.0 04.007.4389.0 04.007.4489.0 04.007.4589.0 04.007.4689.0 04.007.4789.0 04.007.4789.0 04.007.4889.0	strips ss) 1 1 1 1 1 1 1 1 1 1 1				1 - 12 13 - 24 25 - 36 37 - 48 49 - 60 61 - 72 73 - 84 85 - 96 97 - 108	Adhesive marking s (1 sheet = 100strip 04.007.4089.0 04.007.4189.0 04.007.4289.0 04.007.4389.0 04.007.4589.0 04.007.4689.0 04.007.4689.0 04.007.4889.0	strips s) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

PC board connectors, rising cage clamp system

Spacing: 5.00/10.00 mm

wiecon

Rated cross section: 2.5 mm²

Rated current: 16 A

Connection range: $0.14 - 4.0 \text{ mm}^2 \text{ solid/}$ $0.14 - 2.5 \text{ mm}^2 \text{ fine stranded}$

250 V/4 kV/3 - Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV

Rated voltages VDE 0110 (Spacing: 5 mm) **UL** ratings CSA ratings



Type 8190 wire horizontal to PC board

No. 22 - 12 AWG No. 22 - 14 AWG

300 V 15 A 300 V 10 A

Solder pin 0.8 x 0.9 mm Bore hole Ø 1.2 mm





Accessories Type 8190

Approvals			(\$) 🕰 🕦 (£		Type or.	1 ype 0 130		
Std. pack	G	T Pole	s Part no.	Part no.	Poles	Part no. Std. pack		
Spacing: 5.00 mm			unmarked	marked		Test plug, nominal current = 2A		
100 100 50	10.86 15.86 20.86	10	2 25.131.0253.0 3 25.131.0353.0 4 25.131.0453.0	25.130.0253.0 25.130.0353.0 25.130.0453.0	1 2	Z5.543.0153.0 100 Z5.543.0253.0 100 Marking tag carrier for 12 poles, divisible for smaller pole		
50 50 50	25.86 30.86 35.86	25	5 25.131.0553.0 25.131.0653.0 7 25.131.0753.0	25.130.0553.0 25.130.0653.0 25.130.0753.0		configurations 04.242.4653.0 50 Marking strips, unmarked		
50 50 50	40.86 45.86 50.86		3 25.131.0853.0 9 25.131.0953.0 0 25.131.1053.0	25.130.0853.0 25.130.0953.0 25.130.1053.0		04.242.5053.0 25 1 – 10, 11 – 20 etc. 991 – 999, marked 04.842.5053.0 25		
50 50 50	55.86 60.86 65.86	50 1 55 1 60 1	2 25.131.1253.0	25.130.1153.0 25.130.1253.0 25.130.1353.0		Tear-off marking strip marked 1, 2, 3 0		
50 50 50	70.86 75.86 80.86	65 1 70 1 75 1	5 25.131.1553.0	25.130.1453.0 25.130.1553.0 25.130.1653.0		04.841.2150.0 25 Single tag, unmarked 04.242.0850.0 500		
17 to 24pole upon request			t			marked		
Spacing: 10.00 mm	Spacing: 10.00 mm		unmarked	04.842.0850.0 500				
50 50 50	20.86 30.86 40.86	20	2 25.133.0253.0 25.133.0353.0 4 25.133.0453.0	25.132.0253.0 25.132.0353.0 25.132.0453.0				
50 50 50	50.86 60.86 70.86	50	5 25.133.0553.0 6 25.133.0653.0 7 25.133.0753.0	25.132.0553.0 25.132.0653.0 25.132.0753.0	1			
50 50 50	80.86 90.86 100.86		3 25.133.0853.0 9 25.133.0953.0 0 25.133.1053.0	25.132.0853.0 25.132.0953.0 25.132.1053.0				
50 50	110.86 120.86	100 1 110 1		25.132.1153.0 25.132.1253.0				
Rated voltages: (spacing: 10.00 mm): VD 690 V/8 kV/3 – Overvol: 1000 V/8 kV/2 – Overvol: 1000 V/8 kV/1 – Overvol:	tage categ	gory II	Material: Insulating housing: Clamping body: zin Contact clip with s tin-plated E copper Clamping screw: z	older pin:	1 - 12 13 - 24 25 - 36 37 - 48 49 - 60 61 - 72 73 - 84 85 - 96 97 - 108	Adhesive marking strips (1 sheet = 100strips) 04.007.4089.0 1 04.007.4189.0 1 04.007.4289.0 1 04.007.4389.0 1 04.007.4489.0 1 04.007.4589.0 1 04.007.4689.0 1 04.007.4789.0 1 04.007.4789.0 1		

iecon

PC board connectors, rising cage clamp system

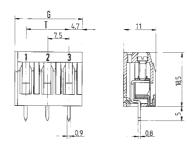
Spacing: 7.50 mm

Rated cross section: 2.5 mm²

Rated current: 16 A

Connection range: 0.14 – 4.0 mm² solid/ 0.14 – 2.5 mm² fine stranded

500 V/6 kV/3 – Overvoltage category III 1000 V/6 kV/2 – Overvoltage category II 1000 V/6 kV/1 – Overvoltage category I





Solder pin 0.8 x 0.9 mm Bore hole Ø 1.2 mm



Type 8390

wire horizontal to PC board

Rated voltages VDE 0110 UL ratings CSA ratings Approvals

No. 22 – 12 AWG No. 22 – 14 AWG (\$) \$\infty\$ \$\infty\$ \$\infty\$ 300 V 15 A 300 V 10 A

Accessories Type 8390

				9 2		. , po ooo.	
Std. pack	G	T	Poles	Part no.	Part no.	Poles	Part no. Std. pack
Spacing: 7.50 mm				unmarked	marked	1	Test plug / nominal current = 2 A
100 100 50	15.86 23.36 30.86	7.5 15.0 22.5	2 3 4	25.151.0253.0 25.151.0353.0 25.151.0453.0	25.150.0253.0 25.150.0353.0 25.150.0453.0	1 2	Z5.543.0153.0 100 Z5.543.0253.0 100
50 50 50	38.36 45.86 53.36	30.0 37.5 45.0	5 6 7	25.151.0553.0 25.151.0653.0 25.151.0753.0	25.150.0553.0 25.150.0653.0 25.150.0753.0		
50 50 50	60.86 68.36 75.86	52.5 60.0 67.5	8 9 10	25.151.0853.0 25.151.0953.0 25.151.1053.0	25.150.0853.0 25.150.0953.0 25.150.1053.0		
50 50	83.36 90.86	75.0 82.5	11 12	25.151.1153.0 25.151.1253.0	25.150.1153.0 25.150.1253.0		
				Material: Insulating housing: PA Clamping body: zinc-p Contact clip with sold tin-plated E copper Clamping screw: zinc	plated steel er pin:		

Spacing: 5.00/5.08 mm

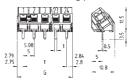
Rated cross section: 1.5 mm²

Rated current: 10 A

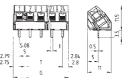
Connection range: 0.14 - 2.5 mm² solid/ 0.14 - 1.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

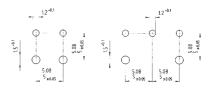
without insulating plate



with insulating plate, without fixing bolts



Bore hole plan for version with fixing bolts



* max. 600 V for ungrounded networks or expected



Type 8134/8234

M 3

Solder pin 0.5 x 1.0 mm Bore hole Ø 1.2 mm

Rated voltages VDE 0110

CS

overvoltage $\leq 4 \text{ kV}$

field/feets

No 20 14 AW/G

wire 35° to PC board

300 V 15/16 A 300 V 15 A

L ratings	field/factory wiring	No. 30 - 14 AVVG
SA ratings		No. 30 - 14 AWG
pprovals		₽₽₽₽

Approvals					⊕\$ ₹ ₹ 1			
	Std. pack	G	Т	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00) mm				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with fixing bolts
	100 100 50	10.55 15.55 20.55	5 10 15	2 3 4	25.501.0253.0 25.501.0353.0 25.501.0453.0	25.500.0253.0 25.500.0353.0 25.500.0453.0	25.501.6253.0 25.501.6353.0	25.500.6253.0 25.500.6353.0
	50 50 50	25.55 30.55 35.55	20 25 30	5 6 7	25.501.0553.0 25.501.0653.0 25.501.0753.0	25.500.0553.0 25.500.0653.0 25.500.0753.0		
	50 50 50	40.55 45.55 50.55	35 40 45	8 9 10	25.501.0853.0 25.501.0953.0 25.501.1053.0	25.500.0853.0 25.500.0953.0 25.500.1053.0		
	50 50 50	55.55 60.55 65.55	50 55 60	11 12 13	25.501.1153.0 25.501.1253.0 25.501.1353.0	25.500.1153.0 25.500.1253.0 25.500.1353.0		
	50 50 50	70.55 75.55 80.55	65 70 75	14 15 16	25.501.1453.0 25.501.1553.0 25.501.1653.0	25.500.1453.0 25.500.1553.0 25.500.1653.0		
	17	to 24pole	e upon re	quest				
Spacing: 5.08	3 mm							
	100 100 50	10.71 15.79 20.87	5.08 10.16 15.24	2 3 4	25.503.0253.0 25.503.0353.0 25.503.0453.0	25.502.0253.0 25.502.0353.0 25.502.0453.0	25.503.6253.0 25.503.6353.0	25.502.6253.0 25.502.6353.0
	50 50 50	25.95 31.03 36.11	20.32 25.40 30.48	5 6 7	25.503.0553.0 25.503.0653.0 25.503.0753.0	25.502.0553.0 25.502.0653.0 25.502.0753.0		
	50 50 50	41.19 46.27 51.35	35.56 40.64 45.72	8 9 10	25.503.0853.0 25.503.0953.0 25.503.1053.0	25.502.0853.0 25.502.0953.0 25.502.1053.0		
	50 50 50	56.42 61.51 66.59	50.80 55.88 60.96	11 12 13	25.503.1153.0 25.503.1253.0 25.503.1353.0	25.502.1153.0 25.502.1253.0 25.502.1353.0		
	50 50 50	71.67 76.75 81.83	66.04 71.12 76.20	14 15 16	25.503.1453.0 25.503.1553.0 25.503.1653.0	25.502.1453.0 25.502.1553.0 25.502.1653.0		
	17	to 24pole	e upon re	quest				

wiecon

Material:
Insulating housing: PA 66/6 gray, UL 94-V-0
Clamping body: nickel-plated brass
Contact clip with solder pin:
tin-plated bronze
Clamping screw: zinc-plated steel
Brass Nickel-plated
available upon request

Part no.	Part no.
unmarked with insulating plate without fixing bolts	marked with insulating plate with fixing bolts
upon request	upon request
upon request	upon request

Spacing: 5.00/5.08 mm

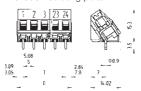
Rated cross section: 2.5 mm²

Rated current: 16 A

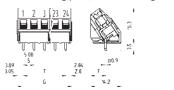
Connection range: 0.14 - 4.0 mm² solid/ 0.14 - 2.5 mm² fine stranded

250 V/4 kV/3 - Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

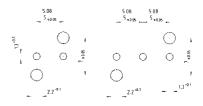
without insulating plate



with insulating plate, without fixing bolts



Bore hole plan for version with fixing bolts



Solder pin 0.9 x 0.9 mm Bore hole Ø 1.3 mm

* max, 600 V for ungrounded networks or expected overvoltage ≤ 4 kV

field/factory wiring



Type 8135/8235

wire 35° to PC board

No. 22 – 12 AWG No. 22 - 12 AWG **₽017** (1) (1)

300 V 20/30 A 300 V 25 A

M 3 6.5

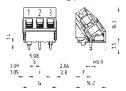
Rated voltages VDE 0110 **UL** ratings

CSA ratings Approvals

Approvais				2200 S D MU			
Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00 mm				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
100 100 50	10.85 15.85 20.85	5 10 15	2 3 4	25.521.0253.0 25.521.0353.0 25.521.0453.0	25.520.0253.0 25.520.0353.0 25.520.0453.0	25.521.6253.0 25.521.6353.0	25.520.6253.0 25.520.6353.0
50 50 50	25.85 30.85 35.85	20 25 30	5 6 7	25.521.0553.0 25.521.0653.0 25.521.0753.0	25.520.0553.0 25.520.0653.0 25.520.0753.0		
50 50 50	40.85 45.85 50.85	35 40 45	8 9 10	25.521.0853.0 25.521.0953.0 25.521.1053.0	25.520.0853.0 25.520.0953.0 25.520.1053.0		
50 50 50	55.85 60.85 65.85	50 55 60	11 12 13	25.521.1153.0 25.521.1253.0 25.521.1353.0	25.520.1153.0 25.520.1253.0 25.520.1353.0		
50 50 50	70.85 75.85 80.85	65 70 75	14 15 16	25.521.1453.0 25.521.1553.0 25.521.1653.0	25.520.1453.0 25.520.1553.0 25.520.1653.0		
Spacing: 5.08 mm	7 to 24pole	e upon re	quest				
100 100 50	11.01 16.09 21.17	5.08 10.16 15.24	2 3 4	25.523.0253.0 25.523.0353.0 25.523.0453.0	25.522.0253.0 25.522.0353.0 25.522.0453.0	25.523.6253.0 25.523.6353.0	25.522.6253.0 25.522.6353.0
50 50 50	26.25 31.33 36.41	20.32 25.40 30.48	5 6 7	25.523.0553.0 25.523.0653.0 25.523.0753.0	25.522.0553.0 25.522.0653.0 25.522.0753.0		
50 50 50	41.49 46.57 51.65	35.56 40.64 45.72	8 9 10	25.523.0853.0 25.523.0953.0 25.523.1053.0	25.522.0853.0 25.522.0953.0 25.522.1053.0		
50 50 50	56.73 61.81 66.89	50.80 55.88 60.96	11 12 13	25.523.1153.0 25.523.1253.0 25.523.1353.0	25.522.1153.0 25.522.1253.0 25.522.1353.0		
50 50 50	71.97 77.05 82.13	66.04 71.12 76.20	14 15 16	25.523.1453.0 25.523.1553.0 25.523.1653.0	25.522.1453.0 25.522.1553.0 25.522.1653.0		
1	7 to 24pole	e upon re	equest				

Wiecon

 $\mbox{\it with}$ insulating plate, $\mbox{\it with}$ fixing bolts



Material: Insulating housing: PA 66/6 gray, UL 94-V-0 Clamping body: nickel-plated brass Contact clip with solder pin: tin-plated E copper Clamping screw: zinc-plated steel Brass Nickel-plated available upon request

Part no.
marked with insulating plate without fixing bolts
upon request
upon request

Spacing: 5.00/5.08 mm

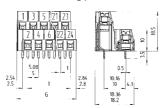
Rated cross section: 1.5 mm²

Rated current: 10 A

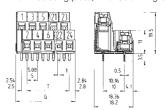
Connection range: 0.14 - 2.5 mm² solid/ 0.14 - 1.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

without insulating plate



with insulating plate, without fixing bolts





* max. 600 V for ungrounded networks or expected overvoltage $\leq 4 \text{ kV}$



M 3

Solder pin 0.5 x 1.0 mm Bore hole Ø 1.2 mm

Type 8192 E/8292 E wire horizontal to PC board

Rated voltages VDE 0110

UL ratings CSA ratings field/factory wiring

No. 30 - 14 AWG No. 30 - 14 AWG 300 V 15/16 A 300 V 15 A

provals				₽₽₽₽			
Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00 mm				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
50 50 50	13.05 18.05 23.05	5 10 15	4 6 8	25.198.5253.0 25.198.5353.0 25.198.5453.0	25.198.0253.0 25.198.0353.0 25.198.0453.0	25.198.9253.0 25.198.9353.0	25.198.4253.0 25.198.4353.0
50 50 50	28.05 33.05 38.05	20 25 30	10 12 14	25.198.5553.0 25.198.5653.0 25.198.5753.0	25.198.0553.0 25.198.0653.0 25.198.0753.0		
50 50 50	43.05 48.05 53.05	35 40 45	16 18 20	25.198.5853.0 25.198.5953.0 25.198.6053.0	25.198.0853.0 25.198.0953.0 25.198.1053.0		
50 50	58.05 63.05	50 55	22 24	25.198.6153.0 25.198.6253.0	25.198.1153.0 25.198.1253.0		
Spacing: 5.08 mm							
50 50 50	13.25 18.33 23.41	5.08 10.16 15.24	4 6 8	25.199.5253.0 25.199.5353.0 25.199.5453.0	25.199.0253.0 25.199.0353.0 25.199.0453.0	25.199.9253.0 25.199.9353.0	25.199.4253.0 25.199.4353.0
50 50 50	28.49 33.57 38.65	20.32 25.40 30.48	10 12 14	25.199.5553.0 25.199.5653.0 25.199.5753.0	25.199.0553.0 25.199.0653.0 25.199.0753.0		
50 50 50	43.73 48.81 53.89	35.56 40.64 45.72	16 18 20	25.199.5853.0 25.199.5953.0 25.199.6053.0	25.199.0853.0 25.199.0953.0 25.199.1053.0		
50 50	58.97 64.05	50.80 55.88	22 24	25.199.6153.0 25.199.6253.0	25.199.1153.0 25.199.1253.0		

Tear-off marking strip with 10 marking tags









Material: Polyamide 6/66 white/marking black	Marking per tree	Type Part no. Std. pack
unmarked marked with the same number	1 1 1 1 1 1 1 1 1 1	9704 A/1 B 04.241.1150.0 25 9704 A/1 B 04.841.1150.0 25
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9704 A/2 B 04.841.1250.0 25 9704 A/3 B 04.841.1350.0 25 9704 A/4 B 04.841.1450.0 25 9704 A/5 B 04.841.1550.0 25 9704 A/6 B 04.841.1650.0 25 9704 A/7 B 04.841.1750.0 25
	8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0 0	9704 A/8 B 04.841.1850.0 25 9704 A/9 B 04.841.1950.0 25 9704 A/0 B 04.841.2050.0 25
marked with consecutive numbers	1 2 3 4 5 6 7 8 9 0	9704 A/1-0 B 04.841.2150.0 25
marked with the same capital letters	A A A A A A A A A A A A A A A A A B	9704 A/AG B 9704 A/AG B 9704 A/BG B 9704 A/CG B
marked with the same symbols	a a a a a a a a a a a a a a a a a a a	9704 A/BK B 9704 A/CK B 9704 A/DK B 9704 A/EK B 9704 A/EK B 9704 A/FK B 9704 A/HK B 9704 A/MK B 9704 A/B B
·		9704 A/- B 04.841.7550.0 25 9704 A// B 04.841.7650.0 25 9704 A/. B 04.841.7750.0 25
1 set of the same numbers = 10×25 strips = 2500 numbers 1 set of cap. letters = 26×25 strips = 6500 letters 1 set of lower case letters = 26×25 strips = 6500 letters	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	111 to 000

Spacing: 5.00/5.08 mm

Rated cross section: 2.5 mm²

Rated current: 16 A

Connection range: 0.14 - 4.0 mm² solid/ 0.14 - 2.5 mm² fine stranded

250 V/4 kV/3 - Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV

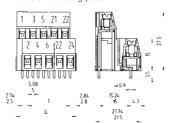
field/factory wiring

Rated voltages VDE 0110

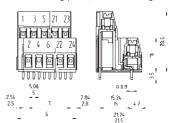
UL ratings

CSA ratings

without insulating plate



with insulating plate, without fixing bolts





Solder pin 0.9 x 0.9 mm Bore hole Ø 1.3 mm



Type 8191 E/8291 E

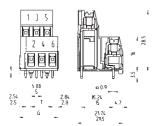
wire horizontal to PC board

No. 22 – 12 AWG No. 22 – 12 AWG

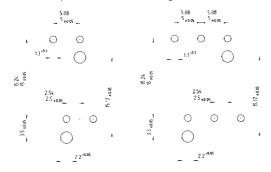
300 V 20/30 A 300 V 25 A

Approvals				₽01 P(0(\$)			
Std. pack	G	Т	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00 mm				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
50 50 50	18.05	5 10 15	4 6 8	25.178.5253.0 25.178.5353.0 25.178.5453.0	25.178.0253.0 25.178.0353.0 25.178.0453.0	25.178.9253.0 25.178.9353.0	25.178.4253.0 25.178.4353.0
50 50 50	33.05	20 25 30	10 12 14	25.178.5553.0 25.178.5653.0 25.178.5753.0	25.178.0553.0 25.178.0653.0 25.178.0753.0		
50 50 50	48.05	35 40 45	16 18 20	25.178.5853.0 25.178.5953.0 25.178.6053.0	25.178.0853.0 25.178.0953.0 25.178.1053.0		
50 50		50 55	22 24	25.178.6153.0 25.178.6253.0	25.178.1153.0 25.178.1253.0		
Spacing: 5.08 mm							
50 50 50	18.33	5.08 10.16 15.24	4 6 8	25.179.5253.0 25.179.5353.0 25.179.5453.0	25.179.0253.0 25.179.0353.0 25.179.0453.0	25.179.9253.0 25.179.9353.0	25.179.4253.0 25.179.4353.0
50 50 50	33.57	20.32 25.40 30.48	10 12 14	25.179.5553.0 25.179.5653.0 25.179.5753.0	25.179.0553.0 25.179.0653.0 25.179.0753.0		
50 50 50	48.81	35.56 40.64 45.72	16 18 20	25.179.5853.0 25.179.5953.0 25.179.6053.0	25.179.0853.0 25.179.0953.0 25.179.1053.0		
50 50		50.80 55.88	22 24	25.179.6153.0 25.179.6253.0	25.179.1153.0 25.179.1253.0		

$\mbox{\it with}$ insulating plate, $\mbox{\it with}$ fixing bolts



Bore hole plan for version with fixing bolts



Insulating housing: PA 66/6 gray, UL 94-V-2 Clamping body: nickel-plated brass Contact clip with solder pin: tin-plated E copper Clamping screw: zinc-plated steel

Part no.	Part no.
unmarked with insulating plate without fixing bolts	marked with insulating plate without fixing bolts
upon request	upon request
upon request	upon request

Spacing: 5.00 mm

wiecon PCB

Rated cross section:

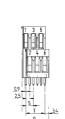
2.5 mm²

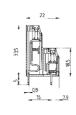
Rated current: 16 A

Connection range: 0.14 – 4.0 mm² solid/ 0.14 – 2.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV







Type 8190 E wire horizontal to PC board

Solder pin 0.8 x 0.9 mm Bore hole Ø 1.2 mm





Rated voltages VDE 0110 **UL** ratings CSA ratings Approvals

No. 22 – 12 AWG No. 22 - 14 AWG (\$) AN (B) 300 V 15 A 300 V 10 A

Accessories Type 8190 E

Std. pack	G	T	Poles	Part no.	Part no.	Poles		Std. pack
Spacing: 5.00 mm				unmarked	marked		Test plug, nominal	current = 2A
50	13.36	5	4	25.131.3253.0	25.130.3253.0	1 2	Z5.543.0153.0 Z5.543.0253.0	100 100
50	18.36	10	6	25.131.3353.0	25.130.3353.0	4	Marking tag carrier	100
50	23.36	15	8	25.131.3453.0	25.130.3453.0		for 12 poles, divisib	le for smaller pole
50	28.36	20	10	25.131.3553.0	25.130.3553.0		configurations	
50	33.36	25	12	25.131.3653.0	25.130.3653.0		04.242.4653.0	50
50	38.36	30	14	25.131.3753.0	25.130.3753.0		Marking strips, unm	arkad
50	43.36	35	16	25.131.3853.0	25.130.3853.0		04.242.5053.0	25
50	43.36	40	18	25.131.3953.0	25.130.3853.0		0 1.2 12.0000.0	20
50	53.36	45	20	25.131.4053.0	25.130.4053.0		1 - 10, 11 - 20 etc.	991 - 999, marked
							04.842.5053.0	25
50	58.36	50	22	25.131.4153.0	25.130.4153.0		Took off modeling of	ri na
50	63.36	55	24	25.131.4253.0	25.130.4253.0	Tear-off marking strip marked 1, 2, 3 0	ib	
							04.841.2150.0	25
							Single tag, unmarke	
							04.242.0850.0	500
							marked	
							04.842.0850.0	500
						1.		1
							1,14,14,14	
							11,10	
						1	\ / Y	
						-	Adhesive marking s	trips
							(1 sheet = 100strips	
	Material:					1 - 12	04.007.4089.0	1
Material:					13 - 24 25 - 36	04.007.4189.0 04.007.4289.0	1	
	/66 UI	94-\/-0				37 - 48	04.007.4289.0	1
Clamping hody: zinc-plat	Insulating housing: PA 6/66, UL 94-V-0 Clamping body: zinc-plated steel					49 - 60	04.007.4489.0	1
Contact clip with solder	nin:	1				61 - 72	04.007.4589.0	1
tin-plated E copper	ριιι.					73 – 84	04.007.4689.0	1
Clamping screw: zinc-pla	ated stee	ام				85 – 96 97 – 108	04.007.4789.0 04.007.4889.0	1 1
Ciamping screw. Zinc-pig	1150 3150	O1				37 - 100	U4.UU7.4003.U	I

wiecon

Spacing: 5.00/5.08 mm

Rated cross section: 2.5 mm²

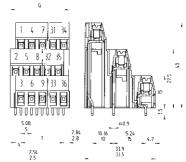
Rated current: 16 A

Connection range: 0.14 - 4.0 mm² solid/ 0.14 - 2.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I



without insulating plate



Solder pin 0.9 x 0.9 mm Bore hole Ø 1.3 mm



Type 8191 D/8291 D

wire horizontal to PC board

Rated voltages VDE 0110 **UL** ratings

CSA ratings

field/factory wiring

No. 22 – 12 AWG No. 22 - 12 AWG

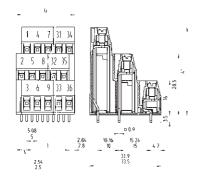
300 V 20/30 A 300 V 25 A

ARMENTA

pprovals				<u>@</u> \$D N @⊕			
Std. pack	G	T I	Poles	Part no.	Part no.	Part no.	Part no.
Spacing: 5.00 mm				unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with fixing bolts	marked with insulating plate with fixing bolts
50 50 50	12.8 17.8 22.8	5 10 15	6 9 12	25.180.5253.0 25.180.5353.0 25.180.5453.0	25.180.0253.0 25.180.0353.0 25.180.0453.0	25.180.9253.0 25.180.9353.0	25.180.4253.0 25.180.4353.0
50 50 50	27.8 32.8 37.8	20 25 30	15 18 21	25.180.5553.0 25.180.5653.0 25.180.5753.0	25.180.0553.0 25.180.0653.0 25.180.0753.0		
50 50 20	42.8 47.8 52.8	35 40 45	24 27 30	25.180.5853.0 25.180.5953.0 25.180.6053.0	25.180.0853.0 25.180.0953.0 25.180.1053.0		
20 20	57.8 62.8	50 55	33 36	25.180.6153.0 25.180.6253.0	25.180.1153.0 25.180.1253.0		
Spacing: 5.08 mm							
50 50 50	12.70 17.78 22.86	5.08 10.16 15.24	6 9 12	25.181.5253.0 25.181.5353.0 25.181.5453.0	25.181.0253.0 25.181.0353.0 25.181.0453.0	25.181.9253.0 25.181.9353.0	25.181.4253.0 25.181.4353.0
50 50 50	27.94 33.02 38.10	20.32 25.40 30.48	15 18 21	25.181.5553.0 25.181.5653.0 25.181.5753.0	25.181.0553.0 25.181.0653.0 25.181.0753.0		
50 50 20	43.18 48.26 53.34	35.56 40.64 45.72	24 27 30	25.181.5853.0 25.181.5953.0 25.181.6053.0	25.181.0853.0 25.181.0953.0 25.181.1053.0		
20 20	58.42 63.50	50.80 55.88	33 36	25.181.6153.0 25.181.6253.0	25.181.1153.0 25.181.1253.0		

^{*} max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV

\boldsymbol{with} insulating plate, $\boldsymbol{without}$ fixing bolts



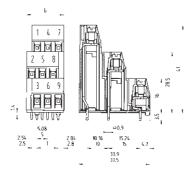
Material:

Insulating housing: PA 66/6 gray, UL 94-V-0 Clamping body: nickel-plated brass Contact clip with solder pin:

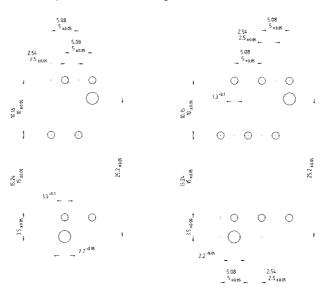
tin-plated E copper Clamping screw: zinc-plated steel

Part no.	Part no.
unmarked with insulating plate without fixing bolts	marked with insulating plate without fixing bolts
upon request	upon request
upon request	upon request

\boldsymbol{with} insulating plate, \boldsymbol{with} fixing bolts



Bore hole plan for version with fixing bolts



Spacing: 5.00 mm

wiecon PCB

Rated cross section: 1.5 mm², PE 2.5 mm²

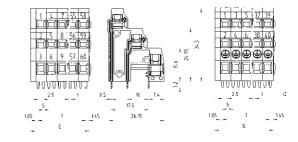
Rated current: 10 A

Connection range:

 $0.5 - 2.5 \; \text{mm}^2 \; \text{solid}$ $0.5 - 4.0 \; \text{mm}^2 \; (\text{PE})$ $0.5 - 1.5 \; \text{mm}^2 \; \text{fine stranded}$ $0.5 - 2.5 \; \text{mm}^2 \; (\text{PE})$

250 V/4 kV/3 – Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV





Solder pin 0.5 x 1.0 mm Bore hole Ø 1.2 mm

M 3

Material: **Type 8195 D/...** and **Type 8195 V/...**

Insulating housing: PA 6/66, UL 94-V-0 Clamping body: tin-plated brass Contact clip with solder pin: tin-plated Clamping screw: zinc-plated steel

Type 8195 D/...

wire horizontal to PC board

Rated voltages VDE 0110

UL ratings CSA ratings Approvals field/factory wiring

No. 30 – 14 AWG No. 30 – 14 AWG 300 V

10 A

No. 20 – 12 AWG for PE

14 AWG 300 V 10 A No. 20 – 12 AWG for Ground

90 LP

Std. pack	G	T	Poles	Part no.	Part no.
Spacing: 5.00 mm				unmarked	marked
50		7.50	6	25.153.2253.0	25.153.0253.0
50		12.50	9	25.153.2353.0	25.153.0353.0
50 50		17.50 22.50	12 15	25.153.2453.0 25.153.2553.0	25.153.0453.0 25.153.0553.0
50		27.50	18	25.153.2653.0	25.153.0653.0
50	37.50	32.50	21	25.153.2753.0	25.153.0753.0
50		37.50	24	25.153.2853.0	25.153.0853.0
20		42.50	27	25.153.2953.0	25.153.0953.0
20		47.50	30	25.153.3053.0	25.153.1053.0
,	33 to 60pol	e upon re	quest		
Later to a second section.				T 0405 D/ V/D4	
Initiator connectors	Œ) :		Type 8195 D/ VB1	po o rico d
Spacing: 5.00 mm	(=	jump	erea	unmarked	marked
50		2 PF	+ 4	25.153.6253.0	25.153.4253.0
50			+ 6	25.153.6353.0	25.153.4353.0
50		4 PE	+ 8	25.153.6453.0	25.153.4453.0
50		5 PE	+ 10	25.153.6553.0	25.153.4553.0
50			+ 12	25.153.6653.0	25.153.4653.0
50			+ 14	25.153.6753.0	25.153.4753.0
50 50			+ 16 + 18	25.153.6853.0 25.153.6953.0	25.153.4853.0 25.153.4953.0
20			+ 20	25.153.7053.0	25.153.5053.0
11 PE + 22 up to	20 PE + 4	0 upon re	quest	20.100.7000.0	20.100.0000.0
1					

eco

Rated cross section: 1.5 mm², PE 2.5 mm²

Rated current: 10 A

Connection range:

 $0.5 - 2.5 \; \text{mm}^2 \; \text{solid}$ $0.5 - 4.0 \; \text{mm}^2 \; (\text{PE})$ $0.5 - 1.5 \; \text{mm}^2 \; \text{fine stranded} \; 0.5 - 2.5 \; \text{mm}^2 \; (\text{PE})$ 0.5 - 4.0 mm² (PE)

250 V/4 kV/3 - Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

1.5 mm² 1.5 mm²

 1.5 mm^2

2.5 mm²





 $^{*}\,\,$ max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV

Type 8195 V/...

wire horizontal to PC board

Rated voltages VDE 0110

UL ratings CSA ratings Approvals

Spacing: 5.00 mm

field/factory wiring

No. 30 - 14 AWG No. 30 - 14 AWG 300 V 300 V

Part no.

marked

10 A 10 A No. 20 - 12 AWG for PE No. 20 - 12 AWG for Ground

91 (P Part no.

unmarked

50 50		7.50 12.50	8 12	25.154.2253.0 25.154.2353.0	25.154.0253.0 25.154.0353.0	
5(50 50	27.50	17.50 22.50 27.50	16 20 24	25.154.2453.0 25.154.2553.0 25.154.2653.0	25.154.0453.0 25.154.0553.0 25.154.0653.0	
50 50 20	42.50	32.50 37.50 42.50	28 32 36	25.154.2753.0 25.154.2853.0 25.154.2953.0	25.154.0753.0 25.154.0853.0 25.154.0953.0	
20	52.50 44 to 80pol	47.50 le upon red	40 quest	25.154.3053.0	25.154.1053.0	
la taliata				T 20105 V/	VP4	
Initiator connectors Spacing: 5.00 mm	Œ	jumpe	ered	Type 8195 V/ unmarked	marked	Bore hole plan Type 8195 D/ and Type 8195 V/
50 50		2 PE 3 PE		25.154.6253.0 25.154.6353.0	25.154.4253.0 25.154.4353.0	1ype 0133 v/
50 50 50)	4 PE 5 PE 6 PE	+ 15	25.154.6453.0 25.154.6553.0 25.154.6653.0	25.154.4453.0 25.154.4553.0 25.154.4653.0	
50 50 50)	7 PE 8 PE 9 PE	+ 24	25.154.6753.0 25.154.6853.0 25.154.6953.0	25.154.4753.0 25.154.4853.0 25.154.4953.0	25+18
20)	10 PE	+ 30	25.154.7053.0	25.154.5053.0	1.52008
11 PE + 33 up t	o 20 PE + 6	0 upon red	quest			1201
						10 seon
						O O O O '

Spacing: 7.50 mm

iecon

Rated cross section: 4.0 mm²

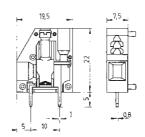
Rated current: 30 A

Connection range: 0.14 - 6.0 mm² solid/ 0.14 - 4.0 mm² fine stranded

Rated voltages:

Spacing: 7.50 mm
500 V/6 kV/3 – Overvoltage category III
1000 V/6 kV/2 – Overvoltage category II 1000 V/6 kV/1 – Overvoltage category I

Spacing: 10.00 mm, UL 600 V, CSA 600 V 690 V/8 kV/3 – Overvoltage category III 1000 V/8 kV/2 – Overvoltage category II 1000 V/8 kV/1 – Overvoltage category I



Material:

Insulating housing: PA 66/6 gray, UL 94-V-0 Clamping body: zinc-plated steel Contact clip with solder pin:

tin-plated É copper

Clamping screw: zinc-plated steel





Solder pin 0.8 x 1.0 mm Bore hole Ø 1.3 mm

Type 8375

wire horizontal to PC board No. 22/30 - 10 AWG No. 22 - 10 AWG

300 V 30/35 A 300 V/600 V* 30 A

Rated voltages VDE 0110 **UL** ratings field/factory wiring

CSA ratings Approvals

€®R®®

	900100	,			
	Туре	Part no.	Std. pack		
1pole	8375	25.700.0153.0	100		
	-		. t		
from 7.50 to 10.00 mm)		07.300.2753.0	50		
	ST 2/2,3	Z5.553.2921.0	10		
unmarked	9705 A/7,5/10	04.242.7553.0	25		
1)marked	9705 A/7,5/10 B	04.842.7553.0	25		
marked. 1, 2, 3 0	9704 A/1-0 B	04.841.2150.0	25		
unmarked	9705 A	04.242.0850.0	500		
1)marked	9705 AB	04.842.0850.0	500		
n pole					
	from 7.50 to 10.00 mm) unmarked 1)marked marked. 1, 2, 3 0 unmarked 1)marked	from 7.50 to 10.00 mm) ST 2/2,3 unmarked 9705 A/7,5/10 B marked. 1, 2, 3 0 9704 A/1-0 B unmarked 9705 A ¹¹marked 9705 A ¹¹marked 9705 A 9705 AB	from 7.50 to 10.00 mm) ST 2/2,3 unmarked 9705 A/7,5/10 B 04.842.7553.0 marked. 1, 2, 3 0 9704 A/1-0 B 04.841.2150.0 unmarked 9705 A unmarked 9705 A 04.242.0850.0 1)marked 9705 A 04.242.0850.0 04.842.0850.0	Type Part no. Std. pack 1pole 8375 25.700.0153.0 100 from 7.50 to 10.00 mm) 07.300.2753.0 50 ST 2/2,3 Z5.553.2921.0 10 unmarked 9705 A/7,5/10 04.242.7553.0 25 1marked 9705 A/7,5/10 B 04.842.7553.0 25 marked. 1, 2, 3 0 9704 A/1-0 B 04.841.2150.0 25 unmarked 9705 A 04.242.0850.0 500 1marked 9705 AB 04.842.0850.0 500	Type Part no. Std. pack 1 pole 8375 25.700.0153.0 100 from 7.50 to 10.00 mm) 07.300.2753.0 50 ST 2/2,3 Z5.553.2921.0 10 unmarked 9705 A/7,5/10 B 04.842.7553.0 25 marked. 1, 2, 3 0 9704 A/1-0 B 04.842.7553.0 25 unmarked 9705 A 04.242.0850.0 500 unmarked 9705 A 04.242.0550.0 500 unmarked 9705 A 04.242.0850.0 500

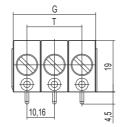
Rated cross section: 10.0 mm²

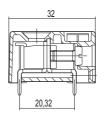
Rated current: 59 A

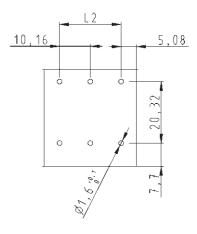
(related to an ambient temperature of 20°C, the rated cross section and max. number of poles)

Connection range: 0.50 – 10.0 mm² ein-/fine stranded

400 V/6 kV/3 – Overvoltage category III 690 V/6 kV/2 – Overvoltage category II 1000 V/6 kV/1 – Overvoltage category I









Solder pin 1.2 x 1.4 mm Bore hole Ø 1.6 mm



available from 09/2001

Type 7573 L2.../W

Rated voltages VDE 0110 UL ratings

CSA ratings Approvals

field/factory wiring

No. 22 - 8 AWG No. 22 - 8 AWG 300 V 10 A 300 V 10 A

10 LP

pprovals				91 (0)	
Std. pack	G	T	Poles	Part no.	
Spacing: 10.16 mm				unmarked	
50 50	10.16 30.48 40.64		1	27.002.6153.0 27.002.6353.0 27.002.6453.0	
50 50	30.48 40.64	20.32 30.48	3 4	27.002.6353.0 27.002.6453.0	
	10.01	00.10	•	27.002.0100.0	

wiecon

Rated cross section: 10 mm²

Rated current: 57 A

(related to an ambient temperature of 20°C, the rated cross section and max. number of poles)

Connection range:

0.50 – 16.0 mm² solid/ 0.50 – 10.0 mm² fine stranded

Rated voltages VDE 0110

Rated voltages:

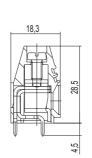
4 solder pins

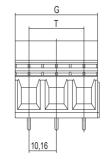
250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category III 630 V/4 kV/2 – Overvoltage category II

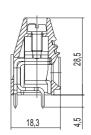
2 solder pins

630 V/8 kV/3 – Overvoltage category III 800 V/8 kV/2 – Overvoltage category III 1000 V/8 kV/2 – Overvoltage category II

10,16







Solder pin 1.2 x 1.2 mm Bore hole Ø 1.6 mm

4 solder pins





Solder pin 1.2 x 1.2 mm Bore hole Ø 1.6 mm

2 solder pins



Type 7572 L4

No. 22 – 8 AWG

No. 22 - 8 AWG field/factory wiring

UL ratings CSA ratings Approvals

91/8

300/150 V 10/40 A 300 V 10 A No. 22 – 8 AWG No. 22 – 8 AWG

Type 7572 L2

300/150 V 10/40 A 300 V 10 A

B*LR*

Std. pack	G	Т	Poles	Part no.	Part no.
Spacing: 10.16 mm					unmarked
50 50	20.32 30.48	10.16 20.32	2	27.002.0253.0 27.002.0353.0	27.002.2253.0 27.002.2353.0

wiecon

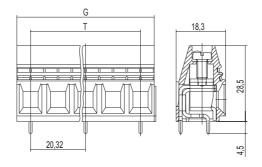
Rated cross section: 10 mm²

Rated current: 57 A

(related to an ambient temperature of 20°C, the rated cross section and max. number of poles)

Connection range: 0.50 - 16.0 mm² solid/ 0.50 - 10.0 mm² fine stranded

Rated voltages: 1000 V/8 kV/3 – Overvoltage category III





Solder pin 1.2 x 1.2 mm Bore hole Ø 1.6 mm



Type 7572 L2

Rated voltages VDE 0110

CSA No. 22 – 6 AWG 600 V 60 A Approvals

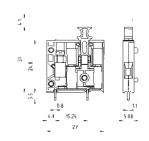
				-	
Std. pack	G	T	Poles	Part no.	
Spacing: 20.32 mm				unmarked	
50 50	30.48 50.64	20.32 40.48	2	27.002.4253.0 27.002.4353.0	
					27

Spacing: 5.08 mm

Rated cross section: 4.0 mm² solid/ 2.5 mm² fine stranded

Rated current type 8276: 26 A Rated current type 8276 TKS: 15 A

Connection range: 0.14 - 4.0 mm² solid/ 0.14 - 2.5 mm² fine stranded



250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

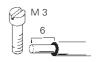


Solder pin 0.8 x 1.1 mm Bore hole Ø 14 mm





Solder pin 0.8 x 1.1 mm Bore hole Ø 1.4 mm



Rated voltages VDE 0110 UL ratings CSA ratings

field/factory wiring

Type 8276 Feed through block No. 30 - 14 AWG No. 30 - 14 AWG

Type 8276 TKS 300 V 15/23 A 300 V 20 A

Plunger disconnect block No. 30 - 14 AWG No. 30 - 14 AWG

300 V 15 A 300 V 15 A

pprovals	91/4			91/9		
	Туре	Part no.	Std. pack	Туре	Part no.	Std. pack
Spacing: 5.08 mm						
Single poles, snap together 1p	oole 8276	25.720.1353.0	100	8276 TKS	25.720.1453.0	100
Pre-assembled pole configurations upon requ	uest					
Accessories						
dhesive marking strips						
	1 - 12 13 - 24 25 - 36 37 - 48 49 - 60 61 - 72 73 - 84 85 - 96 97 - 108	04.007.4089.0 04.007.4189.0 04.007.4289.0 04.007.4389.0 04.007.4489.0 04.007.4589.0 04.007.4689.0 04.007.4789.0 04.007.4889.0	1 1 1 1 1 1 1 1	1 - 12 13 - 24 25 - 36 37 - 48 49 - 60 61 - 72 73 - 84 85 - 96 97 - 108	04.007.4089.0 04.007.4189.0 04.007.4289.0 04.007.4389.0 04.007.4489.0 04.007.4689.0 04.007.4789.0 04.007.4789.0	1 1 1 1 1 1 1 1
est plug, red	ST 2/2,3	Z5.553.2921.0		ST 2/2,3	Z5.553.2921.0	10
	Clamping Contact cl tin-plated	Type 8276 housing: PA 66/6 body: nickel-plate ip with solder pir	ed brass i:	Material: Ty V-0 Insulating h Plunger: PA Clamping b Contact spr special cop Clamping s	vpe 8276 TKS ousing: PA 66/6 o 66/6 orange, U ody: nickel-plate ing with solder p per alloy, tin-pla crew: zinc-plated knife: tin-plated	L 94-V-0 d brass pin: ted d steel

PC board connectors, rising cage clamp system Spacing: 5.08 mm

Rated cross section: 2.5 mm²

Rated current: 6.3 A**

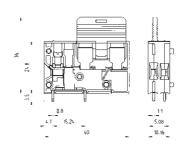
Connection range: 0.14 – 4.0 mm² solid/ 0.14 – 2.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III *690 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

- * $\,$ max. 600 V for ungrounded networks or expected overvoltage $\leq 4 \text{ kV}$
- ** voltage and current ratings are determined by the inserted G fuse. 6.3 A up to a loss of 1.6 W

For the selection and use of G fuses follow IEC 60 127-2/DIN VDE 0820 T2.

Rated voltages VDE 0110 UL ratings CSA ratings Approvals





Solder pin 0.8 x 1.1 mm and 0.5 x 1.1 mm Bore hole Ø 1.4 mm



Type 8276 Si-DGround feed through block (for 5 x 20 fuses)

No. 30 - 14 AWG 6,3 A No. 30 - 14 AWG 300 V 6,3 A

B117

Approvals	47 6			
	Туре	Part no.	Std. pack	
Spacing: 5.08 mm				
Single poles, snap together 1pole	8276 Si-D	25.720.1653.0	100	
Pre-assembled pole configurations upon request				
Accessories				
Adhesive marking strips				
	1 - 12 13 - 24 25 - 36 37 - 48 49 - 60 61 - 72 73 - 84 85 - 96 97 - 108	04.007.4089.0 04.007.4189.0 04.007.4289.0 04.007.4389.0 04.007.4489.0 04.007.4589.0 04.007.4689.0 04.007.489.0	1 1 1 1 1 1 1 1 1	
unmarked for own marking Test plug, red	ST 2/2,3	04.007.3989.0 Z5.553.2921.0	10	
. soc plag, los	Material: Type Insulating hou Fuse holder: I Clamping bod Contact clip w special coppe Contact spring	e 8276 Si-D using: PA 66/6 PA 66/6 orang ly: nickel-plate vith solder pin er alloy, tin-pla g with solder p er alloy, tin-pla	gray, UL 94-V-0 e, UL 94-V-0 d brass : ted bin: ted	

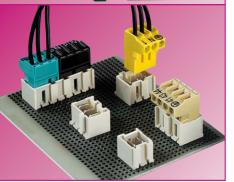
Type 8105 B, *RAST 5* connection, PC board pluggables, tab connectors

wiecon PCB



Technological advancements often appear first in electrical appliances. Printed circuit boards, which centralize and conduct signal and power to equipment, serve as a primary and essential function in this technology. Wieland Electric has designed advanced pluggable PC board screw connectors as an integral component to printed circuit boards. Using RAST 5 technology, a European standard for appliance wiring and component design, Wieland offers a wide selection of PC board connectors for the manufacture of advanced electrical appliances.





The fixed coding facilities (without coding strip) of the 8105 type are designed for the RAST 5 standard and meets all current requirements of "white goods". The same applies for the different versions, i.e. with vertical connection right and left in addition to the horizontal one, or flat blade connectors in straight design.

They are all based on a rated current of 10A. The pole configurations range from 2 to 7 poles. Both fine stranded wires of 0.14 mm² to 2.5 mm², with and without ferrules, and solid wires of 0.14 mm² to 4 mm² can be connected.



Wiecon

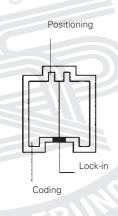
	Page 382	Page 382	Page 383	Page 383	Page 383
		U	II		
Туре	8105 B/ C	8105 B/CVR	8105 B/CVL	8105 F/GC	8105 F/WC
Spacing mm	5.00	5.00	5.00	5.00	5.00
Cross section mm ²	2.5	2.5	2.5	-	_
Number of poles	2-7	2 - 7	2 - 7	2-7	2 - 7

1

C 2

1 1 1 1 7

RAST 5 **Coding plan**



	C 1	[1	C 1	C 1	[1
1	2	1 3	1	1	1 6
	[2	C 2	C 2	C 2	C 2
1	2	1 3	1	1	1 6
	[3	(3	C 3		
1	2	1 3	1		
	C 4	C 4	(4		
1	[] 2	1 3	1		
	C 5	C 5	C 5		
1	2	1 3	1		
	[6]	C 6	C 6		
1	2	1 3	1		
	C 7	c 7			
1	2	1 3			

RAST 5

PC board pluggables, spacing: 5.00 mm

wiecon PCB

Rated cross section:

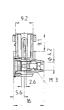
2.5 mm²

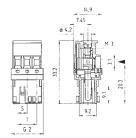
Rated current: 10 A

Connection range: 0.20 – 4.0 mm² solid/ 0.14 – 2.5 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

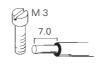
















Type 8105 B/... C... OB

Type 8105 B/... C... VR OB

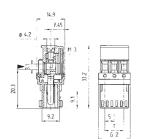
Rated voltages VDE 0110 UL ratings CSA ratings

No. 26 - 12 AWG No. 26 - 12 AWG 300 V 10 A No. 26 - 12 AWG 300 V 10 A No. 26 - 12 AWG 300 V 10 A 300 V 10 A

Approvals 2U**18**3 🕰 2**11** 12

Approvais		(TAI)	VIEW (TAU)
Std. pack	Poles Code	Part no.	Part no.
PC board pluggables / tab co	nnectors	unmarked	unmarked
100	2 C0	15.000.0253.0	15.020.0253.0
100	C1	15.001.0253.0	15.021.0253.0
100	C2	15.002.0253.0	15.022.0253.0
100	C3	15.003.0253.0	15.023.0253.0
100	C4	15.004.0253.0	15.024.0253.0
100	C5	15.005.0253.0	15.025.0253.0
100	C6	15.006.0253.0	15.026.0253.0
100	C7	15.007.0253.0	15.027.0253.0
100	3 C0	15.000.0353.0	15.020.0353.0
100	C1	15.001.0353.0	15.021.0353.0
100	C2	15.002.0353.0	15.022.0353.0
100	C3	15.003.0353.0	15.023.0353.0
100	C4	15.004.0353.0	15.024.0353.0
100	C5	15.005.0353.0	15.025.0353.0
100	C6	15.006.0353.0	15.026.0353.0
100	C7	15.007.0353.0	15.027.0353.0
50	4 C0 C1 C2	15.000.0453.0	15.020.0453.0
50		15.001.0453.0	15.021.0453.0
50		15.002.0453.0	15.022.0453.0
50	C3	15.003.0453.0	15.023.0453.0
50	C4	15.004.0453.0	15.024.0453.0
50	C5	15.005.0453.0	15.025.0453.0
50	C6	15.006.0453.0	15.026.0453.0
50	5 C0	15.000.0553.0	15.020.0553.0
50	C1	15.001.0553.0	15.021.0553.0
50	C2	15.002.0553.0	15.022.0553.0
50	6 C0	15.000.0653.0	15.020.0653.0
50	C1	15.001.0653.0	15.021.0653.0
50	C2	15.002.0653.0	15.022.0653.0
50	7 C0	15.000.0753.0	15.020.0753.0
50	C1	15.001.0753.0	15.021.0753.0
50	C2	15.002.0753.0	15.022.0753.0

RAST 5 **Tab connectors**







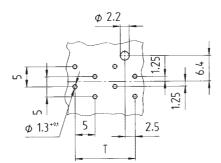
Type 8105 B/... C... VL OB

No. 26 - 12 AWG 300 V No. 26 - 12 AWG 300 V

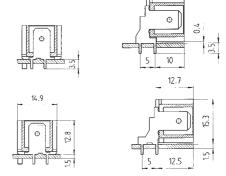
2**12**10

10 A 10 A

Bore hole plan, side view



No positioning stud for version 8105 F/... WC ...OB









Type 8105 F/... GC ... OB / 8105 F/... WC... OB

Rated voltages VDE 0110 UL ratings CSA ratings Approvals

No. 26 - 12 AWG No. 26 - 12 AWG

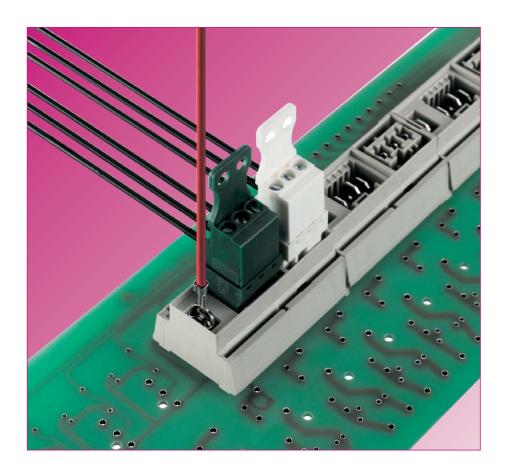
300 V 10 A 300 V 10 A

√oe

(74)	Approvais					(von)	
Part no.	Std. pack	G1	G2	G3	Т	Part no.	Part no.
unmarked				RAS	ST 5	unmarked	unmarked
15.010.0253.0 15.011.0253.0 15.012.0253.0	100 100 100	10 10 10	11.8 11.8 11.8	12 12	5 5 5	15.301.0258.9 15.302.0258.9	15.311.0258.9 15.312.0258.9
15.013.0253.0 15.014.0253.0 15.015.0253.0	100 100 100	10 10 10	11.8 11.8 11.8	12 12 12	5 5 5	15.303.0258.9 15.304.0258.9 15.305.0258.9	15.313.0258.9 15.314.0258.9 15.315.0258.9
15.016.0253.0 15.017.0253.0	100 100	10 10	11.8 11.8	12 12	5 5	15.306.0258.9 15.307.0258.9	15.316.0258.9 15.317.0258.9
15.010.0353.0 15.011.0353.0 15.012.0353.0	100 100 100	15 15 15	16.8 16.8 16.8	17 17	10 10 10	15.301.0358.9 15.302.0358.9	15.311.0358.9 15.312.0358.9
15.013.0353.0 15.014.0353.0 15.015.0353.0	100 100 100	15 15 15	16.8 16.8 16.8	17 17 17	10 10 10	15.303.0358.9 15.304.0358.9 15.305.0358.9	15.313.0358.9 15.314.0358.9 15.315.0358.9
15.016.0353.0 15.017.0353.0	100 100	15 15	16.8 16.8	17 17	10 10	15.306.0358.9 15.307.0358.9	15.316.0358.9 15.317.0358.9
15.010.0453.0 15.011.0453.0 15.012.0453.0	50 50 50	20 20 20	21.8 21.8 21.8	22 22	15 15 15	15.301.0458.9 15.302.0458.9	15.311.0458.9 15.312.0458.9
15.013.0453.0 15.014.0453.0 15.015.0453.0	50 50 50	20 20 20	21.8 21.8 21.8	22 22 22	15 15 15	15.303.0458.9 15.304.0458.9 15.305.0458.9	15.313.0458.9 15.314.0458.9 15.315.0458.9
15.016.0453.0	50	20	21.8	22	15	15.306.0458.9	15.316.0458.9
15.010.0553.0 15.011.0553.0 15.012.0553.0	50 50 50	25 25 25	26.8 26.8 26.8	27 27	20 20 20	15.301.0558.9 15.302.0558.9	15.311.0558.9 15.312.0558.9
15.010.0653.0 15.011.0653.0 15.012.0653.0	50 50 50	30 30 30	31.8 31.8 31.8	32 32	25 25 25	15.301.0658.9 15.302.0658.9	15.311.0658.9 15.312.0658.9
15.010.0753.0 15.011.0753.0 15.012.0753.0	50 50 50	35 35 35	36.8 36.8 36.8	37 37	30 30 30	15.301.0758.9 15.302.0758.9	15.311.0758.9 15.312.0758.9

RAST 5 connection Potential distributor for PC board, spacing: 5.00 mm

wiecon PCB



Custom connection modules in RAST 5 connection style

Main field of application:

RAST 5 connection style: "white" and "red goods"

Major benefits of RAST 5:

- fixed integrated codingpotential for mismating eliminated
- available in different colors (benefit: plug connectors and headers are immediately and correctly assigned e.g. in assembly line mounting)

 • ideal for off-site harness assembly

Wieland offers custom modifications e.g. RAST 5 connection module units with

- integrated jumper
- (e. g. ground connection)
 plug connectors and headers in the connection module for potential distribution (current-carrying part must always be the plug connector)

 any plug connector/header combination in
- different pole configurations
- different colors

ecol

Rated cross section: 2.5 mm²

Rated current: 10 A

Connection range: 0.14 – 4.0 mm² solid/ 0.14 – 2.5 mm² fine stranded

250 V/2.5 kV/3 – Overvoltage category III *690 V/2.5 kV/2 – Overvoltage category II 1000 V/2.5 kV/1 – Overvoltage category I

Number of poles: 2 - 7

* max. 600 V for ungrounded networks or expected overvoltage ≤ 4 kV













Plug

Rated voltages VDE 0110 UL ratings CSA ratings - pending

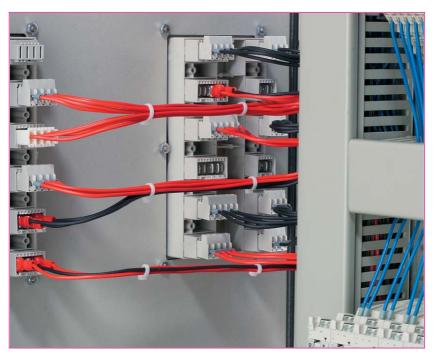
oprovals	211 P 2 ඣ					
	Type	Part no.	Std. pack	Type	Part no.	Std. pack
Spacing: 5.00 mm						
		99.243.3564.7	100	Header with handle, white	99.239.3564.7	100
				Plug with handle, green	99.259.3564.7	100

Termination module TM 6 / TM 12

wiecon TER



External wiring



Internal wiring

RAST 5 connection (IP 54 rated) Termination Modules for Industrial Plant Construction

The time consuming hard wiring cable connections to control cabinets can now be avoided. The modular *RAST 5* termination module by Wieland is a low cost and faster method to connect control cabinets for industrial plant construction.

This wiring system with its pre-assembled cable harness and coded connectors was developed to optimize the "start-up" of industrial plants.

Because the wires and codings are 100 percent tested, manufacturing is time and cost efficient and installation is vastly simplified.

The benefits compared to former PG gland wiring are obvious:

- installation times reduced by 80 % compared to traditional techniques
- time and cost saving pre-assembled cables
- Cable connections are IP 54 rated
- no errors as mismating is impossible
- no specialists required to complete external wiring

eco



The external RAST 5 connectors are available in 3 to 5 pole configurations. Their secure coding prevents mismating. By means of marking labels the headers can be quickly assigned to the plug connectors in multi-pole modules.

External connection lines with special connectors, which provide sealing with IP 54 protection, are delivered with preassembled custom cables.

The other cable ends can also be fitted with further components such as DIN outlet boxes for temperature signal conditioners.

> Internal wiring is completed either with insulated

- RAST 5 tab connectorsRAST 5 screw connectors
- RAST 5 crimp connectors

System design

- 2 basic modules are available
- module with 6 slots = TM 6
- module with 12 slots = TM 12



TM 6

The TM6 module is available in versions:

- 6 slots, 3pole = type TM 6-3
- 6 slots, 4pole = type **TM 6-4**
- 6 slots, 5pole = type **TM 6-5**

All these versions are coded to prevent mismating, meaning that the slots in the module are all different. Two different versions are available for each type.

Cable types for the external lines

The following standard cable types are available:

- Ölflex Quattro 150 in 3, 4 and 5 pole configurations
- Ölflex Quattro 150 CY (shielded version) in 3, 4, and 5 pole configurations

The system provides a large number of combinations of modules, codings and cables and enables various custom wiring solutions.

Depending on the order quantities, special module versions and cables are also possible.

To try out the variations, you can order the function set TM 6-5 with cables.

Technical information on the TM modules and external cables:

Connector cross section: 1.5 mm² (standard)

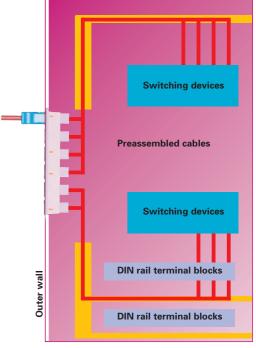
Rated voltage:

250 V/4 kV/3 - Overvoltage category III

Rated current: 10 A

Approvals (pending): UL, CSA and VDE

Example of TM module 6/12 in a control cabinet





The TM 12 module is available in versions: 12 slots in two rows of 6

- 3pole / 3pole = type **TM 12-33**
- 3pole / 4pole = type **TM 12-34**
- 4pole / 4pole = type **TM 12-44**
- 3pole / 5pole = type **TM 12-35**



Function set TM 6

wiecon TER

Function set consisting of 1 x TM 6-5, incl. cable set 6 x 10 m type Ölflex Quattro 5 x 1.5 mm 2 with one 5pole connector each in tab version





6 slots, 3pole = type **TM 6-3**



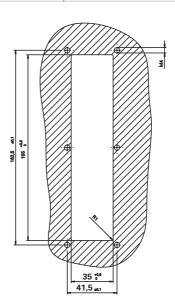
6 slots, 4pole = type **TM 6-4**

Typ TM 6-5 F

Typ TM 6-3

Typ TM 6-4

Туј	oe .	Part no.	Std. pack	Type	Part no.	Std. pack		Type	Part no.	Std. pack	
TN	И 6-5 F	99.483.0000.0		TM 6-3			upon	TM 6-4			upon
				coding upon red	juest	rec	quest	coding upon req	uest		request



or bore hole D = 3.8 mm for self-tapping screw 05.084.0212.0

Outer dimensions, cut-out and bore hole configuration are the same for all TM 6 versions

Wiecon



Typ TM 6-5

6 slots, 5pole = type **TM 6-5**





TM 6 cover

fits all pole configurations

Locking piece

, ·				•	•				
Type	Part no.	Std. pack		Туре	Part no.	Std. pack	Туре	Part no.	Std. pack
TM 6-5 coding upon requ	ıest	r	upon equest	TM 6-X	15.800.9956.0		3pole 4pole 5pole	05.562.5957.1 05.562.6557.1 05.562.8257.1	
							Орого	00.002.0207.1	

Function set TM 12

wiecon TER O



12 slots, in two rows of 6 3pole / 3pole = type **TM 12-33**



12 slots, in two rows of 6 3pole / 4pole = type **TM 12-34**



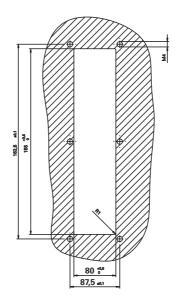
12 slots, in two rows of 6 4pole / 4pole = type **TM 12-44**

Typ TM 12-33

Typ TM 12-34

Typ TM 12-44

Type	Part no.	Std. pack	Ty	уре	Part no.	Std. pack		Type	Part no.	Std. pack	
TM 12-33			upon T	TM 12-34			upon	TM 12-44			upon
coding upon	request	re	equest c	oding upon req	uest		request	coding upon r	equest		request



or bore hole
D = 3.8 mm for self-tapping screw
05.084.0212.0

Outer dimensions, cut-out and bore hole configuration are the same for all TM 6 versions

Wiecon



Typ TM 12-55

12 slots, in two rows of 6 3pole / 5pole = type **TM 12-35**



TM 12 cover

fits all TM 12-XX pole configurations



Locking piece

Туре	Part no.	Std. pack	Type	Part no.	Std. pack	Type	Part no.	Std. pack
TM 12-35 coding upon	request	upon request	TM 12-XX	15.800.8856.0		3pole 4pole 5pole	05.562.5957.1 05.562.6557.1 05.562.8257.1	

In-line connector (insulation displacement connection)

Spacing: 5.00/5.08 mm

wiecon ASI

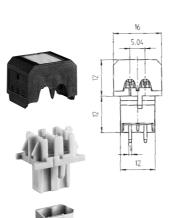
Rated cross section: 0.75 mm²

Rated current: 3 A

Connection range: 0.50 – 0.75 mm² fine stranded

250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I

Current range: from 3 mA up to 3 A





Solder pin 1.0 x 1.0 mm Bore hole Ø 1.4 mm

3 A

3 A

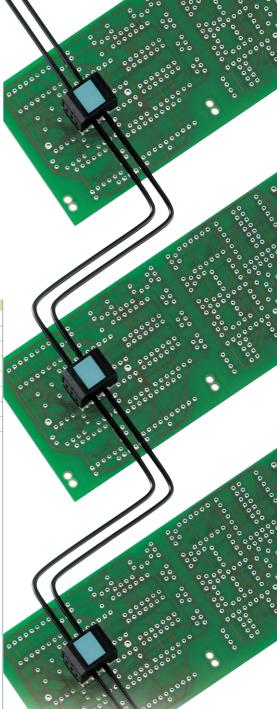
Typ 8113 BSK/2

Rated voltages VDE 0110
UL ratings field/factory wiring
CSA ratings
Approvals

No. 20 – 18 AWG 300 V No. 20 – 18 AWG 300 V

FLI

Spacing: 5.00/5.08 mm			
ASI in-line connector	2pole		
Cover	black	25.399.9853.0	100
Cover	yellow	25.399.9853.8	100
Cover	red	25.399.9853.5	100
(color o	of plug housing: gray)		
Marking tag	green	04.240.0953.0	100



Cables with PVE- and PE-insulated wires can be connected. For others consult factory. The fine stranded copper conductor must have a minimum wire diameter of 0.2 mm. The wire design is based on DIN VDE 0295.

Insulated header for PC boards

Spacing: 5.00/5.08 mm

Rated current:

12 A

250 V/4 kV/3 – Overvoltage category III 400 V/4 kV/2 – Overvoltage category II 1000 V/4 kV/1 – Overvoltage category I





Solder pin 1.0 x 1.0 mm Bore hole Ø 1.4 mm

Typ 8113 S/... G, 8213 S/... G

Rated voltages VDE 0110 UL ratings CSA ratings

 plug-in vertical to PC board

 No. 22 – 12 AWG
 250 V
 15 A

 No. 22 – 12 AWG
 300 V
 15 A

Approvals					91 (g (a) (g)	300 V	15 A
	Std. pack	G	T	Pole	Part no.		
Spacing: 5.0	00 mm				unmarked		
	100	11.40	5	2	25.330.3253.0		
Spacing: 5.0)8 mm				unmarked		
	100	11.56	5.08	2	25.350.3253.0		

ASI in-line connector in insulation displacement technology

The ASI connector was developed for both ASI bus systems and LON and EIBA systems. In these systems, auxiliary supply and information are transferred via two wires of the bus line. The ASI in-line connector, a pluggable PC board connector with insulation displacement technology (IDC), facilitates the required signal tap-off from the actuator or sensor. Wiring of the ASI connector is both easy and effective. Both wires are inserted in the open clamping body of the connector and afterwards the cover is pressed on by means of a vertical closing tool. Connection to the printed circuit board is made by plugging it on to a 2 pole header.

Note:

Instead of the special ASI cable, much less expensive standard conductors are used.

Material:

Insulating housing: PA 66/6 CI-index: ≥ 600 Flammability class UL 94-V-0

Contact parts:

Plating: special copper alloy

Assembly:

Special tools for high-volume assembly upon request.

Marking accessories



Material: Polyamide 66/6 Color: black numbers on white background







Marking	stri	р
Spacing:	10	mm

Marking tag 3-digit

Single tag

Marking strip Spacing: 10 mm

						- p				
Туре	Part no. Std.	. pack	Туре	Part no.	Std. pack	Туре	Part no. Std. pack			
for 5 connectors,	marked (every 2nd	d tag)	unmarked			unmarked				
9705 A/5/10/5 B	04.842.5553.0	25	9705 A	04.242.0850	0.0 500	9705 A/5/10	04.242.5053.0 25			
			marked*			marked*				
						9705 A/5/10 B	04.842.5053.0 25			
			9705 AB	04.842.0850	0.0 500	with extended ma	rking surface			
						9705 AL/5/10	04.242.5153.0 25			
			* Please indicate the together with the		king	* Please indicate the required marking together with the part number!				
			Standard pack = 50	0 tags		Standard pack = 25 strips = 250 tags				
Marking tag carrier for WEB empty housing			Marking tag 8 digits Single tag			Marking strip Spacing: 5 mm				
	04.242.1050.0	200	9705 AL	04.242.1553	3.0 500	9705 A/5/9 B	04.842.4953.0 25			
			marked* 9705 ALB	04.842.1553	3.0 500					
				* Please indicate the required marking together with the part number!			Marking of the strips: 1 9 1 9			
			Standard pack = 50	0 tags		Standard pack = 25 strips = 225 tags				

Tear-off marking strip with 10 marking tags

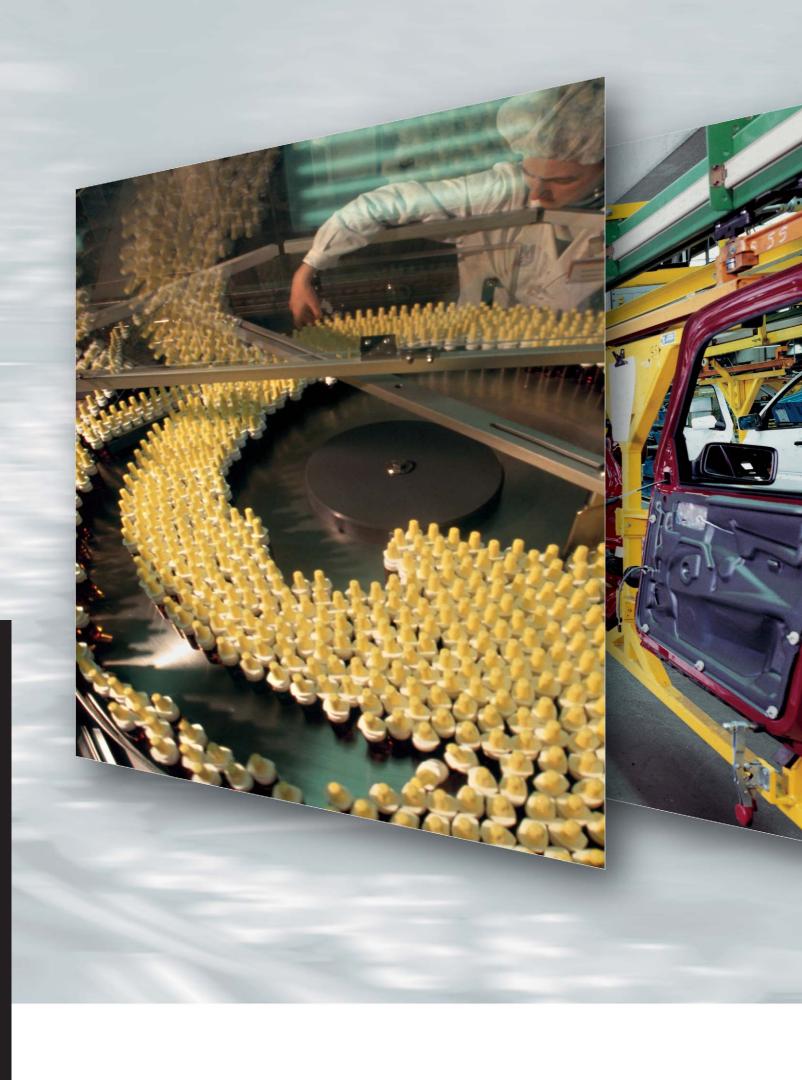








Material: Polyamide 6/66 white/marking black	Marking per tree	Type Part no. Std. pack
unmarked marked with the same number	1 1 1 1 1 1 1 1 1 1	9704 A/1 B 04.241.1150.0 25 9704 A/1 B 04.841.1150.0 25
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9704 A/2 B 04.841.1250.0 25 9704 A/3 B 04.841.1350.0 25 9704 A/4 B 04.841.1450.0 25 9704 A/5 B 04.841.1550.0 25 9704 A/6 B 04.841.1650.0 25 9704 A/7 B 04.841.1750.0 25
	8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0 0	9704 A/8 B 04.841.1850.0 25 9704 A/9 B 04.841.1950.0 25 9704 A/0 B 04.841.2050.0 25
marked with consecutive numbers	1 2 3 4 5 6 7 8 9 0	9704 A/1-0 B 04.841.2150.0 25
marked with the same capital letters	A A A A A A A A A A A A A A A A A B	9704 A/AG B 9704 A/AG B 9704 A/BG B 9704 A/CG B
marked with the same symbols	a a a a a a a a a a a a a a a a a a a	9704 A/BK B 9704 A/CK B 9704 A/DK B 9704 A/EK B 9704 A/EK B 9704 A/FK B 9704 A/HK B 9704 A/MK B 9704 A/B B 97
·		9704 A/- B 04.841.7550.0 25 9704 A// B 04.841.7650.0 25 9704 A/. B 04.841.7750.0 25
1 set of the same numbers = 10×25 strips = 2500 numbers 1 set of cap. letters = 26×25 strips = 6500 letters 1 set of lower case letters = 26×25 strips = 6500 letters	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	111 to 000





Decentralised I/O module	ricos	
Relay module Terminal relay 6,2 mm Time relay	flare WEG RAB WR WRS flare WRS	
Solid state relays	flare WRS M-PB	
Analog measurement technology Signal Conditioners Wieland Analog Systems	dipos cores AKB AKT UET UET-P KSQ / dipos KSQ	
Wieland power Supply Switched mode power supply units	wipos WPS NTU BGL FSR	
Wieland function module	cemos TMS LPB / SBS SSM DNU / DSU DRA	
Wieland interface system	D-SUB FLK S5	
Electronic empty housing	dipos WEB WEB 1001/1002 WEG wieBOX Subject to change without prior notice	

398 Subject to change without prior notice

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• dipos	Introduction to analog measurement technology RTD/Pt100 / TC	Page 496 Page 498
• cores • AKB • AKT • UET • UET-P • KSQ / dipos KSQ	General data Instrument amplifier for RTD/Pt100 Analog conversion module Analog isolating module Isolating trip amplifier Isolating trip amplifier, isolated Constant voltage source General data	Page 501 Page 502 Page 504 Page 505 Page 506 Page 507 Page 508 Page 510
• wipos • WPS • NTU • BGL • FSR	Introduction to <i>wipos</i> switch mode power supply units Single phase/three phase switched mode Power supply 24 V / 0,3–1 A Universal power transformer Rectifier module Fixed voltage regular General data	Page 516 Page 518 Page 524 Page 525 Page 526 Page 528 Page 530
• cemos • TMS • LPB / SBS • SSM • DNU / DSU • DRA	Introduction to <i>cemos</i> /thermal overload/system monitoring Electronic contactors Thermistor overload relay Lamp test module/fuse module Centralised fault indication Three phase system monitoring / fuse monitoring Rotation indicator General data	Page 536 Page 537 Page 539 Page 540 Page 541 Page 542 Page 543 Page 544
• ssw	Introduction to SSW interface convertor Interface converter General data	Page 552 Page 553 Page 555
• D-SUB • FLK • S5	Introduction to interface modules D-SUB on screw terminal IDC header on screw terminal Interface modules and I/O plug system for Siemens S5 General data	Page 559 Page 560 Page 561 Page 562 Page 570
dipos WEB WEB 1001/1002 WEG wieBOX Electronic empty house	Introduction to empty housing systems sing General data	Page 578 Page 580 Page 584 Page 588 Page 592 Page 594 Page 596 Page 600

Subject to change without prior notice 399

Decentralised I/O Modules

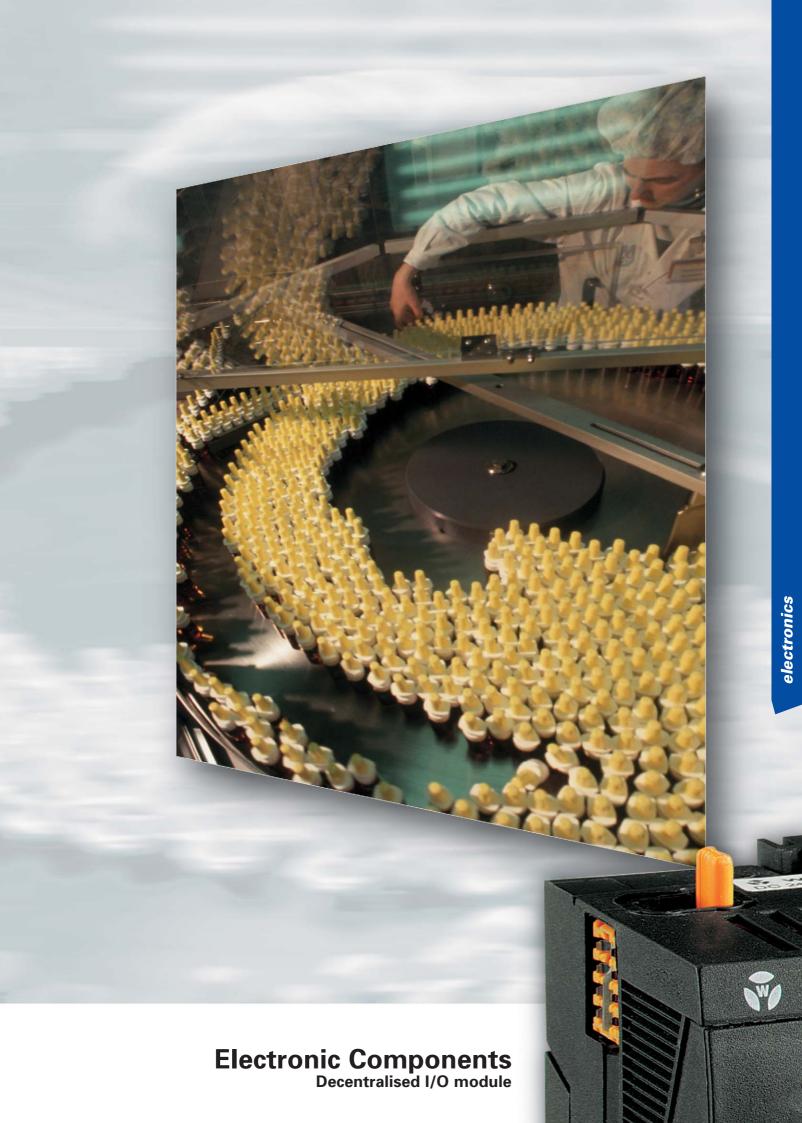
ricos

Introduction to field bus systems
Field bus couplers
Digital I/O's
Function modules
Analogue I/O's
Compact module
General data

ricos offers

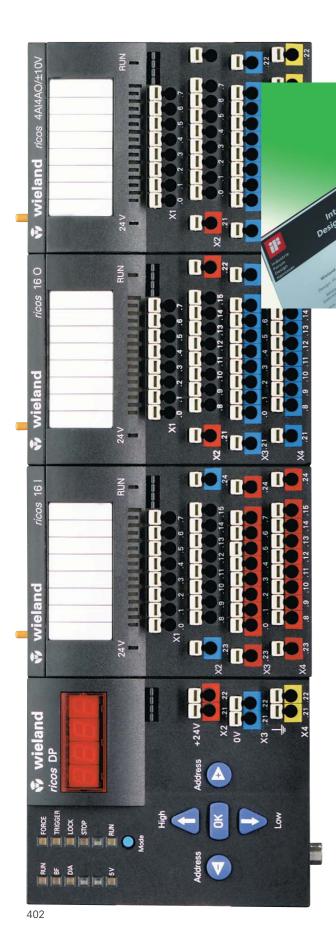
- Field bus couplers for all major field bus systems
- Freely configurable modules for digital/analogue systems
- Modular assembly of field bus nodes
- Spring-clamp terminal for secure and rapid connection
- Economy bus couplers
- Components can be replaced without disconnecting the wiring
- High degree of EMC resistance due to integrated earth connection to the mounting rail
- Compact housing dimensions
- Universal labelling

All Wieland Components which require CE general certification are CE certified, and identified with the CE logo.



Living with the variety and competition of the fieldbus systems





One of the remarkable features of a fieldbus system is its higher performance levels as compared to traditional wiring technology. A key advantage of fieldbus technology is that signal processing is possible in field devices, allowing intelligence to be distributed into the field.

A great number of functional and topological variations are available in today's market. This wide variety of hardware and protocols has formed due to the many different application requirements, company preferences, and the regulatory environment.

Wieland, as a globally active company, meets all fieldbus requirements and – with the **ricos** system – offers the user a universal system:

- ☐ Fieldbus couplers for all major fieldbus systems
- ☐ Freely configurable modules for binary and analog signals
- ☐ Modular-type combined fieldbus nodes
- ☐ The diagnosis tools integrated into the buscoupler provide start-up functions such as Force, Trigger and Lock without requiring further software
- ☐ Complete range of functionalities
- ☐ Spring cage clamp terminals for fast and safe connections
- Economy buscoupler to operate all functionalities
- ☐ Replacing function cards without disconnecting the wires
- ☐ High EMI resistance due to integrated diversion to the mounting rail
- □ Compact housing dimensions
- □ Consistent marking

ricos in use at Winkler+Dünnebier

ricos



Heathrow airport: territory as most manufactures of this ricos insures proper luggage routing type product had traditionally built all of their own machinery. The way they were able to change this custom and gain their

which has convinced our customers to use the **ricos** system. One such customer, Winkler+Dünnebier, manufactures special machinery for the production of envelopes and hygiene items. The company is the international market leader in these sectors. In paper manufacturing alone their marketshare is approximately two thirds of the global market. When developing their "hygiene" business division W+D were in unknown

A key feature of the **ricos** remote I/O

system, as well as the advanced

reliability and resulting safety record

system is its high level of reliability. This

reliability level is the result of the quality

of the electronic components used in the

techniques used during the manufacturing process. It is the combination of this

modules is a better fit than the slice design. Since the exact number of inputs and outputs cannot be planned in advance it is necessary to plan on reserve channels. For this reason, **ricos** modules were of great interest, as its channels can be used both as inputs and outputs. The decisive factor for choosing the ricos system was its clear and easy to use wiring system.



Saving space and costs in paper manufacturing



Getting fit with **ricos** - fast and safe

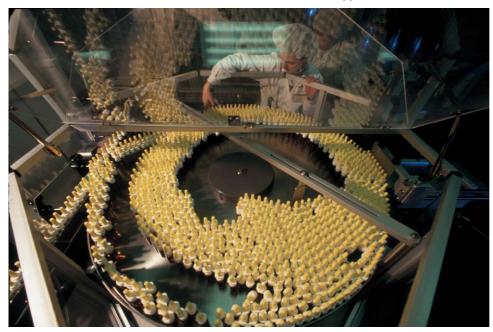
international leadership position was through the revolutionary way they built their machines. W+D decided to produce the machines for their hygiene division using a modular concept. This design allowed for a high degree of flexibility and individual end product options.

During one machine development project, W+D was searching for a distributed connection of actuator and sensor technology via PROFIBUS. Using this system they wanted to bring their modular concepts to cover not only the mechanical aspects, but also the control technology of their machines. After comparing all available I/O systems, wieland's **ricos** system was chosen for use in the hygienes division. For a manufacturer of special purpose machines the block design of the ricos

Technical information on bus systems ricos



PROFIBUS DP (distributed I/Os), defined in DIN 19 245, part 3, and integrated in the European field bus standard EN 20 170, is a PROFIBUS variant with an optimized transmission rate to serve the needs of the object-oriented system sector and the sensor-actuator sector. It is designed to fit the requirements of the fast, efficient data exchange between the automation devices and the distributed devices such as binary or analog input/output modules and drives in timesensitive applications,



while the layer 7 service is not used. This shift of PROFIBUS DP into the field level enables cost savings in cabling. The field bus PROFIBUS DP is not new, but uses well-proven characteristics of the PROFIBUS transmission technology and the bus access protocol (DIN 19245, part 1 and 2). It is reduced vy certain functions in order to meet the high requirements of the system responsetime in the field of distributed I/O devices.

It is also possible to operate PROFIBUS FMS and PROFIBUS DP in one single cable. And there are especially interesting options when using so-called combination devices which use the characteristics of both variants.

The remarkable features of PROFIBUS DP are:

☐ Short response times

☐ High immunity

☐ Replaces the cost-intensive measured value transmission by a 0(4) to 20mA technology

Data transfer via distributed devices (slaves) is mainly done cyclically in the master-slave procedure. The central control system (master) reads the input information of the slaves and writes the output data to the slaves. PROFIBUS DP V1 also supports, among others the acyclic data interchange PROFIBUS DP operates with a transmission rate of up to 12 Mbits/s and enables the transmission of 1024 bit input/output data distributed among 32 nodes in less than 2 ms.

Characteristics:

- ☐ Line structure (with passive bus coupling)
- Max. length of 9.6 km in an electrical installation; up to 90 km in an optical one
- ☐ Area-covering networking by subdividing the system in 5 bus segments (via repeater) of up to 1.5 Mbit/s
- ☐ Number of the repeaters used and therefore the transmission distance depending on the baud rate
- ☐ Max. 124 nodes (throughout all bus segments), max. 32 nodes per segment
- ☐ Bus access in the token passing procedure; normal operation only with a master and polling request
- High transmission rate (real-time capability of PLCs is the major motive for DP)
- ☐ Data transmission via two-wire cable or optical fibre (active bus coupling)
- ☐ Electrical installation with screened, twisted-pair cable and RS485 interface
- ☐ Bit coding in NRZ code (non return to zero)
- □ I/O and field devices can be coupled and uncoupled during operation
- □ Extensive disgnostic options
- ☐ Open system (DIN E 19 245; EN 50

ricos OS



The INTERBUS system was developed especially for machine system applications and fast processes.

This fieldbus system is therefore mainly used in automated manufacturing on system level, and as object-oriented fieldbus used to connect sensors and actuators. Standard PLC applications and industrial PC applications are possible with a minimum of costs and effort [Phoe97] [BaMü98].



The INTERBUS is set up from point-to-point connections as actively coupled ring. The bus nodes use separate lines each in both directions. This avoids a return from the last to the first node as usually required in ring-connected systems. The forward and return lines are both carried in one cable. This makes the INTERBUS resemble a public service bus in terms of installation, as only one cable is drawn from node to node. A complete bus system is thus implemented with different bus nodes, called interface module, bus coupler, bus network devices and local bus devices.

An interface module (master) operates as central unit for data communication in the bus network. The interface module also connects the INTERBUS system with the higher-level control system. The remote bus network can be set up with max. 512 stations and max. 400 m distance

between 2 nodes with a data transmission rate of 500 kbit/s. The RS485 standard is used for data transmission on a two-wire line. The remote bus nodes are all equipped with a separate auxiliary power supply and function as repeaters due to their active couplings, thus enabling long distances. They are furthermore electrically isolated from the advancing INTERBUS segment. Remote bus nodes are both input/output devices and couplers of lower-level sub-rings. There are also mixed versions, the so-called I/O bus couplers.

As INTERBUS does not define any addresses for the nodes in the protocol, the max. number of bus nodes is determined by the master firmware. Implemented firmware allows up to 512 remote bus network nodes. In theory, a distance of 102 km is therefore possible for an INTERBUS system using copper wires. However, a max. system expansion of 13 km is currently guaranteed only. Longer distances can be achieved by using other transfer media such as fiber optic cables which currently allow total expansions of 100 km.

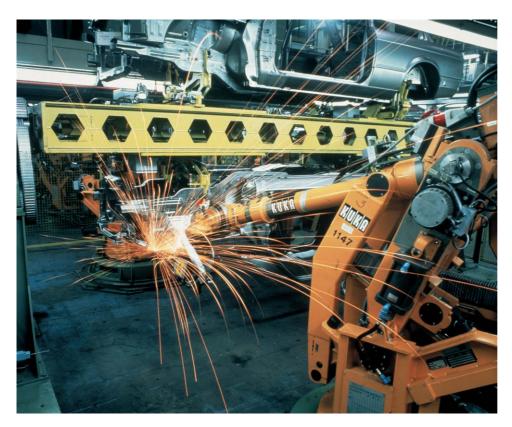
Characteristics:

- ☐ Ring-type structure with active node coupling
- Bus network with max. 512 nodes, max. distance of 400 m, max. total expansion of 13 km with copper cables, and 100 km with fiber optic cable
- ☐ Local bus with 8 nodes, max. distance of 1.5 m, max. total expansion of 10 m
- ☐ Node addressing according to their order assignment in the ring
- ☐ Transmission rate: Bus network with 500 kbit/s, local bus with 300 kbit/s
- ☐ Bus network using an interface based on RS485 two-wire technology
- ☐ Local bus using CMOS level, and 4 wire pairs for transmission
- ☐ Possible degree of protection up to IP 65
- ☐ High data security; several protection mechanisms (such as CRC)
- ☐ Open system (DIN E 19 258; EN 50 254)

Technical information on bus systems revos BASIC



In 1983 the automotive industry phrased their demand for a bus system to be used in motor vehicles. An electrical two-wire bus was to replace the extensive cable harnesses used to connect electrical systems. This was absolutely necessary, as the classical cable harnesses in motor vehicles had already reached lengths of more than 2 km and a weight over 100 kg. Requirements came up that could not be met by the bus systems available at that time.



The major requirements:

- ☐ High protection against electromagnetic interference
- Real-time capability for fast procedures such as ignition and ABS
- ☐ High reliability
- ☐ Favorable price for large batch applications

In 1985 the solution in form of the Controller Area Network (CAN) was presented. CAN was developed in a cooperation between Robert Bosch GmbH and INTEL Semiconductor. In the meantime, CAN has gained a wide field of applications, not only in the motor vehicle technology, but also in the automation technology. Nowadays we find CAN in mobile systems, as machine-internal or system-internal communication system, in production automation, in the bottom field segment of process automation, even in building instrumentation and control, and in many other applications.

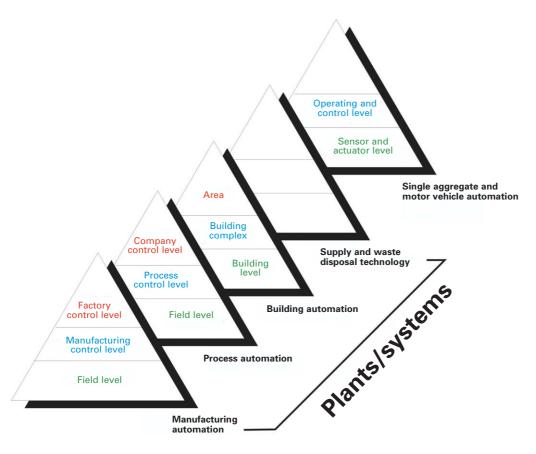
Since 1992 the user organization CiA (CAN in automation) has existed. More than 200 manufacturers and users of automation devices, sensors, actuators, software and services are participating in it [Trum95]. CAN is internationally standardized in ISO 11898 and is therefore an open bus system.

The reason for the widespread acceptance of CAN lies not only in the mentioned performance features, but especially also in the availability of very low-cost circuits due to the high quantities guaranteed in the automotive industry [Law2/97]. Characteristics:

- ☐ Line structure (with passive bus coupling)
- ☐ Number of nodes limited by the performance of the driver modules only
- ☐ Expansion depending on the transmission rate 40 m at 1 Mbit/s; 1000 m at 50 kbit/s
- ☐ Twisted-pair cables with terminating resistors and optical fibre
- Object-oriented messages, broadcasting and multicasting with acceptance check
- ☐ Multi-master network
- ☐ Bus access via bit-by-bit arbitration according to the CSMA/CA procedure; real-time capable for high-priority messages
- ☐ Max. transmission rate of 1 Mbit/s
- □ Very high data security (HD = 6); error detection and error signaling; automatic power-off of defect stations (node guarding)
- ☐ Different chips and micro-controllers support the protocol
- ☐ Open system (ISO 11898 and CiA DS 301)

Preferred areas of application

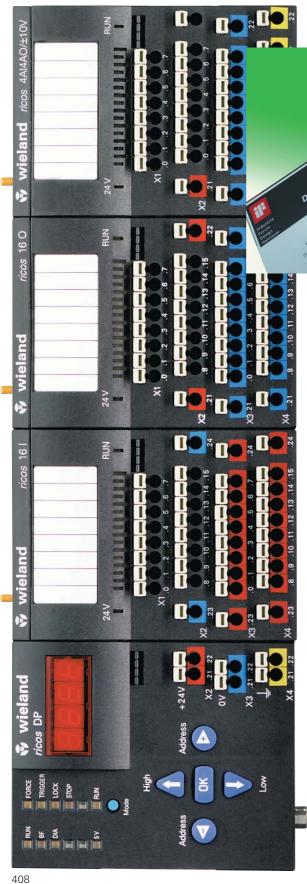


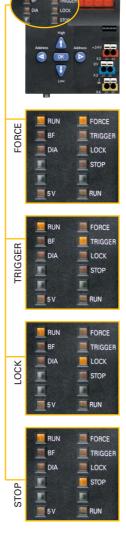


	Plant – (System) Automation				Stand-alone	automation	
Communication levels	Production (solid goods)	Process (gas, fluid, steam)	Building	Supply and waste disposal	Environment monitoring	Machines devices aggregates	vehicles, means of transport
WAN Wide Area Network		high-speed (glass fibre (FDDI), Inte	ernet (www)			
LAN Local Area Network			Industry-Ethernet				
	MMS-Companion Standard: Robot, NC, PLC	MMS-Companion Standard: Process, Control					
FAN (Field bus)– system level	PROFIBUS (FMS) FP INTERBUS MODBUS FF (IEC NORM)	PROFIBUS (FMS) FP P-NET ARCNET FF (IEC NORM)	PROFIBUS (FMS) LON	PROFIBUS (FMS) DIN MESSBUS	PROFIBUS (FMS) DIN MESSBUS		
Object-oriented system level	PROFIBUS (DP) INTERBUS CAN SERCOS	PROFIBUS (DP) HART (BUS) BITBUS CAN	LON EIB CAN	DIN MESSBUS	DIN MESSBUS	PROFIBUS (DP) INTERBUS SERCOS	CAN P NET
Sensor/actuator– system level	AS-INTERFACE INTERBUS-LOOS	HART (PKT/PKT) PROFIBUS PA	EIB M-BUS Ebus	DIN MESSBUS M-BUS	DIN MESSBUS	AS-INTERFACE INTERBUS-LOOS M-BUS Ebus	

Operating and display functions







With or without a fieldbus being connected (offline), binary and analog I/O channels can be operated manually.

→ in the FORCE mode

The last 20 process images of the node can be recorded and displayed

→ in the TRIGGER mode

Analog and binary I/O channels can be freely chosen and "frozen" to a defined switching status in order to simulate certain elements of the system.

→ in the LOCK mode

The outputs are switched off and the inputs are faded out.

→ STOP mode.

Economy buscoupler compact modules

ricos OS







Would you like to ...

- □ ...use more than one fieldbus?
- □ ...reduce your start-up times?
- ...simulate signals offline on site without programming unit?
- ...set I/Os without PLC?
- ...read analog values on site?
- ☐ Start-up without field bus connection
- □ Troubleshooting on site
- ☐ Displaying signal states of all inputs and outputs for binary and analog values
- ...then use the **ricos** bus coupler with operating and display functionality!

The **ricos** buscoupler provides you with:

- Connection to the most common fieldbus systems such as PROFIBUS DP, Interbus, CANopen and DeviceNet
- Modules for fast mounting to DIN rails or panel mount
- □ Wiring with spring connectors
- ☐ Supplied with open clamping body
- ☐ Module wiring at the front
- Pluggable potential distributors on the module
- □ Compact module dimensions
- Up to 8 modules can be connected to a bus coupler in line, enabling up to 128 I/O signals per bus node
- ☐ Electronics can be replaced without disconnecting the wiring

If you do not require the operating and display functionality of the standard **ricos** buscoupler ...

...then we recommend our **ricos** economy buscoupler.

If your control requirements are more complex ...

... then we can offer you our **ricos** compact modules.

ricos compact modules

- 4 compact module types each used for digital signal sensing in the fieldbus systems:
- □ PROFIBUS DP
 - □ Interbus
 - □ CANopen
 - □ DeviceNet
- ☐ All modules are slaves with buscoupler functionality
- ☐ Efficient and space-saving extension for only a few I/Os

Buscoupler Cos



Depth: 51 mm (incl. mounting rail TS 35/7.5 mm)

Dimensions (mm): W x H x D $74 \times 92 \times 51$



Modular buscoupler PROFIBUS DP

C €; Approvals: ﷺ, Profibus certification



Modular bus coupler Interbus

C €; Approvals: ເຟັນs, Interbus certification

Description	Туре	Part no. Std. pack		Type	Part no. Std	. pack	
Buscoupler with diagnosis function	BC DP	83.030.0000.1 1		BC S	83.031.0000.1	1	
	Mode display:	Mode display:			Mode display:		
	FORCE mode: LED	yellow		FORCE mode: LED yello	w		
	TRIGGER mode: LE	D yellow		TRIGGER mode: LED ye	llow		
	LOCK mode: LED y	ellow		LOCK mode: LED yellow	/		
	STOP mode: LED ye	ellow		STOP mode: LED yellow	,		
	RUN mode: LED gre	een		RUN mode: LED green			
Wiring diagrams, derating curves	see page 430			see page 430			
System data							
Max. number of nodes	126			256			
Transmission medium	screened copper ca	ble 2 x 0.25 mm²/AWG 23		screened copper cable 5	x 0.25 mm ² /AWG 23		
Max. network expansion	100 m-1200 m (deg	pending on baud rate/cable)		400 m (remote bus)			
Baud rate	9.6 kBaud12 Mba			500 kBaud			
Internal bus refresh	2 ms			2 ms			
Bus connection		ned female connector		2 x D-SUB 9, screened for	emale and male conne	ectors	
Technical information				.,			
Max. number of I/O bytes	64 E-Byte/64 A-Byte)		64 E-Byte/64 A-Byte			
Number of I/O modules per node	8			8			
Number of digital I/O points per node	128			128			
Number of analog I/O points per node	32			32			
Address setting	3126 (via keyboard	4)		automatically as per syst	em		
Stet	PC or PLC	ω ₁		PC or PLC			
Operating voltage		ax. 5% residual ripple		24 V DC, ±20 %, max. 5 % residual ripple			
Current input		and without I/O modules)		< 125 mA (at 24 V and without I/O modules)			
Current input	< 500 mA (at 24 V v			< 500 mA (at 24 V with I/O modules)			
Insulation voltage	350 V AC, 50 Hz (sy						
Creepage distances and clearances	DIN EN 61131-2; DI			350 V AC, 50 Hz (system / supply) DIN EN 61131-2; DIN EN 50178			
Electrostatic discharge	EN 61000-4-2; 8 KV			EN 61000-4-2; 8 KV air; 4 KV contact			
Electromagnetic fields	ENV 50140; 10 V/m			ENV 50140; 10 V/m; 301000 MHz			
-		5011, limit value class A, group 1		EN 61000-6-2/EN 55011, limit value class A, group 1			
Immunity / emitted interference Burst	2 kV accord. to DIN			2 kV accord. to DIN EN 61000-4-4			
		EN 01000-4-4					
Connection style Cross-sectional area- fine stranded / solid	spring connection 26 –14 AWG / 26 –1	IC AVAIC		spring connection			
				26 –14 AWG / 26 –16 AWG			
Ambient temperature	0 °C+55 °C (accor			0 °C+55 °C (accord. to			
Storage temperature	-25 °C+75 °C (ac	· · · · · · · · · · · · · · · · · · ·	51.11	-25 °C+75 °C (accord.			
Bus-specific status display	RUN	LED green	RUN	RUN	LED green	RU	
	bus error	LED red	BF	remote bus disabled	LED red	R	
	diagnosis	LED red	DIA	remote bus connected	LED green	R	
	operating voltage	LED green	5 V	bus access	LED green	В	
				operating voltage	LED green	5	
Accessories		,		00.004.0045.5."			
Bus connector, vertical	83.030.0010.0 (node	*		83.031.0010.0 (input line	*		
Bus connector, vertical	83.030.0011.0 (term			83.031.0010.0 (output lin	ne)		
Bus connector, horizontal (pending)	83.030.0012.0 (swit	cn)		05.591.3389.0			
Manual, German		05.591.3389.0					
Manual, English		05.562.1389.0					
GSD file and Word template for labels	05.591.3255.0			05.591.3255.0			
Marking tag, 8-digit, unmarked	04.242.1553.0			04.242.1553.0			
Marking tag, 8-digit, marked (upon request)							
End clamp for DIN rail	Z5.522.8553.0			Z5.522.8553.0			

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ricos

Dimensions (mm): W x H x D

74 x 92 x 51



Modular buscoupler DeviceNet

(€; Approvals: ເພີ່ມຮ



Modular buscoupler CANopen

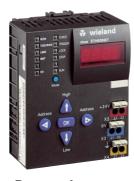
C €; Approvals: ເພື່⊌s in preparation

Description	Type	Part no. Std. pack		Type	Part no. Std. pack		
Buscoupler with diagnosis function	BC-DEVICENET	83.032.0000.1 1		BC-CANOPEN	83.033.0000.1 1		
Mode display:	incl. 1 busconnector	incl. 1 busconnector			incl. 1 busconnector		
	FORCE mode: LED yel	low		FORCE mode: LED yellow			
	TRIGGER mode: LED y	rellow		TRIGGER mode: LED	yellow		
	LOCK mode: LED yello	W		LOCK mode: LED ye	llow		
	STOP mode: LED yello	W		STOP mode: LED ye	llow		
	RUN mode: LED green			RUN mode: LED gree	en		
Wiring diagrams, derating curves	see page 430			see page 430			
System data							
Max. number of nodes	64 with repeater			256			
Transmission medium	screened copper cable	trunk line AWG 15, 18		screened copper cab	le 3 x 0.25 mm²/AWG 23		
	screened copper cable	drop line AWG 22, 24					
Max. network expansion	100 m-500 m (depend	ling on baud rate / cable)		100 m-500 m (depe	nding on baud rate / cable)		
Baud rate	125/250/500 kBaud (se	tting via keyboard)		10 kBaud1 MBaud	(setting via keyboard)		
Internal bus refresh	2 ms			2 ms			
Bus connection	5pole connector, screw	V		5pole connector, scre	ew		
Technical information							
Max. number of I/O bytes	64 E-Byte/64 A-Byte			9 R-PDOs; 9 T-PDOs			
Number of I/O modules per node	8			6			
Number of digital I/O points per node	128			96			
Number of analog I/O points per node	32			24			
Address setting (MAC ID)	163 (via keyboard)			1126 (via keyboard)			
Stet	PC or PLC			PC or PLC			
Operating voltage	24 V DC, ±20 %, max.	5 % residual ripple		24 V DC, ±20%, max. 5% residual ripple			
Current input	< 125 mA (at 24 V and			< 125 mA (at 24 V and without I/O modules)			
Current input	< 500 mA (at 24 V with			< 500 mA (at 24 V w			
Insulation voltage	350 V AC, 50 Hz (syste			350 V AC, 50 Hz (system / supply)			
Creepage distances and clearances	DIN EN 61131-2; DIN E			DIN EN 61131-2; DIN EN 50178			
Electrostatic discharge	EN 61000-4-2; 8 KV air;			EN 61000-4-2; 8 KV air; 4 KV contact			
Electromagnetic fields	ENV 50140; 10 V/m; 30			ENV 50140; 10 V/m; 301000 MHz			
Immunity / emitted interference		1, limit value class A, group 1		EN 61000-6-2/EN 55011, limit value class A, group 1			
Burst	2 kV accord, to DIN EN			2 kV accord. to DIN EN 61000-4-4			
Connection style	spring connection	101000-4-4		spring connection			
Cross-sectional area-fine stranded / solid	26 - 14 AWG / 26 - 1	6 V/V/C		26 – 14 AWG / 26 – 16 AWG			
Ambient temperature	0 °C+ 55 °C (accord.			0 °C+55 °C (accord			
Storage temperature	-25 °C+75 °C (accord			-25 °C+ 75 °C (accord			
Bus-specific status display	RUN	LED green	RUN	RUN	LED green	RU	
Bus-specific status display	status to master	LED green/red	NET	network status	LED green/red	NE	
	ready for operation	LED green/red	MOD	module status	LED green/red	MO	
		LED green	5 V		LED green	5	
Accessories	operating voltage	LLD GIEEH	3 V	operating voltage	LED GLEGH	5	
Bus connector	25.323.3501.0			25.323.3501.0			
Manual, German	05.591.3389.0			05.591.3389.0			
Manual, English	05.562.1389.0			05.562.1389.0			
EDS file and Word template for labels				05.591.3255.0			
	05.591.3255.0	05.591.3255.0					
Marking tag, 8-digit, unmarked	U4.242.1553.U			04.242.1553.0			
Marking tag, 8-digit, marked (upon request) End clamp for DIN rail	Z5.522.8553.0		I	Z5.522.8553.0			

Specifications are subject to change without notice

Ethernet Buscoupler Module





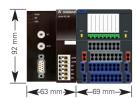
Dimensions (mm): W x H x D 74 x 92 x 51 (incl. mounting rail TS 35; DIN EN 60715)

Modular Buscoupler Ethernet TCP/IP (; Approvals: CE, cUL_{us} pending

ncl. mounting rail TS 35; DIN EN 60715)	← ; Approvals: CE, cUL _{us} pending		
Description	Type Part no. Std. pack	Type	Part no. Std. pack
Buscoupler with diagnostic features	BC-Ethernet 83.034.0000.1 1		
Mode display:			
	FORCE mode: LED yellow		
	TRIGGER mode: LED yellow		
	LOCK mode: LED yellow		
	STOP mode: LED yellow		
	RUN mode: LED green		
System Data			
Max. number of nodes	limited by Ethernet specifications		
Transmission medium	CAT5 twisted pair 10/100 base T		
Protocols	MODBUS/TCP. HTTP, Boot-P		
Baud rate	10/100 Mbit/Autodetection		
Internal Bus Refresh	2 ms		
Bus connection	RJ 45		
Technical Information			
Max. number of I/O Bytes	64 E-Byte/64 A-Byte		
Max. number of I/O modules per node	8		
Max. number of digital I/O points per node	128		
Max. number of analog I/O points per node	32		
Address setting	keypad & Boot P		
Configuration	PC/PLC		
Power Input	24 V DC ±20%, max 5% residual ripple		
Power Consumption	<3.5 W (without I/O module)		
Isolation voltage	350 V AC, 50 Hz (system/supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 30 1000 MHz		
Immunity/emittedinterference	EN 50082-2/EN 55011, limit value class A, group 1		
Burst	2 kV accord. to DIN EN 61000-4-4		
Connection Style	spring connection		
Cross-section area fine stranded/solid	0.14 – 1.5 mm² / 26-14 AWG / 0,5 – 2,5 mm² / 26-16 AWG		
Ambient temperature	0° C +55° C		
Storage temperature	-25° C +70° C		
Bus-specific status display	RUN LED yellow RUN		
	Operating voltage LED green TxD/RxD		
	Net Available LED green LINK		
	Operating voltage LED yellow 5 V		
	Fieldbus not initiated LED red INIT		
Accessories			
Bus connector, vertical			
Bus connector, vertical			
Bus connector, horizontal (pending)			
Manual, German	05.591.3389.0		
Manual, English	05.562.1389.0		
GSD file and Word template for labels	05.591.3255.0		
Marking tag, 8-digit, unmarked	04.242.1553.0		
Marking tag, 8-digit, marked (upon request)			
End Clamp for DIN rail	Z5.522.8553.0		

ricos

Buscoupler Cos



Depth: 51 mm (incl. mounting rail TS 35/7.5 mm)

Dimensions (mm): W x H x D $63 \times 92 \times 51$



Modular economy buscoupler PROFIBUS DP

 \mathbf{C} **ξ**; Approvals: \mathbf{Q} \mathbf{Q} , Profibus certification in preparation



Modular economy buscoupler Interbus

(ξ; Approvals: <math>**(Φ)**_{us}, Interbus certification in preparation

Description	Type Part no. Std. pack	Type Part no. Std. pack		
Economy buscoupler	EC DP 83.030.0001.1 1	EC S 83.031.0001.1 1		
Mode display	RUN – processor operating LED yellow	RUN – processor operating LED yellow		
	BF - no bus connected (bus fail): LED red	RD - remote bus disabled LED red		
	DIA – diagnosis message sent off: LED red	RC - remote bus connected LED green		
		BA – bus access LED green		
Wiring diagrams, derating curves	see page 430	see page 430		
System data				
Max. number of nodes	126	256		
Transmission medium	screened copper cable 2 x 0.25 mm²/AWG 23	screened copper cable 5 x 0.25 mm²/AWG 23		
Max. network expansion	100 m-1200 m (depending on baud rate / cable)	400 m (remote bus)		
Baud rate	9.6 kBaud12 Mbaud	500 kBaud		
Internal bus refresh	2 ms	2 ms		
Bus connection	1 x D-SUB 9, screened female connector	2 x D-SUB 9, screened female and male connectors		
Technical information				
Max. number of I/O bytes	64 E-Byte/64 A-Byte	64 E-Byte/64 A-Byte		
Number of I/O modules per node	8	8		
Number of digital I/O points per node	128	128		
Number of analog I/O points per node	32	32		
Address setting	3126 (switch)	automatically as per system		
Stet	PC or PLC	PC or PLC		
Operating voltage	24 V DC, ±20 %, max. 5 % residual ripple	24 V DC, ±20 %, max. 5 % residual ripple		
Current input	< 125 mA (at 24 V and without I/O modules)	< 125 mA (at 24 V and without I/O modules)		
	< 500 mA (at 24 V with I/O modules)	< 500 mA (at 24 V with I/O modules)		
Insulation voltage	350 V AC, 50 Hz (system / supply)	350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178	DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact	EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 301000 MHz	ENV 50140; 10 V/m; 301000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1	EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	2 kV accord. to DIN EN 61000-4-4	2 kV accord. to DIN EN 61000-4-4		
Connection style	spring connection	spring connection		
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG	26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C+55 °C (accord. to DIN 40040)	0 °C+ 55 °C (accord. to DIN 40040)		
Storage temperature	-25 °C+75 °C (accord. to DIN 40040)	-25 °C+75 °C (accord. to DIN 40040)		
5 P				
Accessories				
Bus connector, vertical	83.030.0010.0 (node)	83.031.0010.0 (input line)		
Bus connector, vertical	83.030.0011.0 (termination)	83.031.0010.0 (output line)		
Bus connector, horizontal (pending)	83.030.0012.0 (switch)			
Manual, German	05.591.3389.0	05.591.3389.0		
Manual, English	05.562.1389.0	05.562.1389.0		
GSD file and Word template for labels	05.591.3255.0	05.591.3255.0		
Marking tag, 8-digit, unmarked	04.242.1553.0	04.242.1553.0		
Marking tag, 8-digit, marked (upon request)				
End clamp for DIN rail	Z5.522.8553.0	Z5.522.8553.0		

ricos



Modular economy buscoupler DeviceNet

C €; Approvals: c(t) us in preparation



Modular economy buscoupler CANopen

C €; Approvals: c⁽¹⁾us in preparation

Dimensions	(mm):	W	Х	Нх	D
63 x 92 x 51					

Description	Type Part no. Std. pack	Type Part no. Std. pack		
Buscoupler with diagnosis function	EC-DEVICENET 83.032.0001.1 1	EC-CANOPEN 83.033.0001.1 1		
	incl. 1 busconnector	incl. 1 busconnector		
Mode display:	RUN – processor operating LED yellow	RUN – processor operating LED yellow		
	NET - status display to master LED green/red	NET - status display to master LED green/red		
	MOD – ready for operation LED green/red	MOD – ready for operation LED green/red		
Wiring diagrams, derating curves	see page 430	see page 430		
System data				
Max. number of nodes	64 with repeater	256		
Transmission medium	screened copper cable trunk line AWG 15, 18	screened copper cable 3 x 0.25 mm ² /AWG 23		
	screened copper cable drop line AWG 22, 24			
Max. network expansion	100 m-500 m (depending on baud rate / cable)	100 m-500 m (depending on baud rate / cable)		
Baud rate	125/250/500 kBaud (DIP switch)	10 kBaud1 MBaud (DIP switch)		
Internal bus refresh	2 ms	2 ms		
Bus connection	5pole connector, screw	5pole connector, screw		
Technical information				
Max. number of I/O bytes	64 E-Byte/64 A-Byte	9 R-PDOs; 9 T-PDOs		
Number of I/O modules per node	8	6		
Number of digital I/O points per node	128	96		
Number of analog I/O points per node	32	24		
Address setting (MAC ID)	163 (via keyboard)	1126 (via keyboard)		
Stet	PC or PLC	PC or PLC		
Operating voltage	24 V DC, ±20 %, max. 5 % residual ripple	24 V DC, ±20%, max. 5% residual ripple		
Current input	< 125 mA (at 24 V and without I/O modules)	< 125 mA (at 24 V and without I/O modules)		
	< 500 mA (at 24 V with I/O modules)	< 500 mA (at 24 V with I/O modules)		
Insulation voltage	350 V AC, 50 Hz (system / supply)	350 V AC, 50 Hz (system / supply)		
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178	DIN EN 61131-2; DIN EN 50178		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact	EN 61000-4-2; 8 KV air; 4 KV contact		
Electromagnetic fields	ENV 50140; 10 V/m; 301000 MHz	ENV 50140; 10 V/m; 301000 MHz		
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1	EN 61000-6-2/EN 55011, limit value class A, group 1		
Burst	2 kV accord. to DIN EN 61000-4-4	2 kV accord. to DIN EN 61000-4-4		
Connection style	spring connection	spring connection		
Cross-sectional area-fine stranded / solid	26 - 14 AWG / 26 - 16 AWG	26 – 14 AWG / 26 – 16 AWG		
Ambient temperature	0 °C+55 °C (accord. to DIN 40040)	0 °C+55 °C (accord. to DIN 40040)		
Storage temperature	-25 °C+75 °C (accord. to DIN 40040)	-25 °C+75 °C (accord. to DIN 40040)		
Accessories				
Bus connector	25.323.3501.0	25.323.3501.0		
Manual, German	05.591.3389.0	05.591.3389.0		
Manual, English	05.562.1389.0	05.562.1389.0		
EDS file and Word template for labels	05.591.3255.0	05.591.3255.0		
Marking tag, 8-digit, unmarked	04.242.1553.0	04.242.1553.0		
Marking tag, 8-digit, marked (upon request)				
End clamp for DIN rail	Z5.522.8553.0	Z5.522.8553.0		

Specifications are subject to change without notice 415



Binary I/O modules

Configurable as input or output, for 2-wire, 3-wire and 4-wire connections Electronic components can be replaced without disconnecting the wiring



Binary I/O module 24 V DC 8 inputs or 8 outputs C & Approvals: (19) Us



Binary I/O module 24 V DC 16 inputs

(€; Approvals: ເພື່⊍s

Dimensions (mm): W x H x D
69 x 92 x 51

Description	Type Part no. Std. pack	Type Part no. Std. pack
	ricos 8I/O 83.035.3100.1 1	ricos 16l 83.035.3000.1 1
Mode display:		
	24 V – supply voltage connected: LED yellow	24 V – supply voltage connected: LED yellow
	RUN – internal data transmission in progress: LED yellow	RUN – internal data transmission in progress: LED yellow
	channel LED - switching status: LED green	channel LED – switching status: LED green
	channel LED - channel cursor: LED yellow	channel LED - channel cursor: LED yellow
Wiring diagrams, derating curves	see pages 431 - 434	see pages 431 – 434
Module data		
Number of inputs	max. 8	16
Number of outputs	max. 8	0
Operating voltage	24 V DC, ±20 %, max. 5% residual ripple	24 V DC, ±20 %, max. 5 % residual ripple
Power input	< 0.5 W	< 0.5 W
Stet	not required	not required
Required space on control side	1 input byte/1output byte	2 input byte
Input data		
Switching level "0" (EN 61131-2)	-30 V+5 V DC	-30 V+5 V DC
Switching level "1" (EN 61131-2)	+15 V+30 V DC	+15 V+30 V DC
Input current/channel (at 24 V DC)	6.1 mA	4.5 mA
Status display	LED green	LED green
Output data		
Output voltage	operating voltage – 0.5 V DC	
Output current per channel	1000 mA DC	
Max. total current per module	8 A DC	
Simultaneity	100%	
Load types	resistive, inductive	
Status display	LED green	
Output response	resistant to overload and short-circuit	
General	resistant to overload and short-circuit	
Signal delay per I/O channel	< 100 µs	< 100 μs
Max. voltage power contacts	30 V DC	30 V DC
	8 A DC	8 A DC
Max. current power contacts		
Insulation voltage	350 V AC, 50 Hz (system/supply)	350 V AC, 50 Hz (system/supply)
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178	DIN EN 61131-2; DIN EN 50178
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact	EN 61000-4-2; 8 KV air; 4 KV contact
Electromagnetic fields	ENV 50140; 10 V/m; 301000 MHz	ENV 50140; 10 V/m; 301000 MHz
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1	EN 61000-6-2/EN 55011, limit value class A, group 1
Burst	accord. to EN 61000-4-4	accord. to EN 61000-4-4
Connection style	spring connection	spring connection
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG	26 – 14 AWG / 26 – 16 AWG
Ambient temperature	0 °C+55 °C (accord. to DIN 40040)	0 °C+55 °C (accord. to DIN 40040)
Storage temperature	-25 °C+75 °C (accord. to DIN 40040)	-25 °C+75 °C (accord. to DIN 40040)
Accessories		
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1	83.039.0000.1
Adhesive labels, DIN A4 sheet	05.591.3255.0	05.591.3255.0
2pole jumper for parallel output switching	Z7.258.1225.0	Z7.258.1225.0
Marking tag, 8-digit, unmarked	04.242.1553.0	04.242.1553.0
Marking tag, 8-digit, marked (upon request)		
End clamp for DIN rail	Z5.522.8553.0	Z5.522.8553.0
Manual, English	05.562.1389.0	05.562.1389.0

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ricos

Dimensions (mm): W x H x D

Adhesive labels, DIN A4 sheet

Marking tag, 8-digit, unmarked

End clamp for DIN rail

Manual, English

2pole jumper for parallel output switching

Marking tag, 8-digit, marked (upon request)

69 x 92 x 51



Binary I/O module 115 V AC 4 inputs

C €; Approvals: ເພື່⊌s in preparation



Binary I/O module 230 V AC 4 inputs

C €; Approvals: (In preparation

05.591.3255.0

Z7.258.1225.0

04.242.1553.0

Z5.522.8553.0

05.562.1389.0

Description	Туре	Part no. Std. pack	Туре	Part no. Std. pack
	ricos 4l 115 V	83.035.5000.1 1	ricos 4l 230 V	83.035.5005.1 1
Mode display:				
	24 V – supply voltage co	onnected: LED yellow	24 V – supply voltage	connected: LED yellow
	RUN – internal data tran	smission in progress: LED yellow	RUN – internal data t	ransmission in progress: LED yellow
	channel LED – switchin	g status: LED green	Channel LED – switc	hing status: LED green
	channel LED - channel	cursor: LED yellow	Channel LED – chann	nel cursor: LED yellow
Wiring diagrams, derating curves	see pages 431 - 434		see pages 431 – 434	1
Module data				
Number of inputs	4		4	
Number of outputs	0		0	
Operating voltage	115 V AC, ±10 %		230 V AC, ± 10 %	
Power input	< 0.5 W		< 0.5 W	
Stet	not required		not required	
Required space on control side	1 input byte		1 input byte	
Input data				
Switching level "0" (EN 61131-2)	0 V20 V AC		0 V40 V AC	
Switching level "1" (EN 61131-2)	79 V130 V AC		164 V250 V AC	
Input current / channel (at 24 V DC)	typically 5 mA		typically 5 mA	
Status display	LED green		LED green	
Output data:				
Output voltage				
Output current per channel				
Max. total current per module				
Simultaneity				
Load types				
Status display				
Output response				
General				
Signal delay per I/O channel	max. 10 ms		max. 10 ms	
Max. voltage power contacts	250 V AC		250 V AC	
Max. current power contacts	8 A AC		8 A AC	
Insulation voltage	350 V AC, 50 Hz (syster	m / supply)	350 V AC, 50 Hz (sys	tem / supply)
Creepage distances and clearances	DIN EN 61131-2; DIN E	N 50178	DIN EN 61131-2; DIN	I EN 50178
Electrostatic discharge	EN 61000-4-2; 8 KV air;	4 KV contact	EN 61000-4-2; 8 KV a	air; 4 KV contact
Electromagnetic fields	ENV 50140; 10 V/m; 30	1000 MHz	ENV 50140; 10 V/m;	301000 MHz
Immunity / emitted interference	EN 61000-6-2/EN 55011	, limit value class A, group 1	EN 61000-6-2/EN 550	011, limit value class A, group 1
Burst	accord. to EN 61000-4-4	1	accord. to EN 61000-	4-4
Connection style	spring connection		spring connection	
Cross-sectional area-fine stranded / solid	26 - 14 AWG / 26 - 16	3 AWG	26 - 14 AWG / 26 -	16 AWG
Ambient temperature	0 °C+55 °C (accord. to	o DIN 40040)	0 °C+55 °C (accord	I. to DIN 40040)
Storage temperature	-25 °C+75 °C (accord	I. to DIN 40040)	-25 °C+75 °C (acc	ord. to DIN 40040)
Accessories				
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1		83.039.0000.1	

Specifications are subject to change without notice

05.591.3255.0

Z7.258.1225.0

04.242.1553.0

Z5.522.8553.0

05.562.1389.0



Binary I/O modules

for 2-wire, 3-wire and 4-wire connections Electronic components can be replaced without disconnecting the wiring



Binary I/O module, 4 relay outputs (; Approvals: @us in preparation

Dimensions (mm): W x H x D 69 x 92 x 51

9 X 92 X 91	Approvais. Will preparation
Description	Type Part no. Std. pack
	ricos 40 RELAY 83.035.5200.1 1
Mode display:	
	24 V – supply voltage connected: LED yellow
	RUN – internal data transmission in progress: LED yellow
	channel LED - switching status: LED green
	channel LED - channel cursor: LED yellow
Wiring diagrams, derating curves	see pages 431 - 434
Module data	
Number of inputs	0
Number of outputs	4
Operating voltage	24 V DC, ±20 %, max. 5 % residual ripple
Power input	< 1 W
Stet	not required
Required space on control side	1 output byte
Input data	
Switching level "0" (EN 61131-2)	
Switching level "1" (EN 61131-2)	
Input current/channel (at 24 V DC)	
Status display	
Output data:	
Output voltage	250 V AC, 30 V DC
Output current per channel	5 A AC/DC
Max. total current per module	12 A AC/DC
Simultaneity	100 %
Load types	resistive / inductive
Status display	LED green
Output response	ELD green
General	
Signal delay per I/O channel	< 10 ms
Max. voltage power contacts	250 V AC/DC
	8 A AC/DC
Max. current power contacts	
Insulation voltage	350 V AC, 50 Hz (system / supply)
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact
Electromagnetic fields	ENV 50140; 10 V/m; 301000 MHz
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1
Burst	accord. to EN 61000-4-4
Connection style	spring connection
Cross-sectional area-fine stranded / solid	26 - 14 AWG / 26 - 16 AWG
Ambient temperature	0 °C+55 °C (accord. to DIN 40040)
Storage temperature	-25 °C+75 °C (accord. to DIN 40040)
Accessories	
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1
Adhesive labels, DIN A4 sheet	05.591.3255.0
2pole jumper for parallel output switching	Z7.258.1225.0
Marking tag, 8-digit, unmarked	04.242.1553.0
Marking tag, 8-digit, marked (upon request)	
End clamp for DIN rail	Z5.522.8553.0
Manual, English	05.562.1389.0
,	/

ricos

Binary I/O modules

Dimensions (mm): W x H x D

69 x 92 x 51

Configurable as input or output, for 2-wire, 3-wire and 4-wire connections Electronic components can be replaced without disconnecting the wiring



Binary module 16 outputs

(€; Approvals: ເພື່ພs



Binary I/O module 8 inputs and 8 inputs/outputs (; Approvals: (*) us

9 x 92 x 51	CC, Approvai	IS. LEGUS	CC, Approvais	6. (41)05
Description	Туре	Part no. Std. pack	Туре	Part no. Std. pack
	ricos 160	83.035.3200.1 1	ricos 8I 8I/O	83.035.3300.1 1
Mode display:				
	24 V – supply vol	tage connected: LED yellow	24 V – supply volta	age connected: LED yellow
	RUN – internal da	ata transmission in progress: LED yellow	RUN – internal data	a transmission in progress: LED yellow
	channel LED - sv	vitching status: LED green	channel LED – swi	tching status: LED green
	channel LED - ch	nannel cursor: LED yellow	channel LED - cha	innel cursor: LED yellow
Wiring diagrams, derating curves	see pages 431 -	434	see pages 431 - 4	434
Module data				
Number of inputs	0		8 + max. 8	
Number of outputs	16		max. 8	
Operating voltage	24 V DC, ±20 %,	max. 5% residual ripple	24 V DC, ±20%, n	max. 5 % residual ripple
Power input	< 0.5 W		< 0.5 W	
Stet	not required		not required	
Required space on control side	2 output byte		2 input byte and 1	output byte
Input data			ļ,	,
Switching level "0" (EN 61131-2)			-30 V+5 V DC	
Switching level "1" (EN 61131-2)			+15 V+30 V DC	
Input current / channel (at 24 V DC)			4.5 mA/6.5 mA (co	
Status display			LED green	
Output data:			LED groon	
Output voltage	operating voltage	-05VDC	operating voltage -	-0.5 V DC
Output current per channel	1000 mA DC	- 0.3 V DC	1000 mA DC	-0.0 V DC
Max. total current per module	8 A DC		8 A DC	
Simultaneity	50 %		100 %	
·				
Load types	resistive, inductiv	re	resistive, inductive	
Status display	LED green	and and about 200 G	LED green	ad and about the St
Output response General	resistant to overio	oad and short-circuit	resistant to overloa	ad and short-circuit
	100		100	
Signal delay per I/O channel	< 100 µs		< 100 μs	
Max. voltage power contacts	30 V DC		30 V DC	
Max. current power contacts	8 A DC		8 A DC	
Insulation voltage	350 V AC, 50 Hz		350 V AC, 50 Hz (s	
Creepage distances and clearances	DIN EN 61131-2;		DIN EN 61131-2; [
Electrostatic discharge		KV air; 4 KV contact	EN 61000-4-2; 8 K	
Electromagnetic fields		/m; 301000 MHz	ENV 50140; 10 V/r	
Immunity / emitted interference		55011, limit value class A, group 1		55011, limit value class A, group 1
Burst	accord. to EN 610	000-4-4	accord. to EN 6100	00-4-4
Connection style	spring connection		spring connection	
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 2		26 - 14 AWG / 26	
Ambient temperature		cord. to DIN 40040)	0 °C+55 °C (acco	
Storage temperature	−25 °C+75 °C ((accord. to DIN 40040)	−25 °C+75 °C (a	ccord. to DIN 40040)
Accessories				
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1		83.039.0000.1	
Adhesive labels, DIN A4 sheet	05.591.3255.0		05.591.3255.0	
2pole jumper for parallel output switching	Z7.258.1225.0		Z7.258.1225.0	
Marking tag, 8-digit, unmarked	04.242.1553.0		04.242.1553.0	
Marking tag, 8-digit, marked (upon request)				
Marking tag, 8-digit, marked (upon request) End clamp for DIN rail	Z5.522.8553.0		Z5.522.8553.0	

Specifications are subject to change without notice 419



Binary I/O modules

for 2-wire, 3-wire and 4-wire connections Electronic components can be replaced without disconnecting the wiring



Binary I/O module 24 V DC 4 outputs 2 A DC (C; Approvals: c@us in preparation



Binary I/O module 24 V DC 8 outputs, negative switching (; Approvals: © in preparation

Dimensions (mm): W x H x D	
69 x 92 x 51	

Description	Туре	Part no. Std. pack	Type	Part no. Std. pack
	ricos 40 DC 2A	83.035.3005.1 1	ricos 80 NEG	83.035.3210.1 1
Mode display:				
	24 V – supply voltage co	nnected: LED yellow	24 V – supply voltage	e connected: LED yellow
	RUN – internal data tran	smission in progress: LED yellow	RUN – internal data	transmission in progress: LED yellow
	channel LED – switching	g status: LED green	channel LED – switc	hing status: LED green
	channel LED - channel of	cursor: LED yellow	channel LED – chann	nel cursor: LED yellow
Wiring diagrams, derating curves	see pages 431 - 434		see pages 431 - 43	14
Module data				
Number of inputs	0		0	
Number of outputs	4		8	
Operating voltage	24 V DC, ±20 %, max. 5	5% residual ripple	24 V DC, ±20%, ma	ax. 5% residual ripple
Power input	< 0.5 W		< 0.5 W	
Stet	not required		not required	
Required space on control side	1 output byte		1 output byte	
Input data				
Switching level "0" (EN 61131-2)				
Switching level "1" (EN 61131-2)				
Input current / channel (at 24 V DC)				
Status display				
Output data				
-		100		- F.V.D.O.
Output voltage	operating voltage -0.5 V	, DC	operating voltage -0	1.5 V DC
Output current per channel	2 A DC		1000 mA DC	
Max. total current per module	8 A DC		8 A DC	
Simultaneity	100 %		100%	
Load types	resistive, inductive		resistive, inductive	
Status display	LED green		LED green	
Output response	resistant to overload and	d short-circuit	resistant to overload	and short-circuit
General				
Signal delay per I/O channel	< 100 μs		< 100 µs	
Max. voltage power contacts	30 V DC		30 V DC	
Max. current power contacts	8 A DC		8 A DC	
Insulation voltage	350 V AC, 50 Hz (syster	n / supply)	350 V AC, 50 Hz (sys	stem / supply)
Creepage distances and clearances	DIN EN 61131-2; DIN E	N 50178	DIN EN 61131-2; DII	N EN 50178
Electrostatic discharge	EN 61000-4-2; 8 KV air;	4 KV contact	EN 61000-4-2; 8 KV	air; 4 KV contact
Electromagnetic fields	ENV 50140; 10 V/m; 30.	1000 MHz	ENV 50140; 10 V/m;	301000 MHz
Immunity / emitted interference		, limit value class A, group 1		011, limit value class A, group 1
Burst	accord. to EN 61000-4-4		accord. to EN 61000	
Connection style	spring connection		spring connection	
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 /	AWG	26 – 14 AWG / 26 –	16 AWG
Ambient temperature	0 °C+55 °C (accord. to		0 °C+55 °C (accord	
Storage temperature	-25 °C+75 °C (accord		-25 °C+75 °C (accord	
Accessories	20 01 70 0 (accord		20 0170 0 (acc	5.5. to 5.11 40040/
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1		83.039.0000.1	
Adhesive labels, DIN A4 sheet	05.591.3255.0		05.591.3255.0	
	Z7.258.1225.0		77.258.1225.0	
2pole jumper for parallel output switching				
Marking tag, 8-digit, unmarked	04.242.1553.0		04.242.1553.0	
Marking tag, 8-digit, marked (upon request)	75 500 05-5 5		75 506 2552 2	
End clamp for DIN rail	Z5.522.8553.0		Z5.522.8553.0	
Manual, English	05.562.1389.0		05.562.1389.0	



Counter/positioning modules 2 or 4 counters per module up to 2 threshold values can be set

Positioning module for 2 axes Electronic components can be replaced without disconnecting the wiring



Binary I/O module 2–32 bit / 4–16 bit counter (; Approvals: @us in preparation



Binary I/O module, positioning module (¢; Approvals: (®) in preparation

Dimensions (mm): W x H x D	
69 x 92 x 51	

Description	Туре	Part no. Std. pack	Туре	Part no. Std. pack
	ricos COUNTER	83.035.5400.1 1	ricos POSITION	83.035.5410.1 1
Mode display:				
	24 V – supply voltage co	onnected: LED yellow	24 V – supply voltage	connected: LED yellow
	RUN – internal data tran	smission in progress: LED yellow	RUN – internal data ti	ransmission in progress: LED yellow
	channel LED – switchin	g status: LED green	channel LED – switch	ing status: LED green
	channel LED - channel	cursor: LED yellow	channel LED - channel	el cursor: LED yellow
Wiring diagrams, derating curves	see page 434		see page 434	
Module data				
Number of	counters: 4 x 16 Bit or 2	2 x 32 Bit	controllable axes: 2	
Counting range	0 to 2 ¹⁶ or 0 to 2 ³²		-2 ³¹ up to 2 ³¹ -1	
Number of inputs/outputs	12/4 or 6/4		10/6	
Counting frequency	200 Hz, 2 kHz, 20 kHz,	200 kHz configurable	max. 200 kHz	
Configurable	via PC or PLC		via PC or PLC	
Required space on control side	3 to 5 words		5 words	
Input data				
Switching level "0" (EN 61131-2)	-30 V+5 V DC		-30 V+5 V DC	
Switching level "1" (EN 61131-2)	+15 V+30 V DC		+ 15 V+30 V DC	
Input current / channel (at 24 V DC)	7.5 mA		7.5 mA	
Status display	LED green		LED green	
Output data:	225 groon		ELB groom	
Output voltage	operating voltage -0.5 \	/ DC	operating voltage -0.	5 V DC
Output current per channel	1000 mA DC	. 20	1000 mA DC	0 1 20
Max. total current per module	4 A DC		6 A DC	
Simultaneity	100 %		100 %	
Load types	resistive, inductive		resistive, inductive	
Status display	LED green		LED green	
Output response	resistant to overload an	d short-circuit	resistant to overload	and short-circuit
Operating voltage / power input		5% residual ripple/< 3 W		k. 5% residual ripple/< 3 W
General	24 V DC, ±20 /0, IIIdX. S	o residual rippie/< 5 vv	24 V DC, ±20 /0, IIIa/	x. 5 % residual rippie/< 3 vv
Signal delay input/output	< 1 us/< 300 μs		< 100 μs	
Max. voltage power contacts	30 V DC		30 V DC	
Max. current power contacts	8 A DC		8 A DC	
Insulation voltage	350 V AC, 50 Hz (syster	m / cumplu)	350 V AC, 50 Hz (sys	tom / gunnly)
<u>_</u>	· ·	* * * *		
Creepage distances and clearances	DIN EN 61131-2; DIN E		DIN EN 61131-2; DIN	
Electrostatic discharge	EN 61000-4-2; 8 KV air;		EN 61000-4-2; 8 KV a	
Electromagnetic fields	ENV 50140; 10 V/m; 30		ENV 50140; 10 V/m;	
Immunity / emitted interference		, limit value class A, group 1		111, limit value class A, group 1
Burst	accord. to EN 61000-4-4	1	accord. to EN 61000-	4-4
Connection style	spring connection	A A A A A C	spring connection	10. AVA/O
Cross-sectional area-fine stranded / solid	26 - 14 AWG / 26 - 16		26 - 14 AWG / 26 -	
Ambient temperature	0 °C+55 °C (accord. to		0 °C+55 °C (accord	
Storage temperature	-25 °C+75 °C (accord	1. to DIN 40040)	−25 °C+75 °C (acco	ord. to DIN 40040)
Accessories	00 000 0000		00.000.000.	
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1		83.039.0000.1	
Adhesive labels, DIN A4 sheet	05.591.3255.0		05.591.3255.0	
2pole jumper for parallel output switching	Z7.258.1225.0		Z7.258.1225.0	
Marking tag, 8-digit, unmarked	04.242.1553.0		04.242.1553.0	
Marking tag, 8-digit, marked (upon request)				
End clamp for DIN rail	Z5.522.8553.0		Z5.522.8553.0	
Manual, English	05.562.1389.0		05.562.1389.0	



PT/TC **Modules**

4 sensor inputs per module, self-setting to PT100/PT1000 sensors for 2-wire, 3-wire and 4-wire connection for thermocouples type J/K



Analog module 4 inputs PT 100/1000 (ξ; Approvals: εΨω in preparation



Analog module, 4 inputs TC J/K, T C ξ; Approvals: ⁽¹⁾ us in preparation

Dimensions (mm): W x H x D	
69 x 92 x 51	

Description	Туре	Part no. Std. pack	Туре	Part no. Std. pack
	ricos 4Al Pt100	83.035.4040.1 1	ricos 4AI TC	83.035.4050.1 1
Mode display:				
	24 V – supply voltag	e connected: LED yellow	24 V – supply volta	ge connected: LED yellow
	RUN – internal data	transmission in progress: LED yellow	RUN – internal data	a transmission in progress: LED yellow
	channel LED - switc	ching status: LED green	channel LED – swit	tching status: LED green
	channel LED - channel	nel cursor: LED yellow	channel LED - char	nnel cursor: LED yellow
Wiring diagrams, derating curves	see page 434		see page 434	
Module data	Module data (acces	ssories)		
Number of inputs	4		4	
Temperature probe	PT 100; PT 1000; se	lf-setting	J, K, T	
Operating voltage	24 V DC, ±20 %, ma	ax. 5 % residual ripple	24 V DC, ±20 %, m	nax. 5 % residual ripple
Power input	< 3 W		< 3 W	•
Configurable	PC, PLC, diagnosis of	code 9 bus coupler	PC, PLC, diagnosis	code 9 bus coupler
Required space on control side		depending on configuration)		(depending on configuration)
Technical information	1			
Measuring range	-100 °C+450 °C		-100+1370 °C	
Resolution	16 Bit		14 Bit + sign	
Sampling frequency	2 ms		2 ms	
Resolution	< 0.1 °C		0.1 °C	
Accuracy	±1 °C		0.5% over total me	easuring range
Power supply sensor	supply via PT 100 m	odule		3 3 3
Measuring time	< 100 ms		< 100 ms	
Insulation voltage	350 V AC, 50 Hz (sy	stem / supply)	350 V AC, 50 Hz (s	vstem / supply)
Creepage distances and clearances	DIN EN 61131-2; DII		DIN EN 61131-2; D	
Electrostatic discharge	EN 61000-4-2; 8 KV		EN 61000-4-2; 8 K\	
Electromagnetic fields	ENV 50140; 10 V/m;	· · · · · · · · · · · · · · · · · · ·	ENV 50140; 10 V/n	
Immunity / emitted interference		5011, limit value class A, group 1		55011, limit value class A, group 1
Burst	accord. to EN 61000		accord, to EN 6100	
Connection style	spring connection	,	spring connection	70
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 –	- 16 AWG	26 – 14 AWG / 26	- 16 AW/G
Ambient temperature	0 °C+ 55 °C (accord		0 °C+55 °C (acco	
Storage temperature	-25 °C+75 °C (acc	<u></u>		ccord. to DIN 40040)
Accessories	-25 C+75 C (dcc	Cord. to DIN 40040)	-25 C+75 C (at	ccord. to Dirk 40040)
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1			
Adhesive labels, DIN A4 sheet	05.591.3255.0			
2pole jumper for parallel output switching	Z7.258.1225.0			
Marking tag, 8-digit, unmarked	04.242.1553.0			
Marking tag, 8-digit, marked (upon request)	04.242.1000.0			
End clamp for DIN rail	Z5.522.8553.0			
Manual, English	05.562.1389.0		05.562.1389.0	
ivianaa, Englisti	00.002.1000.0		00.002.1308.0	

423 Specifications are subject to change without notice



Analog I/O modules

for default signals of 0...10 V or ±10 V for 2-wire, 3-wire and 4-wire connection Electronic components can be replaced without disconnecting the wiring



Analog I/O module 4 inputs 0 to 10 V (€; Approvals: in preparation



Analog I/O module 4 inputs ±10 V

(€; Approvals: ເພີ່ມແຮ

Dimensions (mm): W x H x D	
69 x 92 x 51	

Description	Type Part no. Std. pack	Type Part no. Std. pack
	ricos 4AI/010 V 83.035.4001.1 1	ricos 4AI/±10 V 83.035.4000.1 1
Mode display:	24 V – supply voltage connected: LED yellow	24 V – supply voltage connected: LED yellow
	RUN – internal data transmission in progress: LED yellow	RUN – internal data transmission in progress: LED yellow
	channel LED – switching status: LED green	channel LED – switching status: LED green
	channel LED - channel cursor: LED yellow	channel LED – channel cursor: LED yellow
Wiring diagrams, derating curves	see page 433	see page 433
Module data		
Number of inputs	4	4
Number of outputs	0	0
Operating voltage	24 V DC, ±20 %, max. 5 % residual ripple	24 V DC, ±20 %, max. 5 % residual ripple
Power input	< 2.5 W	< 2.5 W
Configurable	PC, PLC, diagnosis code 9 bus coupler	PC, PLC, diagnosis code 9 bus coupler
Required space on control side	1 to 4 input words (depending on configuration)	1 to 4 input words (depending on configuration)
Technical information		
Measuring range	0+9.995 V	-10+9.995 V
Resolution	12 Bit	12 Bit
Sampling frequency	< 2 ms	< 2 ms
Offset error	typ. 0.5 LSB; max. 1 LSB	typ. 0.5 LSB; max. 1 LSB
Channel crosstalk	-74 dB (f < 100 Hz)	-74 dB (f < 100 Hz)
Gain error	typ. 0.08 % FSR; max. 0.2 % FSR	typ. 0.08 % FSR; max. 0.2 % FSR
Noise voltage	typ. 0.5 LSB; max. 2 LSB	typ. 0.5 LSB; max. 2 LSB
Offset error due to source impedance	+3 LSB/kOhm (Uinput = 0 V)	+3 LSB/kOhm (Uinput = 0 V)
Galvanic isolation	75 V (AGND/shield)	75 V (AGND/shield)
Common mode range	+12.8 V DC	-12.8 V/+12.8 V DC
Input resistance	1 MOhm	1 MOhm
Input current	typ. 15 μA	typ. 15 μA
Short-circuit current / short-circuit duration	-	-
Ripple	-	-
Voltage range for open-circuit recognition on both sides	9.9 V (floating source)	-10V/9.9 V (floating source)
Common mode rejection	87 dB (f = DC); 70 dB (f = 50 Hz); 60 dB (f = 1 kHz)	87 dB (f = DC); 70 dB (f = 50 Hz); 60 dB (f = 1 kHz)
Common mode input resistance	500 kOhm (inputs short-circuited against AGND)	500 kOhm (inputs short-circuited against AGND)
Capacitive common mode input resistance	4.4 nF (inputs short-circuited against AGND)	4.4 nF (inputs short-circuited against AGND)
Dynamic common mode input resistance	1.1 kOhm (f > 100 kHz)	1.1 kOhm (f > 100 kHz)
Insulation voltage	350 V AC, 50 Hz (system / supply)	350 V AC, 50 Hz (system / supply)
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178	DIN EN 61131-2; DIN EN 50178
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact	EN 61000-4-2; 8 KV air; 4 KV contact
Electromagnetic fields	ENV 50140; 10 V/m; 301000 MHz	ENV 50140; 10 V/m; 301000 MHz
Immunity/emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1	EN 61000-6-2/EN 55011, limit value class A, group 1
Burst	accord. to EN 61000-4-4	accord. to EN 61000-4-4
Connection style	spring connection	spring connection
Cross-sectional area-fine stranded / solid	26 - 14 AWG / 26 - 16 AWG	26 - 14 AWG / 26 - 16 AWG
Ambient temperature	0 °C+55 °C (accord. to DIN 40040)	0 °C+55 °C (accord. to DIN 40040)
Storage temperature	-25 °C+75 °C (accord. to DIN 40040)	-25 °C+75 °C (accord. to DIN 40040)
Accessories		
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1	83.039.0000.1
Adhesive labels, DIN A4 sheet	05.591.3255.0	05.591.3255.0
2pole jumper for parallel output switching	Z7.258.1225.0	Z7.258.1225.0
Marking tag, 8-digit, unmarked	04.242.1553.0	04.242.1553.0
Marking tag, 8-digit, marked (upon request)		
End clamp for DIN rail	Z5.522.8553.0	Z5.522.8553.0
Manual, English	05.562.1389.0	05.562.1389.0
	-	-

ricos

Analog I/O modules

Dimensions (mm): W x H x D

69 x 92 x 51

for default signals of 0...10 V or ±10 V for 2-wire, 3-wire and 4-wire connection Electronic components can be replaced without disconnecting the wiring



Analog I/O module 4 inputs and 4 outputs 0 to 10 V (; Approvals: @ in preparation



Analog I/O module 4 inputs and 4 outputs ±10 V (; Approvals: c(!) us

	(); Approvals: () In preparation	CE; Approvals: (U)us	
Description	Type Part no. Std. pack	Type Part no. Std. pack	
	ricos 4Al4AO/010 V 83.035.4101.1 1	ricos 4Al4AO/±10 V 83.035.4100.1 1	
Mode display:	24 V – supply voltage connected: LED yellow	24 V – supply voltage connected: LED yellow	
	RUN – internal data transmission in progress: LED yellow	RUN – internal data transmission in progress: LED yellow	
	channel LED – switching status: LED green	channel LED – switching status: LED green	
	channel LED – channel cursor: LED yellow	channel LED – channel cursor: LED yellow	
Wiring diagrams, derating curves	see page 433	see page 433	
Module data			
Number of inputs	4	4	
Number of outputs	4	4	
Operating voltage	24 V DC, ±20 %, max. 5 % residual ripple	24 V DC, ±20 %, max. 5 % residual ripple	
Power input	< 2.5 W	< 2.5 W	
Configurable	PC, PLC, diagnosis code 9 bus coupler	PC, PLC, diagnosis code 9 bus coupler	
Required space on control side	1 to 4 input / output words (depending on configuration)	1 to 4 input / output words (depending on configuration)	
Technical information	1 to 4 input / output words (asperialing on corningalitation)	1 to 4 input / output words (deponding on cornigination)	
Measuring range	0+9.995 V	-10+9.995 V	
Resolution	12 Bit	12 Bit	
Sampling frequency	< 2 ms	< 2 ms	
Offset error	typ. 0.5 LSB; max. 1 LSB	typ. 0.5 LSB; max. 1 LSB	
Channel crosstalk	-74 dB (f < 100 Hz)	-74 dB (f < 100 Hz)	
	Input: max. 0.2 % FSR; output: max. 0.12 % FSR	typ. 0.08 % FSR; max. 0.2 % FSR	
Gain error		typ. 0.08 % FSN; max. 0.2 % FSN typ. 0.5 LSB; max. 2 LSB	
Noise voltage	typ. 0.5 LSB; max. 2 LSB		
Offset error	Input: +3 LSB/kOhm (Uinput = 0 V); output:: max. 10 mV	+3 LSB/kOhm (Uinput = 0 V)	
Galvanic isolation	75 V (AGND/shield)	75 V (AGND/shield)	
Common mode range	+12.8 V DC	-12.8 V/+12.8 V DC	
Input resistance	1 MOhm	1 MOhm	
Input current/output current	typ. 15 μA/10 mA	typ. 15 µA	
Short-circuit current / short-circuit duration	20 mA/100 % ON	20 mA/100 % ON	
Ripple	5 mV	5 mV	
Voltage range for open-circuit recognition on both sides	9.9 V (floating source)	-10V/9.9 V (floating source)	
Common mode rejection	87 dB (f = DC); 70 dB (f = 50 Hz); 60 dB (f = 1 kHz)	87 dB (f = DC); 70 dB (f = 50 Hz); 60 dB (f = 1 kHz)	
Common mode input resistance	500 kOhm (inputs short-circuited against AGND)	500 kOhm (inputs short-circuited against AGND)	
Capacitive common mode input resistance	4.4 nF (inputs short-circuited against AGND)	4.4 nF (inputs short-circuited against AGND)	
Dynamic common mode input resistance	1.1 kOhm (f > 100 kHz)	1.1 kOhm (f > 100 kHz)	
Insulation voltage	350 V AC, 50 Hz (system / supply)	350 V AC, 50 Hz (system / supply)	
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178	DIN EN 61131-2; DIN EN 50178	
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact	EN 61000-4-2; 8 KV air; 4 KV contact	
Electromagnetic fields	ENV 50140; 10 V/m; 301000 MHz	ENV 50140; 10 V/m; 301000 MHz	
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1	EN 61000-6-2/EN 55011, limit value class A, group 1	
Burst	accord. to EN 61000-4-4	accord. to EN 61000-4-4	
Connection style	spring connection	spring connection	
Cross-sectional area-fine stranded / solid	26 - 14 AWG / 26 - 16 AWG	26 - 14 AWG / 26 - 16 AWG	
Ambient temperature	0 °C+55 °C (accord. to DIN 40040)	0 °C+55 °C (accord. to DIN 40040)	
Storage temperature	-25 °C+75 °C (accord. to DIN 40040)	-25 °C+75 °C (accord. to DIN 40040)	
Accessories			
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1	83.039.0000.1	
Adhesive labels, DIN A4 sheet	05.591.3255.0	05.591.3255.0	
2pole jumper for parallel output switching	Z7.258.1225.0	Z7.258.1225.0	
Marking tag, 8-digit, unmarked	04.242.1553.0	04.242.1553.0	
Marking tag, 8-digit, marked (upon request)			
End clamp for DIN rail	Z5.522.8553.0	Z5.522.8553.0	
Manual, English	05.562.1389.0	05.562.1389.0	
	1 1111		

Specifications are subject to change without notice



Analog I/O modules

for default signals of 0...20 mA for 2-wire, 3-wire and 4-wire connection Electronic components can be replaced without disconnecting the wiring



Analog I/O module 4 inputs 0 to 20 mA (; Approvals: e lus

Dimensions (mm): W x H x D 69 x 92 x 51

Description	Type Part no. Std. pack	
	ricos 4AI/0–20 mA 83.035.4010.1 1	
Mode display:		
	24 V – supply voltage connected: LED yellow	
	RUN – internal data transmission in progress: LED yellow	
	channel LED – switching status: LED green	
	channel LED – channel cursor: LED yellow	
Wiring diagrams, derating curves	see page 433	
Module data		
Number of inputs	4	
Number of outputs	0	
Operating voltage	24 V DC, ±20 %, max. 5 % residual ripple	
Power input	< 2.5 W	
Configurable	PC, PLC, diagnosis code 9 bus coupler	
Required space on control side	1 to 4 input words (depending on configuration)	
Technical information		
Measuring range	0+19.995 mA	
Resolution	12 Bit	
Sampling frequency	2 ms	
Offset error	typ. 0.5 LSB; max. 1 LSB	
Channel crosstalk	-74 dB (f < 100 Hz)	
Gain error	max. 0.45 % FSR	
Noise voltage	typ. 0.5 LSB; max. 2 LSB	
Drift rate		
Galvanic isolation	75 V (AGND/shield)	
Output load	max. 100.1 Ohm	
Continuous input current	40 mA bei 100 % ON	
Continuous input current Continuous input voltage	4 V bei 100 % ON	
Short-circuit duration		
Ripple		
• •	1.1 kOhm (f > 100 kHz)	
Dynamic common mode input resistance Insulation voltage	350 V AC, 50 Hz (system / supply)	
	DIN EN 61131-2; DIN EN 50178	
Creepage distances and clearances		
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact	
Electromagnetic fields	ENV 50140; 10 V/m; 301000 MHz	
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1	
Burst Connection at the	accord. to EN 61000-4-4	
Connection style	spring connection	
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG	
Ambient temperature	0 °C+55 °C (accord. to DIN 40040)	
Storage temperature	-25 °C+75 °C (accord. to DIN 40040)	
Accessories	00.000.000.4	
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1	
Adhesive labels, DIN A4 sheet	05.591.3255.0	
2pole jumper for parallel output switching	Z7.258.1225.0	
Marking tag, 8-digit, unmarked	04.242.1553.0	
Marking tag, 8-digit, marked (upon request)		
End clamp for DIN rail	Z5.522.8553.0 05.562.1389.0	
Manual, English		

ricos

Analog I/O modules

for default signals of 0...20 mA or 4...20 mA for 2-wire, 3-wire and 4-wire connection Electronic components can be replaced without disconnecting the wiring



Analog I/O module 4 inputs and 4 outputs 0 to 20 mA (6; Approvals: (10) us



Analog I/O module 4 inputs and 4 outputs 4–20 mA CC; Approvals: (**) in preparation

Dimensions (m 69 x 92 x 51	nm): W x H x D
Description	

83.035.4110.1	ricos 4AIAO/4–20 mA 83.035.4111.1 1
· · · · · · · · · · · · · · · · · · ·	
ected: LED yellow	24 V – supply voltage connected: LED yellow
ission in progress: LED yellow	RUN – internal data transmission in progress: LED yellow
atus: LED green	channel LED – switching status: LED green
sor: LED yellow	channel LED - channel cursor: LED yellow
	see page 433
	4
	4
residual ripple	24 V DC, ±20 %, max. 5 % residual ripple
	< 2.5 W
bus coupler	PC, PLC, diagnosis code 9 bus coupler
(depending on configuration)	1 to 4 input / output words (depending on configuration)
	4+19.995 mA
	12 Bit
	2 ms
max. 4 uA	Input: max. 1 LSB; output: max. 4 uA
	-74 dB (f < 100 Hz)
tput: max. 0.5 % FSR	Input: max. 0.45 % FSR; output: max. 0.5 % FSR
	typ. 0.5 LSB; max. 2 LSB
	4 μA/ms
	75 V (AGND/shield)
tput: 500 Ohm	Input: max. 100.1 Ohm; output: 500 Ohm
-	40 mA bei 100 % ON
	4 V bei 100 % ON
	20 mA; 100 % ON
	10 µA
	1.1 kOhm (f > 100 kHz)
supply)	350 V AC, 50 Hz (system / supply)
0178	DIN EN 61131-2; DIN EN 50178
V contact	EN 61000-4-2; 8 KV air; 4 KV contact
000 MHz	ENV 50140; 10 V/m; 301000 MHz
nit value class A, group 1	EN 61000-6-2/EN 55011, limit value class A, group 1
	accord. to EN 61000-4-4
	spring connection
VG	26 – 14 AWG / 26 – 16 AWG
N 40040)	0 °C+55 °C (accord. to DIN 40040)
DIN 40040)	-25 °C+75 °C (accord. to DIN 40040)
·	
	83.039.0000.1
	05.591,3255.0
	Z7.258.1225.0
	04.242.1553.0
	22 . 2
	Z5.522.8553.0
	05.562.1389.0
	55.502.1505.0

427 Specifications are subject to change without notice



Field bus coupler including DI/DO channels

Compact modules configurable as input or output for 2-wire, 3-wire and 4-wire connection Electronic components can be replaced without disconnecting the wiring

Dimensions (mm): W x H x D

69 x 92 x 51



PROFIBUS DP

C €; Approvals: ﷺ, Profibus certification



Compact modules Interbus

(€; Approvals: ((I))us, Interbus certification

8 DI or 8 DO (configurable)	ricos com-dp 8I/O 83.030.1100.1 1	ricos com-s 8I/O 83.031.1100.1 1	
16 DI	ricos com-dp 16l 83.030.1000.1 1	ricos com-s 16l 83.031.1000.1 1	
16 DO	ricos com-dp 16O 83.030.1200.1 1	ricos com-s 16O 83.031.1200.1 1	
8 DI and 8 DI/8 DO configurable*	ricos com-dp 8l 8l/O 83.030.1300.1 1	ricos com-s 8l 8l/O 83.031.1300.1 1	
Mode display:			
	24 V – supply voltage connected: LED yellow	24 V – supply voltage connected: LED yellow	
	RUN – internal data transmission in progress: LED yellow	RUN – internal data transmission in progress: LED yellow	
	channel LED – switching status: LED green	channel LED – switching status: LED green	
	channel LED - channel cursor: LED yellow	channel LED - channel cursor: LED yellow	
Wiring diagrams, derating curves	see page 431	see page 431	
System data			
Max. number of nodes	126	256	
Transmission medium	screened copper cable 2 x 0.25 mm²/AWG 23	screened copper cable 5 x 0.25 mm²/AWG 23	
Max. network expansion	100 m-1200 m (depending on baud rate / cable)	400 m (remote bus)	
Baud rate	9.6 kBaud12 Mbaud	500 kBaud	
Internal bus refresh	2 ms	2 ms	
Bus connection	1 x D-SUB 9, screened female connector	2 x D-SUB 9, screened female and male connectors	
Input data			
Switching level "0" (EN 61131-2)	-30 V+5 V DC	-30 V+5 V DC	
Switching level "1" (EN 61131-2)	+15 V+30 V DC	+15 V+30 V DC	
Input current / channel (at 24 V DC)	4.5 mA/6.5 mA (combin, I/O)	4.5 mA/6.5 mA (combin. I/O)	
Status display	LED green	LED green	
Output data:		225 9:00:1	
Output voltage	operating voltage -0.5 V DC	operating voltage –0.5 V DC	
Output current per channel	1000 mA DC	1000 mA DC	
Max. total current per module	8 A DC	8 A DC	
Simultaneity	100 % at max. 500 mA per channel		
Load types	resistive, inductive	100 % at max. 500 mA per channel resistive, inductive	
	·		
Status display	LED green	LED green	
Output response	resistant to overload and short-circuit	resistant to overload and short-circuit	
General	100	400	
Signal delay per I/O channel	< 100 μs	< 100 μs	
Max. voltage power contacts	30 V DC	30 V DC	
Max. current power contacts	8 A DC	8 A DC	
Insulation voltage	350 V AC, 50 Hz (system / supply)	350 V AC, 50 Hz (system / supply)	
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178	DIN EN 61131-2; DIN EN 50178	
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact	EN 61000-4-2; 8 KV air; 4 KV contact	
Electromagnetic fields	ENV 50140; 10 V/m; 301000 MHz	ENV 50140; 10 V/m; 301000 MHz	
Immunity / emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1	EN 61000-6-2/EN 55011, limit value class A, group 1	
Burst	accord. to EN 61000-4-4	accord. to EN 61000-4-4	
Connection style	spring connection	spring connection	
Cross-sectional area-fine stranded / solid	26 – 14 AWG / 26 – 16 AWG	26 – 14 AWG / 26 – 16 AWG	
Ambient temperature	0 °C+55 °C (accord. to DIN 40040)	0 °C+55 °C (accord. to DIN 40040)	
Storage temperature	-25 °C+75 °C (accord. to DIN 40040)	-25 °C+75 °C (accord. to DIN 40040)	
Accessories			
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1	83.039.0000.1	
Adhesive labels, DIN A4 sheet	05.591.3255.0	05.591.3255.0	
2pole jumper for parallel output switching	Z7.258.1225.0	Z7.258.1225.0	
Marking tag, 8-digit, unmarked	04.242.1553.0	04.242.1553.0	
Marking tag, 8-digit, marked (upon request)			
End clamp for DIN rail	Z5.522.8553.0	Z5.522.8553.0	
GSD file and Word template for labels	05.591.3255.0	05.591.3255.0	

ricos

Field bus coupler including DI/DO channels

Compact modules
Configurable as input or output for
2-wire, 3-wire and 4-wire connection

Electronic components can be replaced without disconnecting the wiring

Dimensions (mm): W x H x D $69 \times 92 \times 51$



Compact modules DeviceNet

(€; Approvals: ເພີ່ມຮ



Compact modules CANopen

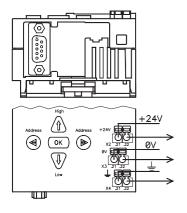
C €; Approvals: ((U)) in preparation

Description	Type Part no. Std. pack	Type Part no. Std. pack
8 DI or 8 DO (configurable)	ricos com-dn 8I/O 83.032.1100.1 1	ricos com-co 8I/O 83.033.1100.1 1
16 DI	ricos com-dn 16l 83.032.1000.1 1	ricos com-co 16l 83.033.1000.1 1
16 DO	ricos com-dn 160 83.032.1200.1 1	ricos com-co 16O 83.033.1200.1 1
8 DI and 8 DI/8 DO configurable	ricos com-dn 8l 8l/O 83.032.1300.1 1	ricos com-co 8l 8l/O 83.033.1300.1 1
Mode display:	24 V – supply voltage connected: LED yellow	24 V – supply voltage connected: LED yellow
	RUN – internal data transmission in progress: LED yellow	RUN – internal data transmission in progress: LED yellow
	channel LED – switching status: LED green	channel LED – switching status: LED green
	channel LED – channel cursor: LED yellow	channel LED – channel cursor: LED yellow
Wiring diagrams, derating curves	see page 431	see page 431
System data		
Max. number of nodes	64 with repeater	256
Transmission medium	screened copper cable trunk line AWG 15.18	screened copper cable 3 x 0.25 mm²/AWG 23
	screened copper cable drop line AWG 22,24	
Max. network expansion	100 m-500 m (depending on baud rate / cable)	100 m-500 m (depending on baud rate / cable)
Baud rate	125/250/500 kBaud (setting via keyboard)	10 kBaud1 MBaud (setting via keyboard)
Internal bus refresh	2 ms	2 ms
Bus connection	5pole connector, screw	5pole connector, screw
Input data		
Switching level "0" (EN 61131-2)	-30 V+5 V DC	-30 V+5 V DC
Switching level "1" (EN 61131-2)	+15 V+30 V DC	+15 V+30 V DC
Input current / channel (at 24 V DC)	4.5 mA/6.5 mA (combin. I/O)	4.5 mA/6.5 mA (combin. I/O)
Status display	LED green	LED green
Output data:	EED green	LED green
Output voltage	operating voltage -0.5 V DC	operating voltage -0.5 V DC
Output voltage Output current per channel	1000 mA DC	1000 mA DC
Max. total current per module	8 A DC	8 A DC
·		
Simultaneity	100 % at max. 500 mA per channel	100 % at max. 500 mA per channel
Load types	resistive, inductive	resistive, inductive
Status display	LED green	LED green
Output response	resistant to overload and short-circuit	resistant to overload and short-circuit
General	400	400
Signal delay per I/O channel	< 100 us	< 100 us
Max. voltage power contacts	30 V DC	30 V DC
Max. current power contacts	8 A DC	8 A DC
Insulation voltage	350 V AC, 50 Hz (system / supply)	350 V AC, 50 Hz (system / supply)
Creepage distances and clearances	DIN EN 61131-2; DIN EN 50178	DIN EN 61131-2; DIN EN 50178
Electrostatic discharge	EN 61000-4-2; 8 KV air; 4 KV contact	EN 61000-4-2; 8 KV air; 4 KV contact
Electromagnetic fields	ENV 50140; 10 V/m; 301000 MHz	ENV 50140; 10 V/m; 301000 MHz
Immunity/emitted interference	EN 61000-6-2/EN 55011, limit value class A, group 1	EN 61000-6-2/EN 55011, limit value class A, group 1
Burst	accord. to EN 61000-4-4	accord. to EN 61000-4-4
Connection style	spring connection	spring connection
Cross-sectional area-fine stranded / solid	26 - 14 AWG / 26 - 16 AWG	26 – 14 AWG / 26 – 16 AWG
Ambient temperature	0 °C+55 °C (accord. to DIN 40040)	0 °C+55 °C (accord. to DIN 40040)
Storage temperature	-25 °C+75 °C (accord. to DIN 40040)	-25 °C+75 °C (accord. to DIN 40040)
Accessories		
Snap-on potential distributor for 3-wire and 4-wire operation	83.039.0000.1	83.039.0000.1
Adhesive labels, DIN A4 sheet	05.591.3255.0	05.591.3255.0
2pole jumper for parallel output switching	Z7.258.1225.0	Z7.258.1225.0
Marking tag, 8-digit, unmarked	04.242.1553.0	04.242.1553.0
Marking tag, 8-digit, marked (upon request)		
End clamp for DIN rail	Z5.522.8553.0	Z5.522.8553.0
EDS file and Word template for labels	05.591.3255.0	05.591.3255.0
Manual, English	05.562.1389.0	05.562.1389.0

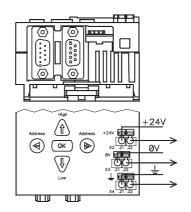


Wiring diagrams of the Buscoupler

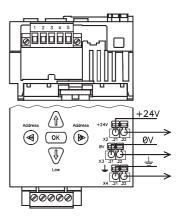
PROFIBUS DP



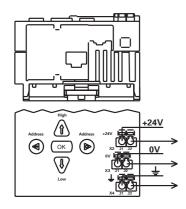
Interbus



DeviceNet and CANopen

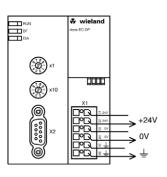


Ethernet

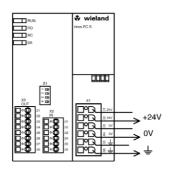


Wiring diagrams of economy Buscoupler

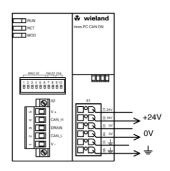
PROFIBUS DP



Interbus



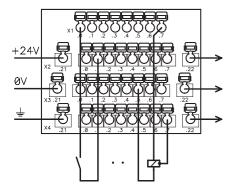
DeviceNet and CANopen



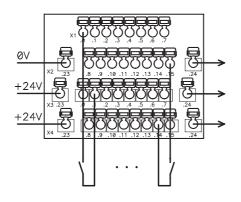
ricos OS

Wiring diagrams of binary and compact modules

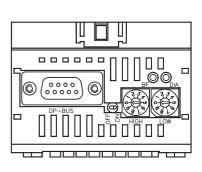
ricos 8I/O and ricos COM 8I/O



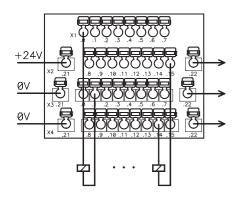
ricos 16l and ricos COM 16l



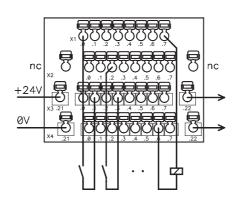
ricos COM-DP



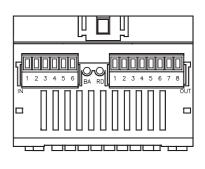
ricos 160 and ricos COM 160



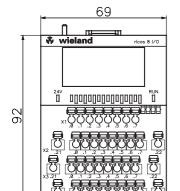
ricos 8I 8I/O and ricos COM 8I 8I/O

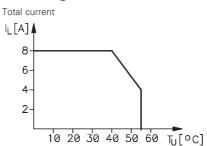


ricos COM-S

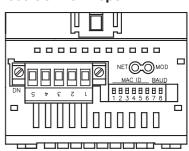


Derating





ricos COM CAN DN ricos COM CANopen



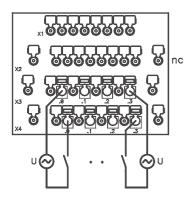
Distributed I/O Modules

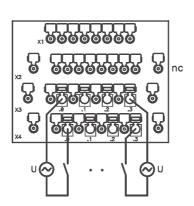


Wiring diagrams of binary modules

ricos 4l 115 V

ricos 41 230 V

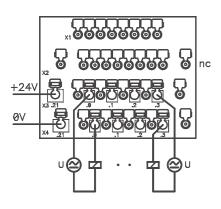




ricos 40 RELAY

ricos 80 DC 2 A

ricos 80 NEG



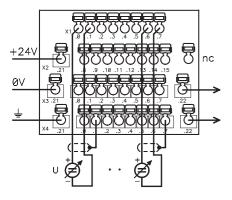
in preparation

in preparation

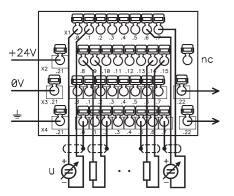


Wiring diagrams of analog modules

ricos 4AI/0...10 V ricos 4 AI/±10 V ricos 4AI/0...20 mA



ricos 4Al4AO/0...10 V ricos 4Al4AO/±10 V ricos 4Al4AO/0...20 mA ricos 4Al4AO/4...20 mA



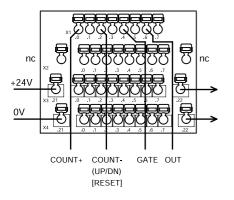
Specifications are subject to change without notice 433

Distributed I/O Modules

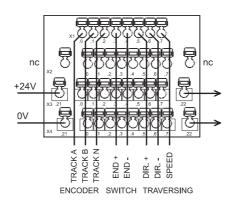


Wiring diagrams of the counter and positioning modules

ricos COUNTER

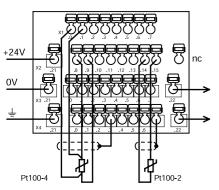


ricos POSITION

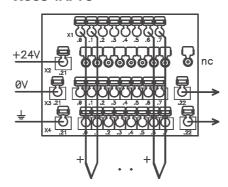


Wiring diagrams of the PT100 and TC modules

ricos 4Al Pt100

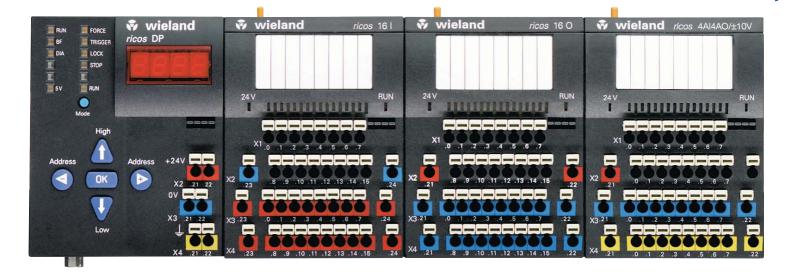


ricos 4AI TC





<i>ricos</i> housing data	
Vlaterial	Makrolon 2805, Lexan 161R, Polyamid 6.0 GF20
Colour	black
lammability class	in accordance DIN VDE 0304 T3 (IEC 707) in accordance UL 94-V-2
Resistance to creepage	in accordance DIN VDE 0303 T1/06.84 CTI = 600
Thermal stability	in accordance DIN VDE 0304 20.000 h/5.000 h 100/115 °C
Electric strength	in accordance DIN VDE 0303 T2 (DIN 53481/>15 kV/mm)
Protection class	Class I in accordance IEC 536
Type of protection	IP20 in accordance EN 60529
Drop test	Height of fall (DIN IEC 68-2-32), with packaging
Shock resistance	in accordance IEC 68 Section 2, see "Drop test"
Relative humidity	1095%, no moisture condensation
Air pressure during operation	8601060 hPa
Insulation strip length of cables	10 mm
Opening in terminal compartment	2.4 x 1.5 mm in accordance IEC 999
Mounting rail	TS35
Weight	approx.190 g



Specifications are subject to change without notice 435

relais

Introduction to relay technology Modular DIN rail mounted relays Plug-in DIN rail mounted relays Multiple chassis mounted relays Timer relays

The relay modules offer features such as

- Overall width of 6,2 mm
- Screw or spring-clamp connection
- Separation into input or output relays
- Multipole relay modules
- 4 kV isolation at a creepage and clearance distance of 8 mm
- Timer relay with ON delay
- Multi function time relay
- Solid state relays

All Wieland Components which require C€ general certification are C€ certified, and identified with the C€ logo.

Relay modules flare

Wieland relay modules – the reliable way to implement an application-related interface

In the microchip age, many believed that electromechanical relays would no longer play a role. This is however far from the truth. Switching relays have reliably carried out important tasks for many years, working in a "symbiotic relationship" with the electronics. Relays have demonstrated a high degree of flexibility over the years. The core characteristics have been maintained or even improved such as:

- Overload capability without costly protection measures
- \square Contact rating of μ A up to >10 A
- ☐ Various types and number of the contacts
- ☐ High level of insensitivity to electrical interference
- Switching without dependence on the direction of current (AC/DC) up to the GHz range
- ☐ Low level of switching power loss
- Electrical isolation between all contacts and the coil

Wieland offers a complete range of relay modules with a combination of properties outlined above. Depending on the required applications, relay modules are available with various operating voltages, contact arrangements, contact materials and housing designs. Timer relays or HAND-0-AUTO relays can be supplied in addition to relays with pure monostable functionality.

Product range:

flare MOVE, Plug-in, process interface relay with an overall width of 6.2 mm

flare, Process interface relay / time relay with an overall width of 6.2 mm

WEG, Switching relay modules with an overall width up to 22.5 mm

WR, WRS, RAB, Multiple switching relay modules with mounting base

Overview of the technical data

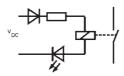
Control side - operating voltage

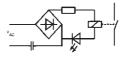
Wieland relay modules can be controlled within a defined temperature range, given operating voltage and relevant tolerance band to a 100% duty cycle.

Control side - Suppression circuit

AC/DC relay modules are available. DC relays are equipped with a polarised diode and a free-wheeling diode in the input. These functions are taken over by a power rectifier in the case of AC or AC/DC modules. All relay modules have an LED for status display in the input circuit.

Suppression circuit of input for DC operation





Suppression circuit of input for AC operation

Control side - residual voltage

To ensure the safe operation of the relay the residual voltage in the coil circuits must not exceed 5% DC and 15% AC of the operating voltage in accordance with VDE 0435. Values above this will result in the relay remaining closed after switch off.

Residual voltages can occur from semiconductor devices in circuit, induced voltages from high current cabling or other inductive or capacitive interference factors.

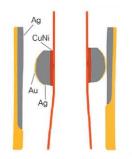
Corrective measures may involve the rerouting of cables away from interference or the parallel connection of RC elements.

Load side - contact material

The contacts are used to route control signals in a power range of mW up to more than 1000 VA. The contact material

that is used is largely determined by the load expected during operation (particularly with regard to current carrying capacity, switching frequency, operating speed as well as any corrosive environmental influences). Wieland uses the universally accepted AgSnO contacts for power ranges up to 1500 VA. In the lower power range, the same material is used but with a gold-plated finish.

Modules with gold-flashed AgCu contacts, AgCdO or gold-plated AgNi contacts are



also available. Table 1 gives an overview of other contact materials.

Cut-out of a 3-layer welded contact with a linear contact closure

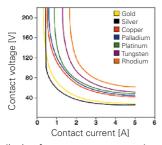
flare

Contact material	Attac	ked by	Typical properties	Typical applications	Scope
	Sulphur	Oxidisation	Typical properties	турісаі арріісаціоня	Scope
Gold silver AuAg10	no	no	Low and constant contact resistance at minimum switching capacity	Dry switching circuits, measuring circuits, unfiltered communication routes	mV60 V mA300 mA
Gold nickel AuNi5	no	slightly	Free of material transfer in broad loading ranges, small contact resistance, slight electric arcs occur at low switching capacities, higher number of operations and greater contact follow-through, interference possible due to friction oxides	Used in low and medium voltage and current ranges	100 mV60 V 1 mA300 mA
Fine grained silver AgNi0,15	yes	no	Higher mechanical strength, low welding tendency and higher arc resistance than Ag, relatively smaller contact resistance	Universal use in medium- sized loads at higher voltage than gold nickel	>12 V 1 mA1 A
Hard silver AgCu3	yes	when switching	Higher mechanical strength, low welding tendency and higher arc resistance than fine silver but a greater contact resistance	Used in medium-sized loads	>12 V 10 mA10 A
Silver nickel AgNi10	yes	no	Higher arc resistance, low welding tendency, greater contact resistance	Switching circuits for medium to high loads, d.c. circuit	>17 V >5 mA
Silver cadmium Oxid AgCdO10	yes	no	Low welding tendency, high arc resistance at greater switching capacities	Particularly suitable for switching inductive loads	>12 V >100 mA
Silver tin oxide AgSnO10	yes	no	Low welding tendency, very high arc resistance at high switching capacities, low rate of material transfer	Switching circuits with high loads during opening and closing, d.c. circuits	>17 V >5 mA
AgNi0,15+ 5 μ Au	no	yes	Good corrosion properties, good contact resistance	Small switching capacities for dry circuits	μV30 V μA200 mA
AuAg10 over AgNi+Au	no	yes	Behaves as 5 m gold contact but its resistance to wear is five times greater	Switching capacity: 10 ⁻⁶ W / VA up to 100 W / 1 kVA	> 100 mV > 10 µA

Table 1: Overview of contact materials

Contact side - reduction of arcs

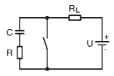
When the arc limit voltage (see diagram) which is dependent on the switching current and contact material is exceeded, discharge processes take place on the relay contact. Material transfer occurs which damages the contact. To achieve a long service life and a high level of reliability despite this type of contact loading, circuit elements are required for arc suppression. Several options are available.



Arc limit of pure contact metals

D.C. circuits with a resistive load

An RC element which is connected in parallel to the contact can be used for arc suppression.



RC element parallel

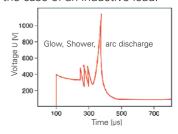
At the point of disconnection, the voltage Uc at the contact jumps from zero to the value UxR/(R+R_L) and then rises according to the function U_c =U (1-e^{-t}/_T) whereby t=(R+R_L) x C. The resistance R must be high enough so that the combined total of the condenser discharge current and the switching current at start-up is less than the maximum permitted starting current.

 $R>U/(I_{zul}U/R)$

At a switching frequency 1/T, the capacitor should have discharged its load again before the contact is reopened. This is essentially guaranteed if **C<T/2R** has been selected.

D.C. circuits with an inductive load

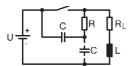
While the maximum switching voltage U is applied when a resistive load is present at the contact, voltage peaks that are approximately 10 times as high can occur in the case of an inductive load.



Voltage characteristics at the relay contact for inductive loads

Relay modules flare

To avoid harmful discharge processes, it is necessary to prevent a sudden disruption in the flow of current and simultaneously ensure that the voltage rise at the contact, which is limited by the degradation of the magnetic field, takes place at a slower rate than the opening of the contact. This counteracts the occurrence of a discharge process and an air gap is therefore created as quickly as possible after the opening of the contact whose igniting voltage far exceeds the voltage building up at the contacts. An RC element which lies parallel to the contact can also be used for this purpose.



RC element for inductive load

When the contact opens, a charging current which is subsiding after an e function, flows into the capacitor. This slows down the absorption of the current that is flowing through the inductor and the peak value of the voltage at the contact is simultaneously reduced. The following serves as a practical, approximate value for the rating of the capacitor

C (μ F) \cong I²/10 (A)

where I represents the respective switching current. The resistance must be rated so that the combined total of the capacitor discharge current and the switching current is again less than the permitted starting current.

Another possibility is the parallel connection of an RC element to the load itself (see diagram above). This protective measure is equally effective. The disadvantage of both arrangements is the use of relatively large and therefore expensive capacitors.

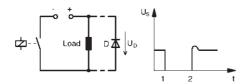
RC circuit for a.c. load

A VDR resistor (Voltage Dependent Resistor) or varistor can be connected in parallel to the load in this application in order to protect the contact. The resistance of this component is low for high voltage levels and high for low voltage levels. Varistors are therefore extremely suitable for the suppression of arcs in a.c. circuits. Table 2 gives an overview of further possibilities for arc suppression.

Protective circuit for load	Additional dropout delay	Defined limit for induced voltage	Bipolar attenuation	Benefits / Disadvantages
Diode	long	yes (UD)	no	Benefits: Simple implementation Cost effective Reliable Non-critical dimensioning Small induced voltage Disadvantages: Attenuation only via load resistance Long dropout delay
Series-connected diode / Zener diode	medium to short	yes (U _{ZD})	no	Benefit: Non-critical dimensioning Disadvantage: Attenuation only above U _{ZD}
Suppressor diode	medium to short	yes (U _{ZD})	yes	Benefits: Cost effective Non-critical dimensioning Suitable for AC voltage Limit of positive peaks Disadvantage: Attenuation only above UZD
Varistor	medium to short	yes (U _{VDR})	yes	Benefits: High absorption of energy Non-critical dimensioning Suitable for AC voltage Disadvantage: Attenuation only above U _{VDR}
RC Combination	medium to short	no	yes	Benefits: HF attenuation of stored energy Suitable for AC voltage Attenuation is not dependent on the level Disadvantages: Exact values required High inrush current Sensitive to harmonic waves

Table 2: Overview of protective measures on the switch output

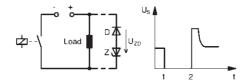
Diode:



Benefit: Can be used for all capacities, low overvoltage, compact, costeffective

Disadvantage: Very high resetting time

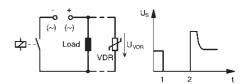
Diode and Zener diode:



Benefit: Low overvoltage (defined by Zener diode), low resetting time

Disadvantage: Cannot be used for large capacities

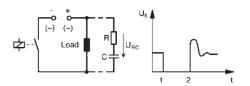
Varistor:



Benefit: Low resetting time, costeffective

Disadvantage: Cannot be used for all operating voltages and capacities

RC combination:



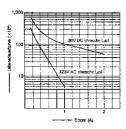
Benefit: Low overvoltage, low resetting time

Disadvantage: High current loading of the contacts at start-up, more costly and time-consuming with increased capacity

flare

Endurance

A distinction is made in relay modules between mechanical and electrical endurance. The mechanical endurance defines the maximum number of operating cycles without contact loading while the electrical endurance describes the switching frequency at a maximum switching capacity for resistive load. A low switching capacity increases these values considerably. The following diagram indicates the typical waveform between the switching current and endurance of a relay. Figures for each relay module is shown on the relevent catalogue data page.



Typical endurance curve of a relay

Safety separation - VDE 0106

The safety separation of coupled switching circuits in the relay modules means that the isolating voltage between the control and load circuit is retained even in the event of a mechanical failure (bent soldered pin, broken coil winding or spring). When using solid-state relays or electronic relays, this requirement is met using double or reinforced insulation. The norms DIN 50178, VDE 0106 and 109 form the basis for safety separation. VDE 0884 also applies to solid-state relays.

All Wieland modules meet these requirements.

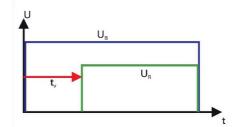
Timer relay modules

Wieland timer relays are electromechanical relays with an integrated time response. The time response is defined according to VDE 0435 section 201/5.83. The respective time range is either fixed or set via a DIP switch depending on the type. Fine-tuning within the time range can also be carried out via a potentiometer. An integrated LED indicates the switching state of the relay.

Definition of the time response

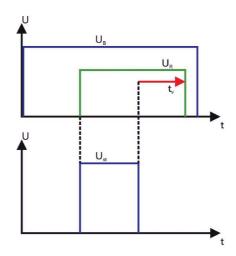
On delay

Operating voltage is applied; the relay switches to operating position after a set delay.



Operating voltage is applied; the relay remains in normal position

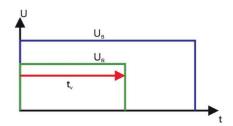
Off delay with control voltage



Control voltage is applied; the relay switches to operating position

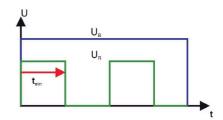
Control voltage is interrupted; time delay is activated; the relay drops out after the period has elapsed.

Single Shot

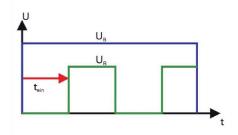


Operating voltage is applied; the relay switches to operating position and drops out after the set period

Cycle On - "pulsing"



Operating voltage is applied; relay starts clock pulse operation over the set period; relationship between pulse and pause is 1.1



Cycle Off - "pulsing delay"

Operating voltage is applied; relay starts clock pause operation over the set period; relationship between pulse and pause is 1:1

flared re



Spring-clamp Std. pack

250 V AC / 300 V DC, 6 A 1 Changeover contact (SPDT)

Spring-clamp Std. pack

48 V DC, 20 mA 1 Changeover contact (SPDT) Approvals: (1), CSA

Screw terminal

Dimensions (mm): W x H x D

Screw or spring clamp terminal

Overall width 6.2 mm

Operating voltage

6.2 x 89 x 70

can be selected

Approvals: 🗓, CSA

Screw terminal

12 V DC 80.010.4106.0 24 V DC 80.010.4000.0 80 010 4100 0 10 12 V AC/DC 24 V AC/DC 80.010.4005.0 80.010.4105.0 115 V AC 80.010.4131.0 10 230 V AC 80.010.4141.0 10 See pages 464-465 Wiring diagram, derating curve, limit curve See pages 464-465 Coil circuit Operating voltage 12 V DC 24 V DC 115 V DC 230 V DC Range of voltage UB +25 %/-20 % UB +25 %/-20 % ca. 14 mA 3.9 mA Nominal input current 3 mA ca. 14 mA ca. 0.35 W 0.48 W Nominal input capacity 0.22 W 0.65 W ca. 0.35 W Holding current at 20 °C $\geq 2.3 \text{ mA}$ $> 1.2 \text{ mA} \geq 0.6 \text{ mA}$ ≥ 0.3 mA > 1.2 mAConnectable via plug-in jumper Up to 50 modules Up to 50 modules Status display LED Green LED Green Switching characteristics Maximum switching voltage 250 V AC / 300 V DC 48 V DC Maximum switching current 20 mA 6 A AC / 2 A DC 1500 VA / 48 W Maximum switching capacity 10 A; 4 sec. Maximum starting current 8 ms / 10 ms Pickup/dropout delay 8 ms / 10 ms Chatter time 2 ms 2 ms Maximum switching frequency 20 Hz 20 Hz Contact material AgSnO₂ $AgSnO_2 + 3\mu Au$ Minimum switchable voltage 12 V 5 V Minimum switchable current 5 mA 1 mA Mechanical endurance 2 x 10 2 x 10⁷ Electrical endurance 24 V DC / 2 A 6 x 10⁵ 6 x 10⁵ Electrical endurance 230 V AC / 6 A 8 x 10⁴ 8 x 10⁴ Rated voltage 4 kV_{eff.} Isolation voltage of input/output 4 kV_{eff.} III (according to HD 625.1S1) III (according to HD 625.1S1) Overvoltage category 2 (according to HD 625.1S1) 2 (according to HD 625.1S1) Degree of pollution 0 °C...+50 °C 0 °C...+50 °C Ambient temperature Storage temperature -40 °C...+55 °C -40 °C...+55 °C Protection type/mounting rail IP 20 / TS35 IP 20 / TS35 VDE 0160; VDE 0106 T101 VDE 0160; VDE 0106 T101 Norms/specifications EN 61000-6-3; EN 61000-6-2 Emitted interference/interference immunity EN 61000-6-3; EN 61000-6-2 24 - 10 AWG / 24 - 12 AWG 24 - 10 AWG / 24 - 12 AWG Wire range of screw terminal/spring clamp terminal finely stranded 0.14 mm² - 1.5 mm² 0.14 mm² - 1.5 mm² 0.5 mm² – 2.5 mm² 0.5 mm² – 2.5 mm² single core CSA EX approval Class I, Division 2, Groups A, B, C and D, T6 Class I, Division 2, Groups A, B, C and D, T6 Accessories Plug-in jumper ($U_{max} = 50 \text{ V}, I_{max} = 2 \text{ A}$) Z8.000.0200.8 Z8.000.0200.8 8 digit marker tag, unmarked, 60 off 74 242 5153 0 74 242 5153 0 Comb for potential distribution, red/blue* Z8.000.0202.3 / Z8.000.0202.4 Z8.000.0202.3 / Z8.000.0202.4 Z8.000.0202.1 / Z8.000.0202.2 End caps for comb red/blue Z8.000.0202.1 / Z8.000.0202.2 * for screw terminals only

flare



Overall width 12.4 mm Spring clamp

Dimensions (mm): W x H x D 6.2 x 89 x 70

250 V AC / 300 V DC, 6 A (DPDT) 2 Changeover contacts

Approvals: (1), CSA

Operating voltage	Screw terminal Spring-clamp Std. pack	
12 V DC	pp.m.g class positi	
24 V DC	80.010.4103.0 10	
12 V AC/DC	00.01011100.0	
24 V AC/DC		
24 4 70/00		
115 V AC		
230 V AC		
Wiring diagram, derating curve, limit curve	See pages 464-465	
Coil circuit	- coopinger to the	
Operating voltage	UB +25 %/-20 %	
Nominal input current	ca. 14 mA	
Nominal input capacity	ca. 0.35 W	
Holding current at 20 °C	> 1.2 mA	
Connectable via plug-in jumper	Up to 50 modules	
Status display	LED Green	
otatao alopiay		
Switching characteristics		
Maximum switching voltage	250 V AC / 300 V DC	
Maximum switching current	6 A AC / 2 A DC	
Maximum switching capacity	1500 VA / 48 W	
Maximum starting current	10 A; 4 sec.	
Pickup/dropout delay	8 ms / 10 ms	
Chatter time	2 ms	
Maximum switching frequency	20 Hz	
Contact material	AgSnO ₂	
Minimum switchable voltage	24 V	
Minimum switchable current	5 mA	
Mechanical endurance	2 x 10 ⁷	
Electrical endurance 24 V DC / 2 A	6 x 10 ⁵	
Electrical endurance 230 V AC / 6 A	8 x 10 ⁴	
Rated voltage		
Isolation voltage of input/output	4 kV _{eff.}	
overvoltage category	III (according to HD 625.1S1)	
Degree of pollution	2 (according to HD 625.1S1)	
Ambient temperature	0 °C+50 °C	
Storage temperature	−40 °C+55 °C	
Protection type/mounting rail	IP 20 / TS35	
Norms/specifications	VDE 0160; VDE 0106 T101	
Emitted interference/interference immunity	EN 61000-6-3; EN 61000-6-2	
Wire range of screw terminal/spring clamp terminal	24 – 10 AWG / 24 – 12 AWG	
finely stranded	0.14 mm ² – 1.5 mm ²	
single core	0.5 mm ² – 2.5 mm ²	
Accessories		
Plug-in jumper ($U_{max} = 50 \text{ V}, I_{max} = 2 \text{ A}$)	Z8.000.0200.8	
8 digit marker tag, unmarked, 60 off	Z4.242.5153.0	

Relay modules Plug-in relays Flare MOVE Flare MOVE



Overall width: 6.2 mm plug-in relay, screw clamp

Dimensions (mm): W x H x D 6.2 x 88 x 76 Coil voltage 12 V DC / Output 250 V AC / 6 A /1 Changeover contact (SPDT)



Coil voltage 24 V DC/ Output 250 V AC / 6 A/1 Changeover contact (SPDT)

Operating voltage 12 V DC Relays c/w Base 24 V DC Relays c/w Base	AgSnO ₂ 80.010.4501.0	AgSnO ₂ + Au (5 μ)VPE 80.010.4501.1 10	AgSnO ₂ 80.010.4502.0	AgSnO ₂ + Au (5 μ) VPE
•	80.010.4501.0	80.010.4501.1 10	90.010.4502.0	00 010 4500 1 10
24 V DC Relays c/w Base		'	90.010.4502.0	00 010 4500 1 10
			00.010.4302.0	80.010.4502.1 10
Coil circuit (identical for both types of contact material)				
Nominal operating voltage	12 V DC	12 V AC/DC	24 V DC	24 V AC/DC
Maximum operating voltage	16.8 V DC	16.8 V DC	33.6 V DC	33.6 V DC
Minimum operating voltage	8.4 V DC	9.1 V DC	16.8 V DC	18.2 V DC
Nominal input current	15.2 mA	15.2 mA	9.4 mA	9.4 mA
Nominal input capacity AC/DC	0.2 W	0.25 VA	0.23 W	0.3 VA
Operating range	(0.72.2) U _N	(0.851.1) U _N	(0.72.2) U _N	(0.851.1) U _N
Connectable via plug-in jumper		20 modules		o 20 modules
Status display	LED () Green
Switching characteristics	AgSnO ₂	AgSnO ₂ + Au (5 μ)	AgSnO ₂	AgSnO ₂ + Au (5 μ)
Maximum switching voltage	400 V		400 V	
Nominal switching voltage	250 V		250 V	
Maximum switching current		6 A AC/DC		6 A AC/DC
Maximum switching capacity		1500 VA / 150 W		1500 VA / 150 W
Maximum starting current		30 A (0.5 sec.)		30 A (0,5 sec.)
Pickup/dropout delay (including chatter)	7 ms / 11	1	7 ms / 11	
Maximum switching frequency		load); 0,1 Hz (at full load)		oad); 0.1 Hz (at full load)
Contact material	AgSnO ₂	AgSnO ₂ + Au (5 μm)	AgSnO ₂	AgSnO ₂ + Au (5 μm)
Minimum switchable voltage	12 V AC/DC	5 V AC/DC	12 V AC/DC	5 V AC/DC
Minimum switchable current	10 mA AC/DC	2 mA AC/DC	10 mA AC/DC	2 mA AC/DC
Minimum switching capacity	500 mW	50 mW	500 mW	50 mW
Mechanical endurance	1 x 1		1 x	
Electrical endurance 230 V AC / 6 A	6 x ²		6 x 10 ⁴	
Rated voltage	250		250 V	
solation voltage of input/output	4 kV		4 _t kV _{eff}	
Overvoltage category		to HD 625.1S1)	III (according to HD 625.1S1)	
Degree of pollution		to HD 625.1S1)	2 (according to HD 625.1S1)	
Ambient temperature	0 °C+		0 ℃	
Storage temperature	-40 °C		−40 °C+55 °C	
Protection type/mounting rail	IP 20 / 7			IP 20 / TS35
Norms/specifications	207			
Vire range of screw terminal:	24 – 12 AWG		24 – 12 AWG	
finely stranded/single core		/ 0.5 mm ² –2.5 mm ²	0.14 mm ² –1.5 mm ² / 0.5 mm ² –2.5 mm ²	
, • • • • • • • • • • • • • • • • •				•
Accessories	Relay type	Part no. Std. pack	Relay-Type	Part no. Std. pack
Relay 12 V DC		80.063.4031.0 10	AgSnO ₂	80.063.4031.0 10
Relay 12 V DC	AgSnO ₂ + Au (5 μ)		AgSnO ₂ + Au (5 μ)	
Relay 24 V DC		80.063.4032.0 10	AgSnO ₂	80.063.4032.0 10
Relay 24 V DC	$AgSnO_2 + Au (5 \mu)$		AgSnO ₂ + Au (5 μ)	
,				
nsulating plate	IP SF38	80.063.4009.1	IP SF38	80.063.4009.1
Comb-shaped jumper, continuous current 36 A	KB SF38	80.063.4029.3	KB SF38	80.063.4029.3
Marker tag (plastic, white)	BZ SF38	80.063.4029.3	BZ SF38	80.063.4029.3
_abelling mat	BM SF38	80.063.4129.3	BM SF38	80.063.4129.3

flare Move



Overall width: 6.2 mm plug-in relay, screw clamp

Dimensions (mm): W x H x D $6.2 \times 88 \times 76$

Coil voltage 110 V AC/DC / Output 250 V AC / 6 A /1 Changeover contact (SPDT)



Coil voltage 230 V AC/DC/Output 250 V AC / 6 A/1 Changeover contact (SPDT)

AgSnO ₂ 80.010.4525.0	AgSnO ₂ + Au (5 μ) 80.010.4525.1	AgSnO ₂ 80.010.4526.0	AgSnO ₂ + Au (5 μ)	
80.010.4525.0	80.010.4525.1	80.010.4526.0	00 040 4500 4	
		80.010.4526.0	00.040.4500.4	
			80.010.4526.1	
110 V AC/D0		230 V AC/DC (50/60 Hz)		
	132 V AC		255 V AC	
			175 V AC	
		0,9 V		
	**		(0.851.1) U _N	
· ·			Up to 20 modules	
	AgSnO ₂ + Au (5 μ)	AgSnO ₂	AgSnO ₂ + Au (5 μ)	
250 V		250 \		
	6 A AC/DC		6 A AC/DC	
	1500 VA / 150 W		1500 VA / 150 W	
	30 A (0.5 sec.)		30 A (0.5 sec.)	
7 ms / 1	11 ms		7 ms / 11 ms	
20 Hz (withou	it load); 0.1 Hz (at full load)	20 Hz (withou	t load); 0.1 Hz (at full load)	
AgSnO ₂	AgSnO ₂ + Au (5 μm)	AgSnO ₂	AgSnO ₂ + Au (5 μm)	
12 V AC/DC	5 V AC/DC	12 V AC/DC	5 V AC/DC	
10 mA AC/DC	2 mA AC/DC	10 mA AC/DC	2 mA AC/DC	
500 mW	50 mW	500 mW	50 mW	
1 x 1	10 ⁷	1:	× 10 ⁷	
6 x 1	10 ⁴	6 :	x 10 ⁴	
250	V	2	50 V	
4 kV	eff.	4	1 kV _{eff.}	
III (according	to HD 625.1S1)	III (according to HD 625.1S1)		
2 (according	to HD 625.1S1)	2 (according to HD 625.1S1)		
0 °C+	+50 °C	0 °C+50 °C		
-40 °C	+55 °C	−40 °C+55 °C		
		IP 20 / TS35		
0.14 mm² – 1.5 mm	n ² / 0.5 mm ² – 2.5 mm ² 24 – 12 AWG	0.14 mm² – 1.5 mm	n² / 0.5 mm² – 2.5 mm² 24 – 12 AV	
Relay-Type	Part no. Std. pack	Relay-Type	Part no. Std. pack	
	· · · · · · · · · · · · · · · · · · ·		80.063.4034.0 10	
		-		
			80.063.4026.0 10	
IP SF38	80.063.4009.1	IP SF38	80.063.4009.1	
			80.063.4029.3	
			80.063.4029.3	
BM SF38	80.063.4129.3	BM SF38	80.063.4129.3	
	3.1 m. 0.6 W. (0.851. Up to 2 LED Gree AgSnO ₂ 400 V 250 V 7 ms / 7 20 Hz (without AgSnO ₂ 12 V AC/DC 10 mA AC/DC 500 mW 1 x 6 x 250 4 kV, III (according 2 (according 0 °C40 °C. IP 20 / 1P 20 /	400 V AC 250 V AC 6 A AC/DC 1500 VA / 150 W 30 A (0.5 sec.) 7 ms / 11 ms 20 Hz (without load); 0.1 Hz (at full load) AgSnO ₂ AgSnO ₂ + Au (5 μm) 12 V AC/DC 5 V AC/DC 10 mA AC/DC 500 mW 50 mW 1 x 10 ⁷ 6 x 10 ⁴ 250 V 4 kV _{eff} III (according to HD 625.1S1) 2 (according to HD 625.1S1) 0 °C+50 °C -40 °C+55 °C IP 20 / TS35 Relay-Type Part no. Std. pack AgSnO ₂ 80.063.4034.0 10 AgSnO ₂ 80.063.4034.1 10 AgSnO ₂ 80.063.4034.1 10 AgSnO ₂ 80.063.4026.1 10 IP SF38 80.063.4029.3 BZ SF38 80.063.4029.3 BZ SF38 80.063.4029.3 BZ SF38 80.063.4029.3	3.1 mA	

Relay modules flare



Overall width 6.2 mm For input/output seperation

Dimensions (mm): W x H x D 6.2 x 89 x 70

Isolating blade terminal relay (SPDT) Change over 1 contact Approvals: (1), CSA Hand-O-Auto relay (SPDT) 1 make contact Approvals: (1), CSA



Operating voltage	Screw terminal Spring-clamp Std. pack	Screw terminal Spring-clamp Std. pack	
12 V DC			
24 V DC			
12 V AC/DC			
24 V AC/DC	80.010.4120.0 10	80.010.4101.0 10	
115 V AC			
230 V AC			
Wiring diagram, derating curve, limit curve	See pages 464-465	See pages 464-465	
Coil circuit			
Operating voltage	UB +25 %/-20 %	UB +25 %/-20 %	
Nominal input current	ca. 14 mA	ca. 14 mA	
Nominal input capacity	ca. 0.35 W	ca. 0.35 W	
Holding current at 20 °C	> 1.2 mA	> 1.2 mA	
Connectable via plug-in jumper	Up to 50 modules	Up to 50 modules	
Status display	LED Green	LED Green	
Switching characteristics			
Maximum switching voltage	250 V AC / 300 V DC	250 V AC / 300 V DC	
Maximum switching current	6 A AC / 2 A DC	6 A AC / 2 A DC	
Maximum switching capacity	1500 VA / 48 W	1500 VA / 48 W	
Maximum starting current	10 A; 4 sec.	10 A; 4 sec.	
Pickup/dropout delay	8 ms / 10 ms	8 ms / 10 ms	
Chatter time	2 ms	2 ms	
Maximum switching frequency	20 Hz	20 Hz	
Contact material	AgSnO ₂	AgSnO ₂	
Minimum switchable voltage	12 V	12 V	
Minimum switchable current	5 mA	5 mA	
Mechanical endurance	2 x 10 ⁷	2 x 10 ⁷	
Electrical endurance 24 V DC / 2 A	6 x 10 ⁵	6 x 10 ⁵	
Electrical endurance 230 V AC / 6 A	8 x 10 ⁴	8 x 10 ⁴	
Rated voltage			
Isolation voltage of input/output	4 kV _{eff.}	4 kV _{eff}	
Overvoltage category	III (according to HD 625.1S1)	III (according to HD 625.1S1)	
Degree of pollution	2 (according to HD 625.1S1)	2 (according to HD 625.1S1)	
Ambient temperature	0 °C+50 °C	0 °C+50 °C	
Storage temperature	-40 °C+55 °C	-40 °C+55 °C	
Protection type/mounting rail	IP 20 / TS35	IP 20 /TS35	
Norms/specifications	VDE 0160; VDE 0106 T101	VDE 0160; VDE 0106 T101	
Emitted interference/interference immunity	EN 61000-6-3; EN 61000-6-2	EN 61000-6-3; EN 61000-6-2	
Wire range of screw terminal	-	-	
Wire range of spring clamp terminal	24 – 12 AWG	24 – 12 AWG	
finely stranded	0.14 mm ² – 1.5 mm ²	0.14 mm ² – 1.5 mm ²	
single core	0.5 mm ² – 2.5 mm ²	0.5 mm ² – 2.5 mm ²	
5g.5 0010	5.5 mm 2.5 mm	2.0 11111	
CSA EX approval in range	Class I, Division 2, Groups A, B, C and D, T6	Class I, Division 2, Groups A, B, C and D, T6	
Accessories			
Plug-in jumper (U _{max.} = 50 V, I _{max.} = 2 A)	Z8.000.0200.8	Z8.000.0200.8	
8 digit marker tag, unmarked, 60 off	Z8.000.0200.8 Z4.242.5153.0	Z8.000.0200.8 Z4.242.5153.0	
Comb for potential distribution, red/blue	Z4.242.5153.0 Z8.000.0202.3 / Z8.000.0202.4	Z4.242.5153.0 Z8.000.0202.3 / Z8.000.0202.4	
	·	· · · · · · · · · · · · · · · · · · ·	
End caps for comb, red/blue	Z8.000.0202.1 / Z8.000.0202.2	Z8.000.0202.1 / Z8.000.0202.2	

Relay modules Operating voltage: 24 V / 48 V





250 V AC / 125 V DC, 3 A (SPST, N.O.) 1 Make contact

We will also a second and a sec

250 V AC / 250 V DC, 5 A (SPDT) 1 Changeover contact Approvals:

Approvals: 22.5 x 58 x 90.5

Dimensions (mm): W x H x D

Overall width 20mm & 22.5mm

Screw clamp

0	T Don't Cold I	Torra Donton Cold I
Operating voltage	Type Part no. Std. pack	Type Part no. Std. pack
24 V AC/DC	WEG-REL-1S-250V3A 57.800.0053.0 1	WEG-REL-1W-250V5A 57.800.5053.0 1
48 V AC/DC		WEG-REL-1W-250V5A 57.800.5053.0 1
445.1/ 40/00		
115 V AC/DC		
230 V AC		
Military discussed describes a service black assess	0	0
Wiring diagram, derating curve, limit curve Coil circuit	See pages 466-467	See pages 466-467
	22 V AC/DC	24 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Operating voltage Nominal input current	22 MA AC / 14 mA DC	24 V AC/DC ±10%
•	0.54 VA / 0.34 W	
Nominal input capacity	·	0.65 VA / 0,4 W
Holding current at 20 °C	5.5 mA AC / 2.6 mA DC	7.4 mA AC / 3.5 mA DC 5.7 mA AC / 3.5 mA DC
Switching characteristics	050 V 40 (405 V DOI)	0501/40/0501/001
Maximum switching voltage	250 V AC / 125 V DC ¹⁾	250 V AC / 250 V DC ¹⁾
Maximum starting current	3 A AC/DC ¹⁾	5 A AC/DC ¹⁾
Maximum switching capacity	1200 V A / 120 W ¹⁾	2000 V A / 100 W ¹⁾
Maximum continous current	16 A (25 ms)	16 A AC (max. 4 s, 10% ED)
Pickup/dropout delay approx.	8.5 ms / 16 ms	9.4 ms / 17.6 ms
Chatter time	2 ms	3 ms
Maximum switching frequency		
Contact material	AgNi 0,15 + 1 μ Au	AgNi 0.15 + 0.2 μ Au
Minimum switchable voltage	80 mV	12 V DC
Minimum switchable current	50 μA	10 mA
Mechanical endurance	> 20 x 10 ⁶	> 20 x 10 ⁶
Electrical endurance at 24 V DC / 1 A	> 6 x 10 ⁵	> 6 x 10 ⁶
Electrical endurance at 230 V AC / 3 A	> 1 x 10 ⁵	> 7 x 10 ⁵
Rated voltage		
Isolation voltage of input/output	2 kV _{eff.}	2 kV _{eff.}
Overvoltage category	. 000	011.
Degree of pollution		
Ambient temperature	-25 °CDerating	-25 °CDerating
Storage temperature	-40 °C+85°C	-40 °C+85°C
Protection type/mounting rail	IP 20/TS 32 or TS35	IP 20/TS 32 or TS 35
Norms/specifications		
Emitted interference/interference immunity		
Wire range, finely stranded/single core	0.14 mm ² – 4 mm ² / 0.14 mm ² – 6 mm ² / 20 – 10 AWG	0.14 mm ² – 4 mm ² / 0.14 mm ² – 6 mm ² / 20 – 10 AWG
Location of mounting rail	horizontal	horizontal
2000.0.1 of mounting full	TIONEON TO	TOTAL STREET
Accessories		
1) see limit curve on page 465		
See minic curve on page 400		

WEG



Overall width 22.5mm Screw clamp

250 V AC / 250 V DC 4 A (DPDT) 2 Changeover contact

Approvals: 22.5 x 58 x 90.5

Dimensions (mm): W x H x D

Operating voltage	Type Part no. Std. pack	
24 V AC/DC	WEG-REL-2W-250V5A 57.800.7053.0 1	
48 V AC/DC		
·		
115 V AC/DC		
230 V AC		
Wiring diagram, derating curve, limit curve	See pages 466-467	
Coil circuit		
Operating voltage	22 V AC/DC	
Nominal input current	31 mA AC / 29 mA DC	
Nominal input capacity	0.75 VA / 0.7 W	
Holding current at 20 °C	4.7 mA AC / 3.6 mA DC	
Switching characteristics		
Maximum switching voltage	250 V AC / 250 V DC ¹⁾	
Maximum starting current	4 A AC/DC ¹⁾	
Maximum switching capacity	1100 V A / 140 W ¹⁾	
Maximum continous current	15 A AC (200 ms)	
Pickup/dropout delay approx.	16 ms / 20 ms	
Chatter time	3 ms	
Maximum switching frequency		
Contact material	AgCu ₃ + 0,2 μ Au	
Minimum switchable voltage	12 V DC	
Minimum switchable current	10 mA	
Mechanical endurance	> 3 x 10 ⁷	
Electrical endurance at 24 V DC / 1 A	> 2 x 10 ⁶	
Electrical endurance at 230 V AC / 3 A	> 6 x 10 ⁵	
Rated voltage		
Isolation voltage of input/output	2 kV _{eff.}	
Overvoltage category		
Degree of pollution		
Ambient temperature	-25 °CDerating	
Storage temperature	-40 °C+85 °C	
Protection type/mounting rail	IP 20/TS 32 or TS 35	
Norms/specifications		
Emitted interference/interference immunity		
Wire range, finely stranded/single core	0.14 mm ² – 4 mm ² / 0.14 mm ² – 6 mm ² / 20 – 10 AWG	
Location of mounting rail	horizontal	
Accessories		
1) see limit curve on page 465		

Relay modules Operating voltage: 115 V / 230 V





250 V AC / 125 V DC, 1 A (SPDT, N.O.) 1 Make contact William State of the state of t

250 V AC / 250 V DC, 3 A (SPDT) 1 Changeover contact

Approvals: 20 x 58 x 90.5

Dimensions (mm): W x H x D

Overall width 20mm Screw clamp

Operating voltage	Type	Part no. Sto	. pack	Туре	Part no. Std. pack
115 V AC/DC				WEG-DUO-1W-250V3A	57.800.5153.0 1
230 V AC	WEG-230-1S-250V1A	57.800.0353.0	1	WEG-DUO-1W-250V3A	57.800.5153.0 1
Wiring diagram, derating curve, limit curve	See pages 466-46	57		See pages 466-467	
Coil circuit					
Operating voltage	UB +6 %/-10 %			· · · · · · · · · · · · · · · · · · ·	% 230 V AC/DC +6 %/-10 %
Nominal input current	14 mA AC			12 mA AC/DC	10 mA AC/DC
Nominal input capacity	3.2 VA			1.3 VA / 1.3 W	2.3 V A / 2.3 W
Holding current at 20°C	4.4 mA AC			2.8 mA AC / 2.4 mA DC	3.6 mA AC / 2.6 mA DC
Switching characteristics					
Maximum switching voltage	250 V AC / 125 V D)C1)		250 V AC / 250 V DC	1)
Maximum starting current	1 A AC/DC ¹⁾			3 A AC/DC1)	
Maximum switching capacity	1200 V A / 120 W ¹⁾			2000 V A / 100 W ¹⁾	
Maximum continous current	16 A (25 ms)			16 A AC (max. 4 s, 1	0% ED)
Pickup/dropout delay approx.	5.5 ms / 8.2 ms			12 ms / 8 ms	
Chatter time	2 ms			3 ms	
Maximum switching frequency					
Contact material	AgNi 0,15 + 1 μ Au	l		AgNi 0.15 + 0.2 μ Αι	1
Minimum switchable voltage	80 mV			12 V DC	
Minimum switchable current	50 μA			10 mA	
Mechanical endurance	> 20 x 10 ⁶			> 20 x 10 ⁶	
Electrical endurance at 24 V DC / 1 A	> 6 x 10 ⁵			> 6 x 10 ⁶	
Electrical endurance at 230 V AC / 3 A	> 1 x 10 ⁵			> 7 x 10 ⁵	
Rated voltage					
Isolation voltage of input/output	2 kV _{eff.}			2 kV _{eff.}	
Overvoltage category					
Degree of pollution					
Ambient temperature	-25 °CDerating			-25 °CDerating	
Storage temperature	-40 °C+85 °C			-40 °C+85 °C	
Protection type/mounting rail					
Norms/specifications	IP 20/TS 32 or TS 3	35		IP 20/TS 32 or TS 35	
Emitted interference/interference immunity					
Wire range, finely stranded/single core	0.14 mm ² – 4 mm ²	/ 0.14 mm ² – 6 mm	² / 20 – 10 AWG	0.14 mm ² – 4 mm ² / 0	0.14 mm ² - 6 mm ² / 20 - 10 AWG
Location of mounting rail	horizontal			horizontal	
Accessories					
1) see limit curve on page 465					

Relay modules for current signals – 4...20 mA – 0...20 mA

Current relay T relay



Overall width 22.5mm Screw clamp

380 V AC / 125 V DC 7 A (SPDT) 1 Changeover contact

Approvals: (1), CSA 22.5 x 58 x 90.5

Dimensions (mm): W x H x D

Description	Type Part no. Std. pack	
0-20mA Trip Amplifier Relay	SR 420 mA 57.802.3053.0 1	
1 set point		
Wiring diagram	See page 468	
Coil circuit		
Operating voltage with filtering	9,5 V40 V	
Operating voltage without filtering	8 V27 V	
Nominal input current at 40 V		
	with relay off ca. 7 mA	
	with relay on ca. 35 mA	
Current input R, 100 Ω (max. 7 V)	420 mA	
Switching threshold (adjusted with potentiometer)	220 mA	
Residual ripple I _{max} at measured current 22 mA	5 mA _{ss} / 5 mA _{pp}	
Residual ripple I _{max.} at measured current 2 mA	0.5 mA _{SS} / 0.5 mA _{pp}	
Switching hysteresis	ca. 0.4 mA	
Owntowing Hyptoresis	Cu. U.4 IIIA	
Switching characteristics		
<u> </u>	200 V AC / 125 V DC	
Maximum switching voltage	380 V AC / 125 V DC	
Maximum switching current	7 A	
Maximum switching capacity	1750 V A / 210 W	
Permitted minimum load	5 V DC / 10 mA	
Nominal current load	250 V AC, 7 A / 30 V DC, 7 A	
Isolation voltage of input/output	250 V _{eff.}	
Isolation voltage of terminal TS	2 kV _{eff.}	
Overvoltage category	III	
Degree of pollution	2	
Ambient temperature, connected in series without intervals	0 °C50 °C	
Ambient temperature, connected in series with interval of 2 cm	0 °C00 °C	
Storage temperature	−40 °C+85 °C	
Protection type/mounting rail	IP 20/TS 35	
Norms/specifications		
Location of mounting rail	horizontal	
Wire range	20 – 10 AWG	
Accessories		



Relay output modules

Dimensions (mm): W x H x D

- 1 relay
- 4 relay
- 8 relay
- 16 relay



250 V AC / 24 V DC 5 A (SPDT) 1 Changeover contact

Approvals: 12.5 x 80 x 58.3



250 V AC / 24 V DC 5 A (SPDT) 1 Changeover contact

Approvals: 70/128/280 x 80 x 71

Description	Type Part no. Std. pack	Type Part no. Std. pack
1 relay	R12-12V-1W-250V5A 87.220.7553.0 10	
4 relay positive switching		RAB-SS 4 87.220.1853.0 1
8 relay positive switching		RAB-FSS 8 87.220.1953.3 1
16 relay positive switching		RAB-FSS 16 87.220.2253.3 1
4 relay negative switching		RAB-SS 4 M 87.221.5553.0 1
Wiring diagram, derating curve, limit curve	See page 469	See page 469
Coil circuit		
Operating voltage	12 V AC/DC ±10%	24 V DC +10%/-15%
Nominal input current per input	34 mA	25 mA
Nominal power consumption	0.4 W	0.6 W
Holding current at 20 °C	> 3.5 mA	> 2 mA
Status display	LED Green	LED Green
Switching characteristics		
Maximum switching voltage	250 V AC / ¹)V DC	250 V AC / ¹)V DC
Maximum switching current	8 A AC/ "A DC	8 A AC/ "A DC
Maximum switching capacity	2000 VA / 120 W	2000 VA / 120 W
Maximum continous current	5 A AC/DC ¹⁾	5 A AC/DC ¹⁾
Pickup/dropout delay approx	9 ms / 12 ms	9 ms / 12 ms
Chatter time	4 ms	4 ms
Maximum switching frequency	4 1115 40 Hz	40 Hz
Contact material	AgCdO	
	12 V	AgCdO 12 V
Minimum switchable voltage		
Minimum switchable current	100 mA	100 mA
Mechanical endurance	3 x 10 ⁷	3 x 10 ⁷
Electrical endurance at 24 V DC / 5 A	6 x 10 ⁵	6 x 10 ⁵
Electrical endurance at 230 V AC / 5 A	6 x 10 ⁵	6 x 10 ⁵
Rated voltage		
Isolation voltage of input/output	4 kV _{eff.}	4 kV _{eff.}
Overvoltage category		
Degree of pollution		
Ambient temperature	–25 °CDerating	–25 °CDerating
Storage temperature	−40 °C+85 °C	−40 °C+85 °C
Mounting rail	TS 32 or TS 35	TS 32 or TS 35
Norms/specifications		
Emitted interference/interference immunity		
Wire range, finely stranded/single core	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AWG	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AW0
Location of mounting rail	horizontal	horizontal
Accessories		
Replacement relay		Z8.000.0056.9 10
1) See limit curve on page 465		
. 5		
		1



Relay output modules

- 1 relay
- 4 relay
- 8 relay
- 16 relay



Important note for user: In the case of multiple modules (1 changeover contact/2 changeover contacts), the outputs must be supplied from the same phase (e.g. L1)

250 V AC / 24 V DC, 5 A (DPDT) 2 Changeover contacts

Approvals: 70/128 x 80 x 71

Dimensions (mm): W x H x D

imensions (mm): W x H x D	70/128 x 80 x 71	
Description	Type Part no. Std. pack	
1 relay		
4 relay positive switching	RAB-SS 4/2 87.220.4753.3 1	
8 relay positive switching	RAB-SS 8/2 87.220.4853.3 1	
6 relay positive switching		
4 relay negative switching		
,		
Wiring diagram, derating curve, limit curve	See page 469	
Coil circuit		
Operating voltage	24 V DC + 10 %/- 15 %	
Nominal input current	25 mA	
Nominal power consumption	0.6 W	
Holding current at 20 °C	> 2 mA	
Status display	LED Green	
Switching characteristics		
Maximum switching voltage	250 V AC / ¹)V DC	
Maximum switching current	8 A AC/¹¹A DC	
Maximum switching capacity	2000 VA / 120 W	
Maximum continuous current	5 A AC/DC ¹⁾	
Pickup/dropout delay approx.	9 ms / 12 ms	
Chatter time	4 ms	
Maximum switching frequency	40 Hz	
Contact material	AgCdO	
Minimum switchable voltage	12 V	
Minimum switchable current	100 mA	
Mechanical endurance	3 x 10 ⁷	
Electrical endurance at 24 V DC / 5 A	6 x 10 ⁵	
Electrical endurance at 230 V AC / 5 A	6 x 10 ⁵	
Rated voltage	0 X 10°	
Isolation voltage of input/output	4 kV _{eff.}	_
Overvoltage category	4 KV _{eff.}	
Degree of pollution		
Ambient temperature	QE 9C Devoting	
· · · · · · · · · · · · · · · · · · ·	-25 °CDerating	
Storage temperature	-40 °C+85 °C TS 32 or TS 35	
Mounting rail	15 32 OF 15 35	
Norms/specifications		
Emitted interference/interference immunity	05 2 05 2 05 2 4 2 05 10 100	
Wire range, finely stranded/single-core	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AWG	
Location of mounting rail	horizontal	
Accessories		
Replacement relay	Z8.000.0035.5 10	
¹⁾ See limit curve on page 465		



Relay modules input/output

- 1 relay
- 4 relay
- 8 relay



250 V AC / 24 V DC 4 A (SPDT) 1 Changeover contact

Approvals: 12.5 x 80 x 70



250 V AC / 24 V DC 4 A (SPDT) 1 Changeover contact

Approvals: 70/128 x 80 x 71

Dimensions	(mm):	VV	Х	Н	Х	D	

Description	Type Part no. Std. pack	Type Part no. Std. pack
1 relay	WR1-230-1W-250V4A 80.010.0011.0 10	
4 relay		WR4-115-1W-250V4A 80.010.1102.0 1
8 relay		WR8-115-1W-250V4A 80.010.1110.0 1
Wiring diagram, derating curve, limit curve	See pages 470-471	See pages 470-471
Coil circuit		
Operating voltage	230 V AC +6% / -10%	115 V AC +6% /-10%
Nominal input current per input	ca. 4.5 mA AC	ca. 8.5 mA AC/DC
Nominal power consumption	ca. 1.0 VA	ca. 0.95 VA/W
Holding current at 20 °C	> 0.9 mA AC	> 1.3 mA AC / > 1.0 mA DC
Suppression circuit for input	polarised diode, suppressor diode	polarised diode, suppressor diode
Status display	LED Green	LED Green
Switching characteristics		
Maximum switching voltage	250 V AC/ ¹/V DC	250 V AC / ¹)V DC
Maximum switching current	8 A AC/¹¹A DC	8 A AC/"A DC
Maximum switching capacity	2000 VA /192 W	2000 VA / 192 W
Maximum continuous current	4 A AC/DC	4 A AC/DC
Pickup/dropout delay approx.	10 ms /15 ms	12 ms / 13 ms
Chatter time	4 ms	4,5 ms
Maximum switching frequency	40 Hz	40 Hz
Contact material	AgNi + 46 μ Au	AgNi 0.15 + 0.2 μ Au
Minimum switchable voltage	μV	5 V
Minimum switchable current	μA	10 mA
Mechanical endurance	3 x 10 ⁷	3 x 10 ⁷
Electrical endurance at 24 V DC / 4 A	3 x 10 ⁵	3 x 10 ⁵
Electrical endurance at 24 V DC / 4 A Electrical endurance at 230 V AC / 4 A	3 x 10 ⁵	3 x 10⁵
Rated voltage	3 X 10	3 x 10
Isolation voltage of input/output	4 kV _{off}	4 kV _{off}
	4 KV _{eff.}	4 KV _{eff.}
Overvoltage category		
Degree of pollution	05.00 D /	05.00 50.00
Ambient temperature	-25 °CDerating	-25 °C+50 °C
Storage temperature	-40 °C+80 °C	-40 °C+80 °C
Mounting rail	TS 32 or TS 35	TS 32 or TS 35
Norms/specifications		
Emitted interference/interference immunity		
Wire range, finely stranded/single-core	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AWG	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AW0
eocation of mounting rail	horizontal	horizontal
Accessories		
Replacement relay		Z8.000.0181.0 10
¹⁾ See limit curve on page 465		
		1



Relay module input/output

- 1 relay
- 4 relay
- 8 relay



250 V AC / 24 V DC 4 A (SPDT) 1 Changeover contact

Approvals: 70/128 x 80 x71

Dimensions (mm): W x H x D

relay WR4-230-IW-250V4A 80.010.1106.0 1 relay WR8-230-IW-250V4A 80.010.1114.0 1 WR8-230-IW-250W4A 80.010.1114.0 1 WR8-230-IW-250W4A 80.010.1114.0 1 WR8-230-IW-250W4 8	Description	Type Part no. Std. pack	
Wifing diagram, derating curve, limit curve See pages 470-471 Fool circuit See pages 470-471 Fool direcuit See pages 470-470 Fool direcuit See pages 470-471 Fool direcuit See pages 470-470 Fool direcuit F	1 relay		
Wifing diagram, derating curve, limit curve See pages 470-471 Foil circuit See pages 470-471 See pages 470-471 See pages 470-670 See pages 470-471 See pages 470-670 See pages 470-671 See pages	4 relay	WR4-230-1W-250V4A 80.010.1106.0 1	
perating voltage	8 relay		
perating voltage			
perating voltage			
perating voltage			
Apprenting voltage 230 V AC/DC +6%/-10% approx. 4.5 mA AC/DC bornial power consumption approx. 2.10 VAWW lolding current at 20 °C 20.7 mA AC /> 0.5 mA DC polarised diode, suppressor diode teD Green LED Green LED Green Asximum switching voltage Asximum switching voltage Asximum switching capacity Asximum switching frequency ADI 12 ms / 13 ms Asximum switching frequency ADI 15 + 0.2 µ Au Asximum switchable current AgNi 0.15 + 0.2 µ Au Asximum switchable current Agni 0.15 + 0.2 µ Au Asxim switchable current Agni 0.15 + 0.2 µ Au Asximum switchable cu	Wiring diagram, derating curve, limit curve	See pages 470-471	
Iominal input current per input approx. 4.5 mA AC/DC approx. 1.0 VAM approx	Coil circuit		
Iominal input current per input approx. 4.5 mA AC/DC approx. 1.0 VAM approx	Operating voltage	230 V AC/DC +6%/-10%	
Solding current at 20 °C > 0.7 mA AC / > 0.5 mA DC	Nominal input current per input	approx. 4.5 mA AC/DC	
polarised diode, suppressor diode tatus display LED Green Maximum switching voltage Asximum switching current Asximum switching capacity Asximum switching fequency Asximum switching frequency Asximum switching frequency Asximum switching frequency And Hz Asximum switching frequency And Hz Asximum switchable voltage 5 V Alimimum switchable current AgNi 0.15 + 0.2 μ Au AgNi 0.15 + 0.2 μ Au Agni 0.16 μ	Nominal power consumption	approx. 1.0 VA/W	
LED Green witching characteristics Aaximum switching voltage Aaximum switching current 8 A A C / "A D C Aaximum switching capacity 2000 VA / 192 WV Aaximum continuous current 4 A A C/DC fickup/dropout delay approx. 12 ms / 13 ms chatter time 4.5 ms Aaximum switching frequency Aaximum switching frequency 40 Hz AgNi 0.15 + 0.2 μ Au Ag	Holding current at 20 °C	> 0.7 mA AC / > 0.5 mA DC	
LED Green witching characteristics Aaximum switching voltage Aaximum switching current 8 A A C / "A D C Aaximum switching capacity 2000 VA / 192 WV Aaximum continuous current 4 A A C/DC fickup/dropout delay approx. 12 ms / 13 ms chatter time 4.5 ms Aaximum switching frequency Aaximum switching frequency 40 Hz AgNi 0.15 + 0.2 μ Au Ag	Suppression circuit for input	polarised diode, suppressor diode	
Maximum switching voltage 250 V AC / "V DC Maximum switching current 8 A AC / "A DC Maximum switching capacity 2000 VA / 192 W Maximum continuous current 4 A AC/DC fickup/dropout delay approx. 12 ms / 13 ms Maximum switching frequency Maximum switching frequency Maximum switching frequency Maximum switching frequency Maximum switchable voltage 5 V Minimum switchable voltage 5 V Minimum switchable current 10 mA Mechanical endurance 3 x 10° Mectrical endurance at 24 V DC / 4 A 3 x 10° Material voltage of input/output 4 kV _{eff} . Movervoltage at group for pollution Mounting rail TS 32 or TS 35 Mounting rail More area (9,5 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG Morizontal More area (10 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG Morizontal More area (10 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG Morizontal More area (10 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG Morizontal More area (10 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG Morizontal More area (10 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG Morizontal More area (10 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG Morizontal More area (10 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG Morizontal	Status display	LED Green	
Maximum switching current 8 A A C / "A DC Maximum switching capacity 2000 VA / 192 W 4 A AC/DC Maximum continuous current 4 A A C/DC Maximum switching approx. 12 ms / 13 ms Maximum switching frequency 40 Hz Maximum switching frequency Minimum switchable voltage 5 V Minimum switchable voltage Minimum switchable current 10 mA Mechanical endurance 3 x 10° Mectrical endurance at 24 V DC / 4 A 3 x 10° Material endurance at 230 V AC / 4 A 3 x 10° Material endurance at 230 V AC / 4 A Maximum switchable current 4 kV _{eff} . Movervoltage of input/output 4 kV _{eff} . Movervoltage category Movergree of pollution mibient temperature -25 °C+50 °C -40 °C+80 °C Mounting rail TS 32 or TS 35 Mounting rail More arge, finely stranded/single-core 0,5 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG Morizontal Moreseries Maximum switchable varient 4 A AC/DC 4 A A C/DC 4 A A C/DC 4 A A C/DC 4 A A S T 13 ms 4 Uses Maximum switchable varient 4 kV _{eff} . Mounting rail Moreserifications Minited interference/interference immunity More range, finely stranded/single-core 0,5 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG Morizontal Maximum switchable varient A A AC/DC 4 A AC/DC 4 A A C/DC 4 A A C/DC 4 D A A C T B D A A B D A D A D A D A D A D A D A D	Switching characteristics		
Maximum switching current 8 A A C / "A DC Maximum switching capacity 2000 VA / 192 W 4 A AC/DC Maximum continuous current 4 A A C/DC Maximum switching approx. 12 ms / 13 ms Maximum switching frequency 40 Hz Maximum switching frequency Minimum switchable voltage 5 V Minimum switchable voltage Minimum switchable current 10 mA Mechanical endurance 3 x 10° Mectrical endurance at 24 V DC / 4 A 3 x 10° Material endurance at 230 V AC / 4 A 3 x 10° Material endurance at 230 V AC / 4 A Maximum switchable current 4 kV _{eff} . Movervoltage of input/output 4 kV _{eff} . Movervoltage category Movergree of pollution mibient temperature -25 °C+50 °C -40 °C+80 °C Mounting rail TS 32 or TS 35 Mounting rail More arge, finely stranded/single-core 0,5 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG Morizontal Moreseries Maximum switchable varient 4 A AC/DC 4 A A C/DC 4 A A C/DC 4 A A C/DC 4 A A S T 13 ms 4 Uses Maximum switchable varient 4 kV _{eff} . Mounting rail Moreserifications Minited interference/interference immunity More range, finely stranded/single-core 0,5 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG Morizontal Maximum switchable varient A A AC/DC 4 A AC/DC 4 A A C/DC 4 A A C/DC 4 D A A C T B D A A B D A D A D A D A D A D A D A D	Maximum switching voltage	250 V AC / ¹¹V DC	
Maximum continuous current dekup/dropout delay approx. 12 ms / 13 ms detert time 4.5 ms Asximum switching frequency Alonated material AgNi 0.15 + 0.2 µ Au Alonated material Agni 0.15 + 0.2 µ A	Maximum switching current	8 A AC / ¹⁾ A DC	
Maximum continuous current dekup/dropout delay approx. 12 ms / 13 ms detert time 4.5 ms Asximum switching frequency Alonated material AgNi 0.15 + 0.2 µ Au Alonated material Agni 0.15 + 0.2 µ A	Maximum switching capacity	2000 VA / 192 W	
Chatter time Asximum switching frequency AgNi 0.15 + 0.2 µ Au Agni 0.15 + 0.2 µ Au Agnimum switchable voltage 5 V Alimimum switchable current Agnimum switchable current 10 mA Alectanical endurance 3 x 10° Alectrical endurance at 24 V DC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Alectrical endurance at 24 V DC / 4 A 3	Maximum continuous current	4 A AC/DC	
Maximum switching frequency AgNi 0.15 + 0.2 µ Au Agnimum switchable voltage 5 V Agnimum switchable current 10 mA Agenarical endurance 3 x 10 ⁷ Agriculturance at 24 V DC / 4 A 3 x 10 ⁸ Agriculturance at 230 V AC / 4 A 3 x 10 ⁸ Agriculturance at 230 V AC / 4 A 3 x 10 ⁸ Agriculturance at 230 V AC / 4 A 3 x 10 ⁸ Agriculturance at 230 V AC / 4 A 3 x 10 ⁸ Agriculturance at 230 V AC / 4 A 3 x 10 ⁸ Agriculturance at 230 V AC / 4 A 3 x 10 ⁸ Agriculturance at 230 V AC / 4 A 3 x 10 ⁸ Agriculturance at 230 V AC / 4 A 3 x 10 ⁸ Agriculturance at 230 V AC / 4 A 3 x 10 ⁸ Agriculturance at 230 V AC / 4 A 3 x 10 ⁸ Agriculturance at 230 V AC / 4 A 3 x 10 ⁸ Agriculturance at 230 V AC / 4 A 3 x 10 ⁸ Agriculturance at 230 V AC / 4 A 3 x 10 ⁸ Agriculturance at 24 V DC / 4 A 3 x 10 ⁸ Agriculturance at 24 V DC / 4 A 3 x 10 ⁸ Agriculturance at 24 V DC / 4 A 3 x 10 ⁸ Agriculturance at 24 V DC / 4 A 3 x 10 ⁸ Agriculturance at 24 V DC / 4 A 3 x 10 ⁸ Agriculturance at 24 V DC / 4 A 3 x 10 ⁸ Agriculturance at 24 V DC / 4 A 3 x 10 ⁸ Agriculturance at 26 V C+80 °C Agriculturance at 27 V C+80 °C Agriculturance at 28 V C+80 °C Agriculturance at 28 V C+80 °C Agriculturance at 28 V C+80 °C Agriculturance at 29 V AC / 4 A 3 x 10 ⁸ Agriculturance at 29 V AC / 4 A 3 x 10 ⁸ Agriculturance at 29 V AC / 4 A 3 x 10 ⁸ Agriculturance at 29 V AC / 4 A Agriculturance at	Pickup/dropout delay approx.	12 ms / 13 ms	
AgNi 0.15 + 0.2 µ Au Minimum switchable voltage Minimum switchable current 10 mA As 10° Alectrical endurance at 24 V DC / 4 A As 10° Alectrical endurance at 230 V AC / 4 A As 10° As	Chatter time	4.5 ms	
Alinimum switchable voltage Alinimum switchable current Alechanical endurance 3 x 10² Alectrical endurance at 24 V DC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Alectrical endurance at 230 V AC / 4 A 3 x 10° Aleted voltage Aleted voltage of input/output 4 kV _{eff} . Alevervoltage category Alegree of pollution Ambient temperature -25 °C+50 °C -40 °C+80 °C Alounting rail TS 32 or TS 35 Alounting rail Alorms/specifications Ambient terference/interference immunity Vire range, finely stranded/single-core ocation of mounting rail Accessories teplacement relay Z8.000.0181.0 10	Maximum switching frequency	40 Hz	
Alinimum switchable current Alechanical endurance Alectrical endurance at 24 V DC / 4 A Blectrical endurance at 230 V AC / 4 A Blectrical endurance at 230 V AC / 4 A Blectrical endurance at 230 V AC / 4 A Blectrical endurance at 230 V AC / 4 A Blectrical endurance at 230 V AC / 4 A Blectrical endurance at 230 V AC / 4 A Blectrical endurance at 230 V AC / 4 A Blectrical endurance at 24 V DC / 4 A Blectrical endurance at 250 V AC / 4 A Blectrical endurance at 250 V AC / 4 A Blectrical endurance at 250 V AC / 4 A Blectrical endurance at 250 V AC / 4 A Blectrical endurance at 250 V AC / 4 A Blectrical endurance at 250 V AC / 4 A Blettrical endurance at 250 V AC / 4 A Blettrical endurance at 250 V AC / 4 A Blettrical endurance at 250 V AC / 4 A Blettrical endurance at 250 V AC / 4 A Blettrical endurance at 250 V AC / 4 A Blettrical endurance at 250 V AC / 4 A Blettrical endurance at 250 V AC / 4 A Blettrical endurance at 250 V AC / 4 A Blettrical endurance at 250 V AC / 4 A Blettrical endurance a	Contact material	AgNi 0.15 + 0.2 μ Au	
Alechanical endurance 3 x 107 Alectrical endurance at 24 V DC / 4 A 3 x 105 Alectrical endurance at 230 V AC / 4 A 3 x 105 Aleted voltage Solation voltage of input/output 4 kV _{eff} Avervoltage category Averge of pollution Archiver temperature -25 °C+50 °C -40 °C+80 °C Avounting rail TS 32 or TS 35 Avorms/specifications Avinited interference/interference immunity Avire range, finely stranded/single-core ocation of mounting rail Average Avera	Minimum switchable voltage		
Electrical endurance at 24 V DC / 4 A 3 x 10 ⁵ Electrical endurance at 230 V AC / 4 A 5 x 10 ⁵ Electrical endurance at 230 V AC / 4 A 5 x 10 ⁵ Electrical endurance at 230 V AC / 4 A 5 x 10 ⁵ Electrical endurance at 230 V AC / 4 A 5 x 10 ⁵ Electrical endurance at 230 V AC / 4 A 5 x 10 ⁵ Electrical endurance at 230 V AC / 4 A 5 x 10 ⁵ Electrical endurance at 24 V Electrical endurance at 24 V Electrical endurance at 25 V Electrical endurance at 24 V Electrical endurance at 25 V Electrical endurance at 24 V Electrical endurance at 25 V El	Minimum switchable current	10 mA	
A stated voltage Solation voltage of input/output A kV _{eff.} Sola	Mechanical endurance	3 x 10 ⁷	
Asked voltage of input/output 4 kV _{eff.} Everyoltage category Degree of pollution Ambient temperature Coveryoltage temperature Coveryoltage temperature Coveryoltage temperature Coveryoltage of pollution Coveryoltage Coveryoltage of pollution Coveryoltag	Electrical endurance at 24 V DC / 4 A	3 x 10⁵	
solation voltage of input/output 4 kV _{eff.} Everyoltage category Degree of pollution Inhibient temperature -25 °C+50 °C -40 °C+80 °C Formal prail TS 32 or TS 35 Initted interference/interference immunity Everyoltage temperature O,5 mm² - 2,5 mm² / 0,5 mm² - 4 mm² / 22 - 12 AWG Indication of mounting rail Indication	Electrical endurance at 230 V AC / 4 A	3 x 10 ⁵	
Overvoltage category Degree of pollution Combient temperature Combient t	Rated voltage		
Overvoltage category Degree of pollution Combient temperature Combient t	Isolation voltage of input/output	4 kV _{eff.}	
Ambient temperature -25 °C+50 °C -40 °C+80 °C Mounting rail TS 32 or TS 35 Iorms/specifications Imitted interference/interference immunity Vire range, finely stranded/single-core ocation of mounting rail Occasion of mounting rail Accessories Replacement relay -25 °C+50 °C -40 °C+80 °C TS 32 or TS 35 O,5 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG horizontal 28.000.0181.0 10	Overvoltage category		
Atorage temperature -40 °C+80 °C TS 32 or TS 35 Iorms/specifications Imitted interference/interference immunity Vire range, finely stranded/single-core ocation of mounting rail Accessories Replacement relay -40 °C+80 °C TS 32 or TS 35 0,5 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG horizontal 28.000.0181.0 10	Degree of pollution		
Mounting rail TS 32 or TS 35 Ilorms/specifications Imitted interference/interference immunity Vire range, finely stranded/single-core Indicated interference/interference immunity O,5 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG Indicated interference/interference immunity Indicated interference/in	Ambient temperature	−25 °C+50 °C	
lorms/specifications imitted interference/interference immunity Vire range, finely stranded/single-core ocation of mounting rail Accessories Replacement relay Description: Replacem	Storage temperature	−40 °C+80 °C	
imitted interference/interference immunity Vire range, finely stranded/single-core ocation of mounting rail Accessories Replacement relay Description:	Mounting rail	TS 32 or TS 35	
Vire range, finely stranded/single-core 0,5 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG ocation of mounting rail horizontal Accessories Replacement relay Z8.000.0181.0 10	Norms/specifications		
Vire range, finely stranded/single-core 0,5 mm² – 2,5 mm² / 0,5 mm² – 4 mm² / 22 – 12 AWG ocation of mounting rail horizontal Accessories Replacement relay Z8.000.0181.0 10	Emitted interference/interference immunity		
ocation of mounting rail horizontal Accessories Replacement relay Z8.000.0181.0 10	Wire range, finely stranded/single-core	0,5 mm ² – 2,5 mm ² / 0,5 mm ² – 4 mm ² / 22 – 12 AWG	
deplacement relay Z8.000.0181.0 10	Location of mounting rail	horizontal	
deplacement relay Z8.000.0181.0 10			
	Accessories		
See limit curve on page 465	Replacement relay	Z8.000.0181.0 10	
See limit curve on page 465			
See limit curve on page 465			
See limit curve on page 465			
	¹⁾ See limit curve on page 465		



Relay modules input/output

Dimensions (mm): W x H x D

- 1 relay
- 4 relay
- 8 relay



250 V AC / 24 V DC 5 A (DPDT) 2 Changeover contacts

Approvals of the relays: 22.5 x 80 x 68



250 V AC / 24 V DC 4 A (DPDT) 2 Changeover contacts

Part no. Std. pack

Approvals of the relays: $70/128 \times 80 \times 71$

	Description	Туре	Part no.	Std. pack	Type
	1 relay	WR1-DUO-2W-250	V5A80.010.110	00.0 5	
	4 relay				WR4-115-2W-250
ı	O valou				VA/DO 11E 0VA/ 0E0

1 relay	WR1-DUO-2W-250V5A 80.010.1100.0 5	
4 relay		WR4-115-2W-250V4A 80.010.1104.0 1
8 relay		WR8-115-2W-250V4A 80.010.1112.0 1
Wiring diagram, derating curve, limit curve	See pages 470-471	See pages 470-471
Coil circuit		- Coopensor Coopensor
Operating voltage	115/230 V AC/DC +6%/-10%	115 V AC/DC +6%/-10%
Nominal input current per input	ca. 4.8 mA / 4.8 mA AC/DC	ca. 9.5 mA AC/DC
Nominal power consumption	ca. 0.5 VA/W / 1.1 VA/W	ca. 1,0 VA/W
Holding current at 20 °C	> 1.0 mA AC / > 0.8 mA DC	> 1.5 mA AC / > 1,0 mA DC
Suppression circuit for input	polarised diode, suppressor diode	polarised diode, suppressor diode
Status display	LED Green	LED Green
	LED Gleen	LED Gleen
Switching characteristics	0507/407/4/20	0507/407/200
Maximum switching voltage	250 V AC / ¹)V DC	250 V AC / ¹/V DC
Maximum continous current	6 A AC/ ¹⁾ A DC	6 A AC/1/A DC
Maximum switching capacity	1500 VA / 192 W	1500 VA / 192 W
Maximum switching current	6 A AC/DC (Derating beachten)	4 A AC/DC (Derating beachten)
Pickup/dropout delay approx.	10 ms / 14 ms	< 12 ms / < 15 ms
Chatter time	< 3 ms	< 4,5 ms
Maximum switching frequency		
Contact material	AgNi 0.15 + 0.2 μ Au	AgNi 0,15 + 0,2 μ Au
Minimum switchable voltage	5 V	5 V
Minimum switchable current	10 mA	10 mA
Mechanical endurance	3 x 10 ⁷	3 x 10 ⁷
Electrical endurance at 24 V DC / 5 A	1,5 x 10⁵	1.5 x 10 ⁵
Electrical endurance at 230 V AC / 5 A	1,5 x 10 ⁵	1.5 x 10 ⁵
Rated voltage	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Isolation voltage of input/output	4 kV _{eff}	4 kV _{eff.}
Overvoltage category	4 K v eff.	→ NV _{eff.}
Degree of pollution		
Ambient temperature	-25 °CDerating	-25 °CDerating
	-25 °CDerating	-25 °CDefating -40 °C+80 °C
Storage temperature		
Mounting rail	TS 32 or TS 35	TS 32 or TS 35
Norms/specifications		
Emitted interference/interference immunity		
Wire range, finely stranded/single-core	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 –12 AWG	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 –12 AWG
Location of mounting rail	horizontal	horizontal
Accessories		
Replacement relay	Z8.000.0176.2 10	Z8.000.0176.2 10
¹⁾ See limit curve on page 465		
See milit curve on page 400		



Relay modules input/output

- 1 relay
- 4 relay
- 8 relay



250 V AC / 24 V DC 4 A (DPDT) 2 Changeover contacts

Approvals of the relays: $70/128 \times 80 \times 71$

Dimensions (mm): W x H x D

Type Part no. Std. pack	Type	Part no. Std. pack
WR4-230-2W-250V4A 80.010.1108.0 1		
WR8-230-2W-250V4A 80.010.1116.0 1		
See pages 468-469		
·		
·		
LED Green		
< 4,5 ms		
AgNi 0,15 + 0,2 μ Au		
5 V		
10 mA		
3 x 10 ⁷		
1.5 x 10⁵		
1.5 x 10⁵		
4 kV _{eff.}		
-25 °CDerating		
-40°C+80 °C		
TS 32 or TS 35		
0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 –12 AWG		
horizontal		
Z8.000.0176.2 10		
	WR4-230-2W-250V4A 80.010.1108.0 1 WR8-230-2W-250V4A 80.010.1116.0 1 See pages 468-469 230 V AC/DC +6 %/-10 % ca. 4.5 mA AC/DC ca. 1.0 VA/W > 0.7 mA AC / > 0.5 mA DC polarised diode, suppressor diode LED Green 0250 V AC / ¹⁰ V DC 6 A AC / ¹¹ A DC 1500 VA / 192 W 4 A AC/DC (Derating beachten) < 13 ms / < 16 ms < 4,5 ms AgNi 0,15 + 0,2 μ Au 5 V 10 mA 3 x 10 ⁷ 1.5 x 10 ⁵ 1.5 x 10 ⁵ 1.5 x 10 ⁵ 4 kV _{eff} . -25 °CDerating -40°C+80 °C TS 32 or TS 35	WR4-230-2W-250V4A 80.010.1108.0 1 WR8-230-2W-250V4A 80.010.1116.0 1 See pages 468-469 230 V AC/DC +6 %/-10 % ca. 4.5 mA AC/DC ca. 1.0 VAWW > 0.7 mA AC / > 0.5 mA DC polarised diode, suppressor diode LED Green 0250 V AC / "V DC 6 A AC / "A DC 1500 VA / 192 W 4 A AC/DC (Derating beachten) < 13 ms / < 16 ms < 4,5 ms AgNi 0,15 + 0,2 μ Au 5 V 10 mA 3 × 10² 1.5 × 10⁵ 1.5 × 10⁵ 1.5 × 10⁵ 1.5 × 10⁵ 4 kV _{eff} . -25 °CDerating -40°C+80 °C TS 32 or TS 35

Relay modules Wieland Relay System

- 24 V input signal

Dimensions (mm): W x H x D

- 4 kV separation between I/O at a creepage and clearance distance of 8 mm



250 V AC/DC 5 A 48 V DC 20 mA 1 Make contact (SPST, N.O.)

Approvals: CSA, 12.5 x 80 x 58.3



250 V AC/DC 5 A 48 V DC 20 mA 1 Changeover contact (SPDT)

Approvals: CSA, 12.5 x 80 x 60

Description	Type	Part no. Std.	oack	Туре	Part no. Std. pack
WRS Relay system	WRS-REL-1S-250V5	A 80.010.0005.0	10	WRS-REL-1W-250V5A	80.010.0008.0 10
WRS Relay system	WRS-REL-1S-48V20	M 80.010.0007.0	10	WRS-REL-1W-48V20N	1 80.010.0009.0 10
WRS high-current relays					
	_			_	
Wiring diagram, derating curve, limit curve	See pages 472-4	473		See pages 472-47	3
Coil circuit					
Operating voltage	24 V AC/DC +10°	%/–15 %		24 V DC +10%/-15	5%
Nominal input current	25 mA			25 mA	
Nominal power consumption	ca. 0.6 W/VA			ca. 0.6 W/VA	
Holding current at 20 °C	≥ 2 mA			≥ 2 mA	
Parallel connection of max.	20 Relays			20 Relays	
Suppression circuit of input	polarised diode, s	suppressor diode		polarised diode, suppressor diode	
Status display	LED Green			LED Green	
Switching characteristics	Output	Input		Output	Input
Maximum switching voltage	250 V AC/DC ²⁾	48 V DC		250 V AC/DC ²⁾	48 V DC
Maximum switching current	8 A AC/DC ²⁾	20 mA		8 A AC/DC ²⁾	20 mA
Maximum switching capacity	2000 VA / 192 W	1.2 W		2000 VA / 192 W	1,2 W
Maximum continuous current	5 A AC/DC			5 A AC/DC	
Pickup/dropout delay approx	8 ms / 8 ms	10 ms / 10 ms		8 ms / 8 ms	10 ms / 10 ms
Chatter time	3 ms	3 ms		3 ms	3 ms
Contact material	AgCdO	AgNi 0.15 + 10 μ /	∖ u	AgCdO	AgNi 0,15 + 10 μ Au
Minimum switchable voltage	12 V	μV		12 V	μV
Minimum switchable current	100 mA	μΑ		100 mA	μΑ
Mechanical endurance	3 x 10 ⁷	3 x 10 ⁷		3 x 10 ⁷	3 x 10 ⁷
Electrical endurance at 26 V DC / 15 mA		3 x 10 ⁵			3 x 10 ⁵
Electrical endurance at 24 V DC / 5 A	2.5 x 10⁵			2.5 x 10⁵	

- 24 V input signal
- 4 kV separation between I/O at a creepage and clearance distance of 8 mm

High current relay for 16 A

Important note for user:

In the case of single modules with 2 changeover contacts, the two sets of contacts have to be supplied from the same phase (e.g. L1)



250 V AC/DC 5 A 48 V DC 20 mA **2 Changeover contact (DPDT)** Approvals: CSA,

22.5 x 80 x 60



250 V AC/DC 16 A 1 Changeover contact (SPDT)

Approvals: CSA, €€ 22.5 x 80 x 58.3

Dimensions (m	ım): W x H x D
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Description	Type Part no. Std. pack	Type Part no. Std. pack
WRS Relay system	WRS-REL-2W-250V5A 80.010.1003.0 5	
WRS Relay system	WRS-REL-2W-48V20M 80.010.1002.0 5	
WRS high-current relay		WRS-REL-1W-250V16 80.010.0010.0 5
Wiring diagram, derating curve, limit curve	See pages 472-473	See pages 472-473
Coil circuit	Output Input	
Operating voltage	24 V AC/DC +10 %/-15 %24 V DC +10 %/-15 %	24 V AC/DC +10 %/-15 %
Nominal input current	25 mA	25 mA
Nominal power consumption	ca. 0.6 W/VA	ca. 0,6 W/VA
Holding current at 20 °C	≥ 2 mA	≥ 2 mA
Parallel connection of max.	20 Relays	20 Relays
Suppression circuit of input	Polarised diode	
Status display	LED Green	LED Green
Switching characteristics	Output Input	2.00
Maximum switching voltage	250 V AC/DC ²⁾ 48 V DC	250 V AC / V DC ²⁾
Maximum switching current	6 A AC/DC ² 20 mA	16 A AC / V DC ²⁾
Maximum switching capacity	1500 VA / 144 W 1,2 W	4000 VA / 400 W ²⁾
Maximum continuous current	5 A AC/DC	16 A AC/DC ²
Pickup/dropout delay approx.	10 ms / 5 ms 10 ms / 10 ms	10 ms / 5 ms
Chatter time	3 ms 3 ms	3 ms
Contact material	AgCdO AgNi 0.15 + 10 μ Au	AqCdO
Minimum switchable voltage	12 V μV	12 V
Minimum switchable current	100 mA μA	100 mA
Mechanical endurance	3 x 10 ⁷ 3 x 10 ⁷	3 x 10 ⁷
Electrical endurance at 26 V DC / 15 mA	3 x 10 ⁵	3 × 10
Electrical endurance at 24 V DC / continuous current	2,5 x 10 ⁵	1.8 x 10 ⁵
Electrical endurance at 230 V AC / continuous current	2,5 x 10 ⁵	1.8 x 10 ⁵
Rated voltage	2,3 X 10	1.0 X 10
Isolation voltage of input/output	4 kV _{eff.} 4 kV _{eff.}	4 kV _{eff}
	4 KV _{eff.} 4 KV _{eff.}	4 KV _{eff.}
Overvoltage category		
Degree of pollution	25 % .50 % .50 % .50 %	2E 9C Deveting
Ambient temperature	-25 °C+50 °C -25 °C+50 °C -40 °C+85 °C -40 °C+85 °C	-25 °CDerating -40 °C+85 °C
Storage temperature		
Mounting rail	TS 32 or TS 35	TS 32 or TS 35
Norms/specifications		
Emitted interference/interference immunity	0.5 0.5 0.5 0.4 0.400 -40 0.400	0.5 0.5 2.40.5 2.40.5 2.40.5 2.40.5
Wire range, finely stranded/single-core	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AWG	0.5 mm² – 2.5 mm² / 0.5 mm² – 4 mm² / 22 – 12 AWG
Location of mounting rail	horizontal	horizontal
Accessories		
Plug-in jumper (I _{max} = 0.5 A AC/DC)	Z8.000.0103.4 10	Z8.000.0103.4 10
2 and a limit arms and devoting arms and arms		
²⁾ see d.c. limit curve and derating curve on page 471		

Relay modules Timer relay flare

Multifunction timer relay

- on delay
- Single Shot
- Cycle Off pulsing
- Cycle On pulsing
- off delay
- timer range 0.1 sec 300 sec

Timer relay on delay

- timer range 1 - 100 sec, 1 - 100 min

Dimensions (mm): W x H x D

6.2 x 89 x 70



Multifunction / On delay/off delay, Single Shot, cycle / 1 make contact (SPST N.O.)

Approvals: CSA



Timer on delay relay

Approvals: CSA

Time range	Screw terminal Spring-clamp Std. pack	Screw terminal Spring-clamp Std. pack
0.1 – 300 sec	81.020.4100.0 10	
1 - 100 sec		81.020.4101.0 10
1 – 100 min		81.020.4102.0 10
Wiring diagram, derating curve, limit curve	See pages 474	See pages 474
Coil circuit		
Operating voltage	24 V DC +10%/-15%	24 V DC +10%/-15%
Control voltage (TRIGGER)	24 V DC +10%/-15%	24 V DC +10%/-15%
Nominal current	ca. 10 mA	ca. 10 mA
Time setting	At the front (behind the hinged identification plate holder)	At the front (behind the hinged identification plate holds
Setting of function	DIP switch S1–S5/potentiometer	Potentiometer
Status display	LED Green	Green LED
Repeat accuracy	± 1% of selected range	± 1% of selected range
Switching characteristics	J. C.	3
Maximum switching voltage	250 V AC / 300 V DC	250 V AC / 300 V DC
Maximum switching current	6 A AC / 2 A DC	6 A AC / 2 A DC
Maximum switching capacity	1500 VA / 48 W	1500 VA / 48 W
Maximum starting current	10 A; 4 sec.	10 A; 4 sec.
Pickup/dropout delay	1 ms / 5 ms	1 ms / 5 ms
Chatter time	2 ms	2 ms
Maximum switching frequency	20 Hz	20 Hz
Contact material	AgSnO ₂	AgSnO ₂
Minimum switchable voltage	12 V	12 V
Minimum switchable current	8 mA	8 mA
Mechanical endurance	2 x 10 ⁷	2 x 10 ⁷
Electrical endurance 24 V DC / 2 A	6 x 10 ⁵	6 x 10 ⁵
Electrical endurance 230 V AC / 6 A	8 x 10 ⁴	8 x 10 ⁴
Rated voltage	0 × 10	0 1 10
Isolation voltage of input/output	4 kV _{eff.}	4 kV _{eff}
Overvoltage category	III (according to HD 625.1S1)	III (according to HD 625.1S1)
Degree of pollution	2 (according to HD 625.131)	2 (according to HD 625.1S1)
Ambient temperature	0 °C+50 °C	0 °C+50 °C
Storage temperature	-40 °C+80 °C	-40 °C+80 °C
Protection type/mounting rail	IP 20 / TS35	IP 20 / TS35
Norms/specifications	VDE 0160; VDE 0106 T101	
Emitted interference/interference immunity	EN 61000-6-3; EN 61000-6-2	VDE 0160; VDE 0106 T101 EN 61000-6-3; EN 61000-6-2
Wire range of screw terminals	EN 61000-6-3; EN 61000-6-2	EN 61000-6-3; EN 61000-6-2
Wire range of screw terminals Wire range of spring clamp terminals	24 – 12 AWG	24 – 12 AWG
finely stranded	0.14 mm ² – 1.5 mm ²	0.14 mm ² – 1.,5 mm ²
,	0.14 mm² – 1.5 mm² 0.5 mm² – 2.5 mm²	0.14 mm² – 1.,5 mm² 0.5 mm² – 2.5 mm²
single core	0.5 mm ² = 2.5 mm ²	0.5 111111 - 2.5 111111-
CSA EX	Class I, Division 2, Groups A, B, C and D, T6	Class I, Division 2, Groups A, B, C and D, T6
Accessories		
Plug-in jumper (U _{max.} = 50 V, I _{max.} = 2 A)	Z8.000.0200.8	Z8.000.0200.8
8 digit marker tag, unmarked, 60 off	Z4.242.5153.0	Z4.242.5153.0
Comb for potential distribution, red/blue	Z8.000.0202.3 / Z8.000.0202.4	Z8.000.0202.3 / Z8.000.0202.4
End caps for comb, red/blue	Z8.000.0202.1 / Z8.000.0202.2	Z8.000.0202.1 / Z8.000.0202.2



Multifunction time relay

- on delay
- Single Shot
- Cycle on, pulsing
- off delay
- timer range 0.1 sec 255 sec



WRS Multifunction timer relay / 1 Changeover contact (SPDT)

Approvals: CSA,

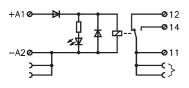
Dimensions (mm): W x H x D $38.7 \times 80 \times 60$

Multi function	Screw terminal Spring-clampStd. pack	
0.10 - 255.0 sec	WRS-TIMER-250V5A 81.020.3000.0 10	
	VIII IIII EN ESSAN O II SE ESS	
Wiring diagram, derating curve, limit curve	See pages 475	
Coil circuit		
Operating voltage	24 V DC +10%/-15%	
Nominal input current	8.2/29 mA inactive/active	
Suppression circuit of input	Polarised diode	
Status display		
	Input LED Green	
	Output LED red	
Time setting	Potentiometer	
Parallel connection of max	20 Relays	
Switching characteristics		
Maximum switching voltage	250 V AC / V DC ¹⁾	
Maximum switching current	6 A AC / V DC ¹⁾	
Maximum switching capacity	1500 VA / 192 W ¹⁾	
Maximum continuous current	5 A AC / DC ¹⁾	
Pickup/dropout delay approx.	10 ms / 5 ms	
Chatter time	3 ms	
Contact material	AgNi 0.15 + 0.2 μ Au	
Minimum switchable voltage	5 V	
Minimum switchable current	10 mA	
Mechanical endurance	3 x 10 ⁷	
Electrical endurance at 24 V DC / continuous current	1.5 x 10⁵	
Electrical endurance at 230 V AC / continuous current	1.5 x 10⁵	
Insulation voltage of input/output	4 kV _{eff.}	
Ambient temperature	−25 °C+50 °C	
Storage temperature	−40 °C+85 °C	
Wire range	22 - 12 AWG	
finely stranded	0.5 mm ² – 2.5 mm ²	
single core	0.5 mm ² – 4 mm ²	
Mounting rail	TS 32 or TS 35	
Location of mounting rail	horizontal	
Accessories	70.000	
Plug-in jumper (I _{max.} = 0.5 A AC/DC)	Z8.000.0103.4 10	
D.C. Lincit annua and A74		
¹⁾ See limit curve on page 471		

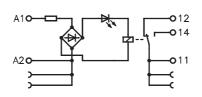
flarea re

Wiring diagrams: flare - Mechanical relay modules

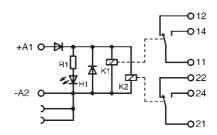
12-V-/24-V-Relay
1 Changeover contact (SPDT)



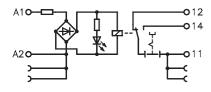
110-V-/230-V-Relay
1 Changeover contact (SPDT)



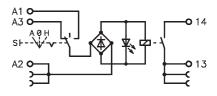
24-V-Relay 2 Changeover contact (DPDT)



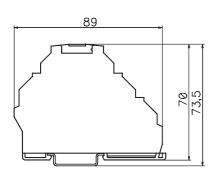
Isolating blade terminal relay (SPDT)



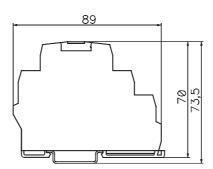
Hand-0-Auto-Relay (SPST, N.O.)



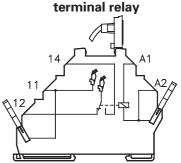
Housing with spring clamp terminals



Housing with screw terminals



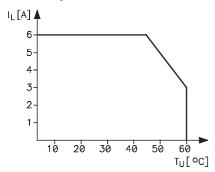
Connection of isolating blade



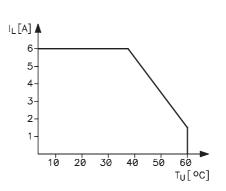


Derating: flare - Mechanical relay modules

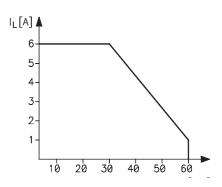
24-V-Relay 1/2 Changeover contact (SPDT/DPDT) 12-V-Relay 1 Changeover contact (SPDT) Isolating blade terminal relay (SPDT) HAND-0-AUTO-Relay (SPST, N.O.) Time relay (SPST, N.O.)



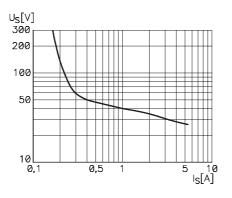
110-V-Relay 1 Changeover contact (SPDT)



230 V-Relay 1 Changeover contact (SPDT)



Derating curve for d.c. loads



Switching capacity according to 60947-5.1

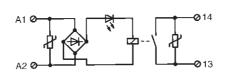
	resistive	inductive	
	AC 12	AC 15	DC 13
V	А	А	А
24	6	3	1
110	6	3	0.2
230	6	3	0.1

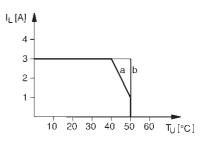


Wiring diagrams

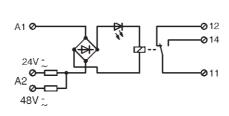
Derating

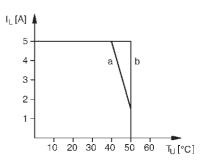
WEG-REL-1S 250 V 3 A



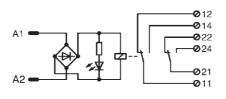


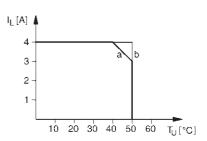
WEG-REL-1W 250 V 5 A





WEG-REL-2W 250 V 4 A





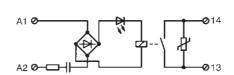
a = side by side without spacingb = side by side with spacing > 20 mm

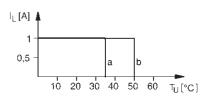


Wiring diagrams

Derating

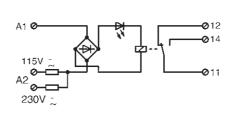
WEG-230-1S 250 V 1 A

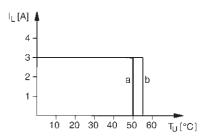




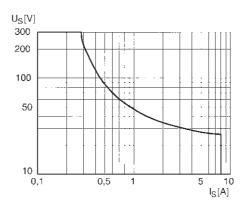
a = side by side without spacingb = side by side with spacing > 20 mm

WEG-DUO-1W 250 V 3 A





Limit curve (for resistive load)

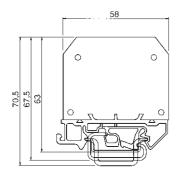


Relay modules

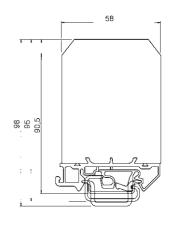


Dimensions

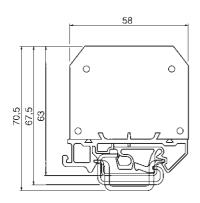
WEG-REL-1S 250 V 3 A



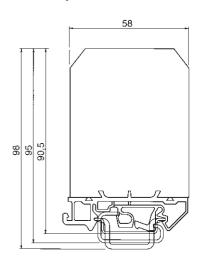
WEG-REL-1W 250 V 5 A and WEG-REL-2W 250 V 4 A



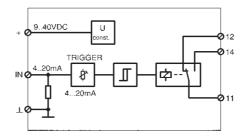
WEG-230-1S 250 V 1 A



WEG-DUO-1W 250 V 3 A Current relay SR 4...20mA

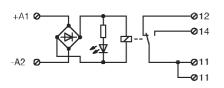


Wiring diagram Current relay SR 4...20 mA

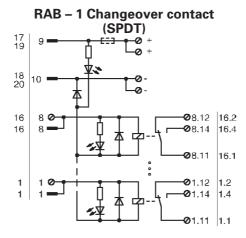


RAB4B

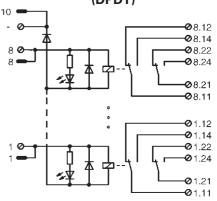
R12-12V-1W 250 V 5 A



Wiring diagrams

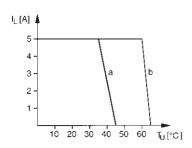


RAB – 2 Changeover contact (DPDT)



Derating

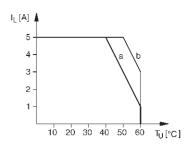
R12-12V-1W 250 V 5 A



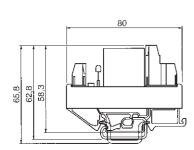
MIZ-12V-1W 250 V 5 A

a = continuous operationb = switching operation 50% duty cycle

RAB-FSS and RAB-SS

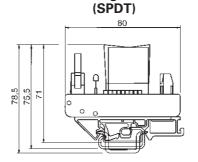


R12-12V-1W 250 V 5 A

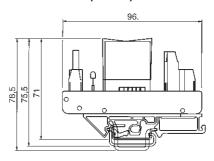


RAB – 1 Changeover contact

Dimensions



RAB – 2 Changeover contact (DPDT)

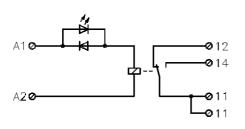


Relay modules

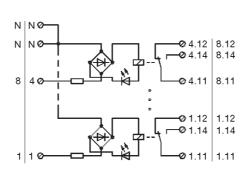


Wiring diagrams

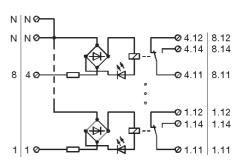
WR1-230-1W 250 V 4 A



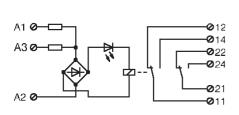
WR4/8-115-1W 250 V 4 A



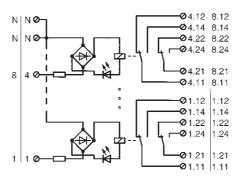
WR4/8-230-1W 250 V 4 A



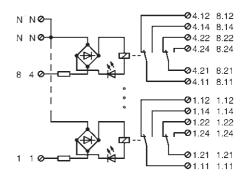
WR1-DUO-2W 250 V 5 A



WR4/8-115-2W 250 V 4 A



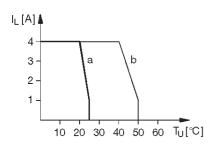
WR4/8-230-2W 250 V 4 A



WR/R

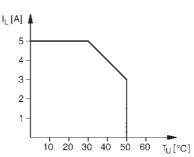
Derating

WR1 – 1 Changeover contact (SPDT)

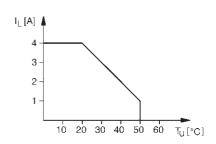


a = side by side without spacingb = side by side with spacing of 5 mm

WR1 - DUO

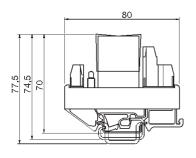


WR4/WR8 – 2 Changeover contact (DPDT)

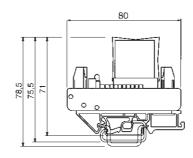


Dimensions

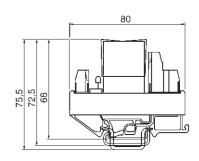
WR1 – 1 Changeover contact (SPDT)



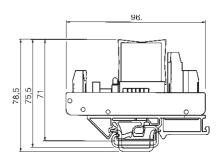
WR4/WR8 – 1 Changeover contact (SPDT)



WR1 – DUO



WR4/WR8 – 2 Changeover contact (DPDT)



Relay modules

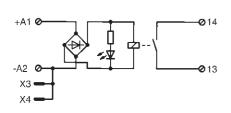


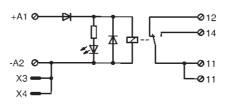
Wiring diagrams of relay couplers

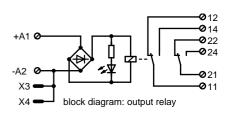
WRS-REL-1S 250 V 5 A

WRS-REL-1W 250 V 5 A

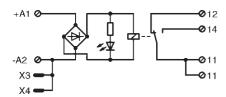
WRS-REL-2W 250 V 5 A





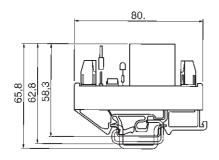


WRS-REL-1W 250 V 16 A

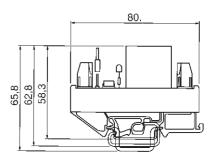


Dimensions

WRS-REL-1S 250 V 5 A WRS-REL-1W 250 V 16 A



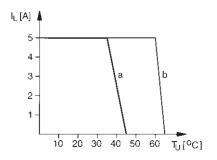
WRS-REL-1W 250 V 5 A WRS-REL-2W 250 V 5 A





Derating

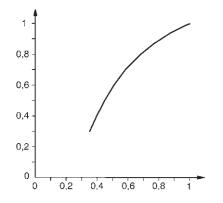
WRS-REL-1S 250 V 5 A WRS-REL-1W 250 V 5 A



a = side by side without spacingb = side by side with spacing > 20 mm

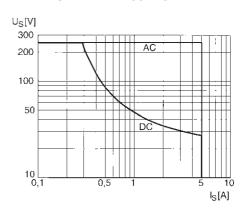
Contact loading:

WRS-REL-1S 250 V 5 A WRS-REL-1W 250 V 5 A WRS-REL-2W 250 V 5 A

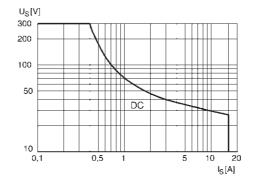


Limit curve:

WRS-REL-1S 250 V 5 A WRS-REL-1W 250 V 5 A WRS-REL-2W 250 V 5 A



D.C. limit curve and derating curve: WRS-REL-1W 250 V 16 A



I_L[A] 16 12 - 8 - 4 - 10 20 30 40 50 60 70 80 T_U[OC]

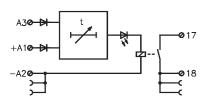
a = side by side without spacingb = side by side with spacing of 5 mm

Relay modules

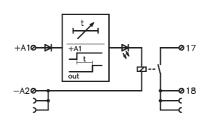
flared I C

Block diagrams of *flare* timer relays

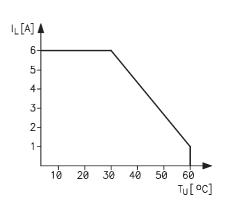
Multifunction



On delay



Derating: Timer relays

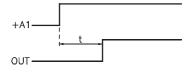


Setting the type of function

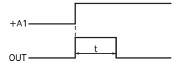
Function	DIP-Switch		
	1	2	3
on delay	on	on	on
Single Shot	on	off	on
Cycle on pulsing	on	on	off
Cycle off pulsing	on	off	off
off delay	off	off	off

Setting the time ranges

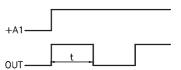
timer range	± 20%	DIP-S	witch	
t min	t max	4	5	
0.1	1.2 sec	off	on	
0.4	5 sec	on	off	
3.5	40 sec	on	on	
30	300 sec	off	off	



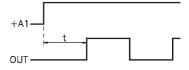
on delay



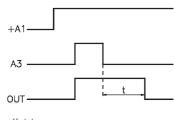
Single Shot



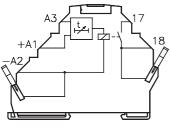
Cycle on, pulsing



Cycle off, pulsing



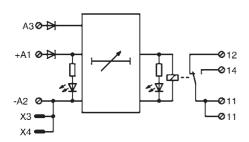
off delay

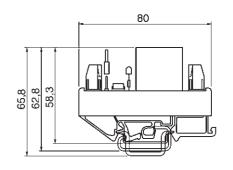


Terminal assignment: Timer relay



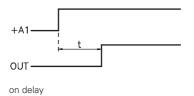
Block diagram of multi function WRS timer relays





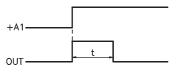
Setting the type of function

Function	DIP-switch		
	1	2	3
on delay	on	on	on
Single Shot	on	on	on
Cycle on, pulsing	off	on	off
off delay	off	off	off
	1		

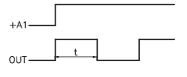


Setting the time ranges

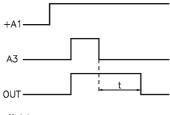
timer range	± 20%	DIP-switch	า
t min	t max	4	5
0.1	1 sec	off	on
0.4	4 sec	on	off
3	30 sec	on	on
25	255 sec	off	off



Single shot



Cycle on, pulsing



off delay

Relay modules Solid state relays flare

Wieland solid-state relay modules, the powerful addition

Solid-state relays are used in the same way as electromechanical relays as a connecting element between field devices and electronic control and signalling equipment. These modules can offer additional functionalities to the switching tasks that are required during processing. The core characteristics of the solid-state relays are:

- ☐ High switching frequencies up to several kHz
- ☐ Almost unlimited service life due to lack of mechanics
- ☐ Insensitive to vibrations and impulse loads
- $\ensuremath{\square}$ Bounce-free and noise-free switching
- ☐ Control power in the lower mW range

Wieland offers a full range of solid state relay modules with the properties outlined above. Depending on the required applications, a superior selection of relay modules are available with various operating voltages, output arrangements and housings.

Product ranges:

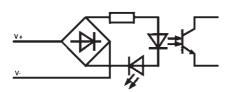
flare, Solid-state relays with an overall width of 6.2 mm with input voltages of 24 V DC up to 230 V AC and switching currents up to 2 A.

WRS, Solid-state relays in a mounting base with input voltages of 24 V DC up to 230 V AC and switching currents up to 6 A.

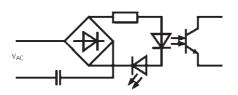
M-PB, Plug-in, one- to eight-channel solidstate relays in a mounting base with input voltage voltages of 24 V DC up to 230 V AC and switching currents up to 3 A.

Overview of the technical data Input circuit/control side

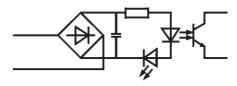
Wieland solid-state relays can be controlled with direct or alternating voltage, depending on their type. Each of the modules contains a suppression circuit against polarity reversal and an LED for status display in the input circuit.



Block diagram of DC input



Block diagram of AC input



Block diagram of AC/DC input

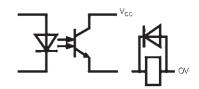
To ensure safe operation of the relay the residual voltage in the control circuit must not exceed 5% DC or 15% AC of this operating voltage as specified in VDE 0435.

Output circuit/loadside

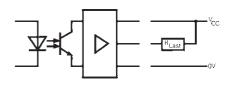
A solid-state relay for either DC or AC loads can be selected depending on the application. Also with DC outputs there are 2 types of connection available.

□ 2 wire output

□3 wire output, with negative switching



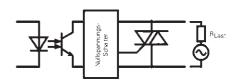
Block diagram of 2 wire output



Block diagram of 3 wire output

To guarantee error-free operation it is important to select a relay with a rating that meets the voltage and current requirement and also to add a protective circuit to the output as shown in the block diagram above - such as a varistor or RC element.

If a solid-state relay is operated with an inductive load, the load must be equipped with a protective suppression circuit such as a free-wheeling diode. In all cases, it must be ensured that the protection level of the protective device lies below the respective off-state voltage of the relay.



Block diagram of AC output

Solid state relays for the AC loads incorporate a triac as the switching element. A triac is a zero voltage switch and is used to avoid high inrush and back EMF peaks by connecting the load at zero voltage and disconnecting the load at zero current.

As for D.C. loads, care should be taken that the protection level of the protective measures lies below the off-state voltage of the Triac.

Relay modules Solid state relays flare

Overall width: 6.2 mm



24 V DC / 48 V DC; 500 mA; 2 A 2 wire input/output

Approvals: (1), CSA



115 V AC/DC / 48 V DC; 500 mA 2 wire input Approvals: ®, CSA

Dimensions (mm): W x H x D
6.2 x 89 x 70

80.020.4102.0 10
38–489
56-469
AC/DC
/ 40 V DC
diode
0 °C
+55 °C
DE 0106 T101
3; EN 61000-6-2
0, 114 01000 0 2
G
1.5 mm ²
5 mm ²
J min
sion 2, Groups A, B, C and D, T6
Part no.
Z8.000.0200.8
Z4.242.5153.0
L4.Z4Z.D1D3.U
1

flare

Overall width: 6.2 mm

Dimensions (mm): W x H x D

6.2 x 89 x 70



230 V AC / 48 V DC; 500 mA 2 wire input Approvals: (II) CSA



24 V DC / 230 V AC; 500 mA 2 wire output triac

Approvals: (II) CSA

Approvals: (4), CSA		Approvals: (4), CSA		
Description	Screw terminal Spring clamp terminal Std. pack	Screw terminal Spring clamp terminal Std. pack		
24 V DC, 500 mA		80.020.4150.0 10		
24 V DC, 2 A				
115 V AC/DC				
230 V AC	80.020.4103.0 10			
Wiring diagram, derating curve, limit curve	See page 488–489	See page 488–489		
Control side				
Nominal input voltage	230 V AC	24 V DC		
Voltage range "ON"	90250 V AC	10 V53 V DC		
Voltage range "OFF"	040 V AC	0 V5 V DC		
Power consumption	ca. 7.5 mA	ca. 6 mA		
Status display	LED Green	LED Green		
Load side				
Nominal output voltage	48 V DC	230 V AC		
Min. switching voltage	4.4 V DC	12 V AC		
Max. switching voltage	53 V DC	250 V AC		
Min. switching current	0.1 mA	0.1 mA		
Max. switching current	500 mA	500 mA		
On-state voltage	1.2 V DC	1.4 V AC		
Pickup delay	30 ms	10 ms		
Dropout delay	20 ms	10 ms		
Switching frequency (resistive load)	10 Hz	20 Hz		
Minimum switchable voltage	Suppressordiode	Suppressordiode		
Suppression circuit	Suppressor diode	Suppressor diode		
General data				
Rated voltage				
Isolation voltage of input/output	3.75 kV	2,5 kV		
Overvoltage category	III	III		
Degree of pollution	2	2		
Ambient temperature	0 °C up to 50 °C	0 °C up to 50 °C		
Storage temperature	-40 °C up to +55 °C	-40 °C bis +55 °C −40 °C up to +55 °C		
Protection type/mounting rail	IP 20 / TS 35	IP 20 /TS 35		
Norms/specifications	VDE 0160; VDE 0106 T101	VDE 0160; VDE 0106 T101		
Emitted interference/interference immunity	EN 61000-6-3; EN 61000-6-2	EN 61000-6-3; EN 61000-6-2		
Wire range of screw terminal	-	-		
Wire range of spring-clamp terminal	24 – 12 AWG	24 – 12 AWG		
finely stranded	0.14 mm ² – 1.5 mm ²	0.14 mm ² – 1.5 mm ²		
eingle core	0.5 mm ² – 2.5 mm ²	0.5 mm ² – 2.5 mm ²		
CSA Ex approval in range	Class I, Division 2, Groups A, B, C and D, T6	Class I, Division 2, Groups A, B, C and D, T6		
Accessories	Part no.	Part no.		
Plug-in jumper ($U_{max} = 50 \text{ V}$, $I_{max} = 2 \text{ A}$)	Z8.000.0200.8	Z8.000.0200.8		
Plug-in lumper (U,,,, = 50 V, I,,,, = 2 A)				

Relay modules Solid state relays

- 24 V Input signals- 2.5-kV separation between I/O at a creepage and clearance distance of 8mm



24 V / 60 V DC / 3 A 2 wire output

Approvals: c(4)us, CSA 12.5 x 80 x 64



24 V / 60 V DC / 5 A 2 wire output

Approvals: (4)us, CSA 12.5 x 80 x 59

Dimensions (mm): W x H x D	Approvals: ൘ം, CSA 12.5 x 80 x 64	Approvals: ᡂ, CSA 12.5 x 80 x 59
Description	Type Part no. Std. pack	Type Part no. Std. pack
Wieland relay system	WRS-SSDC-60V3A 80.020.2003.0 10	WRS-SSDC-60V5A 80.020.2004.0 10
Tribuna rolay byblom	Will 665 3 80 W. W. G. 622 . 200	VIII.0 6650 6676/ 66.825.2561.6
Wiring diagram, derating curve, limit curve	See page 490	See page 490
Control side	Coo page 100	- Coo page 100
Operating voltage	24 V DC +10%/-15%	24 V DC +10%/-15%
Nominal input current per input	16 mA	16 mA
Power comsumption	0.4 W	0.4 W
Parallel connection of max	20 Relays	20 Relays
Load side		
Nominal switching voltage	24 V DC	24 V DC
Maximum switching voltage	60 V DC	60 V DC
Minimum switching voltage	3 V DC	3 V DC
Effective on-state voltage	1.5 V DC at I _{Nenn}	0.5 V DC
Maximum effective current	3 A DC (Derating)	5 A DC
Minimum effective current	20 mA	0 mA
Maximum impulse current	5 A DC (1 sec.)	60 A DC (10 ms)
Maximum residual current	1 mA at 60 V DC	1 µA DC
Fusing, note I ² t value	_	FF
Internal Suppression circuit	Z-Diode 68 V / 5 W	_
Maximum pickup/dropout delay	100 µs	1 ms
Maximum switching frequency	1 kHz	100 Hz
Isolation voltage of input/output	4 k V _{eff}	2.5 kV _{eff}
Capacity of input/output	8 pF	15 pF
Overvoltage category		100
Degree of pollution		
Ambient temperature	-25 °CDerating	-20 °CDerating
Storage temperature	-25 °C+85°C	-25 °C+85°C
Mounting rail	TS 32 or TS 35	TS 32 or TS 35
Norms/specifications		100000000000000000000000000000000000000
Emitted interference/interference immunity		
Wire range, finely stranded/single core	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AWG	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AWG
Location of mounting rail	horizontal	horizontal
Accessories		
Plug-in jumper	Z8.000.0103.4 10	Z8.000.0103.4 10
TO JAMES AND		

IVRS

– 24 V DL Input Signal



24 V DC / 250 V AC / 4 A 2 wire output

Approvals: @ws, CSA



24 V DC / 250 V AC / 6 A 2 wire output

Approvals: CSA

imensions (mm): W x H x D	Approvals: (∰s, CSA 12.5 x 80 x 56	Approvals: CSA 25.6 x 80 x 70	
Description	Type Part no. Std. pack	Type Part no. Std. pack	
Wieland relay system	WRS-SSAC1-250 V4A 80.020.2001.0 10	WRS-SSAC1-250 V6A 80.020.0004.0 5	
violana rolay system	WIII 00H01 200 VHA 00.020.2001.0	WIII 00A01 250 VOA 00.020.0004.0	
Wiring diagram, derating curve, limit curve	See page 490–491	See page 490–491	
Control side			
Operating voltage	24 V DC +10%/-15%	24 V DC +15%/-15%	
Nominal input current per input	20 mA	15 mA	
Power consumption	0,5 W	0.4 W	
Parallel connection of max	20 Relays	20 Relays	
Load side			
Nominal switching voltage	250 V AC	24 V-250 V AC	
Maximum switching voltage	280 V AC		
Minimum switching voltage	48 V AC		
Peak off-state voltage	1200 Vs	600 Vs	
Critical rate of rise of voltage	500 V/μs	500 V/µs	
Effective on-state voltage	1.4 V	1.6 V	
Maximum effective current	4 A AC	6 A AC	
Minimum effective current	60 mA	60 mA	
Maximum impulse current	250 A AC (20ms)	10 A AC	
Maximum residual current	0.1 mA	0.1 mA _{eff}	
Power factor φ	> 0,5	> 0,5	
Zero sequence voltage switch	yes	yes	
I ² t value	260 A²s	260 A ² s	
Fusing, note I2t value	FF	FF	
Suppression circuit		Varistor	
Maximum pickup/dropout delay	10 ms	100 ms	
Maximum switching frequency	15 Hz	15 Hz	
Isolation voltage of input/output	4 kV _{eff}	4 kV _{eff}	
Capacity of input/output	10 pF	10 pF	
Overvoltage category		<u>'</u>	
Degree of pollution			
Ambient temperature	−25 °CDerating	-25 °CDerating	
Storage temperature	−25 °C+85°C	-25 °C+85°C	
Mounting rail	TS 32 or TS 35	TS 32 or TS 35	
Norms/specifications			
Emitted interference/interference immunity			
Wire range, finely stranded/single core	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AWG	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AWG	
Location of mounting rail	horizontal	horizontal	
Accessories			
Plug-in jumper	Z8.000.0103.4 10	Z8.000.0103.4 10	

Relay modules Module boards M-PB

Relay module boards

Dimensions (mm): W x H x D

- 1 relay
- 4 relay
- 8 relay

The module boards are supplied without solid-state relays or miniature fuses



Module board 1 relay

26 x 96 x 70,3



Module board 4/8 relays

70/138 x 96 x 70,3

Description	Type	Part no. Std.	oack	Type	Part no. Std. pack	
1 relay module boards	M-PB 1 SR	87.220.1353.3	2		·	
4 relay module boards				M-PB 4 SP	87.220.0753.3 1	
8 relay module boards				M-PB 8 SP	87.220.0853.3 1	
·						
Wiring diagram, derating curve, limit curve	See page 492-493			See page 492-4	493	
Switching variations						
Input without positive/negative switching	+ / -					
Output with positive/negative switching	+ / -			+		
Caution: Please allow for the voltage drop at the LED						
Switching behaviour						
See technical data of input/output relays						
on pages 478 to 481						
General data						
Voltage drop at the LED	2 V			2 V		
Ambient temperature	-30 °C+40 °C			-30 °C+40 °C		
Storage temperature	−25 °C+85 °C			−25 °C+85 °C		
IDC header DIN 41651	_			8 relay, 10 pole		
Miniature fuse holder	5 x 20 mm			5 x 20 mm		
Wire diameter of solid state relay connection	max 1.05 mm			max 1.05 mm		
Wire range, finely stranded/single core	0.5 mm ² – 2.5 mm ²	/ 0.5 mm ² – 4 mn	n ² / 22 – 12 Δ\NG		nm ² / 0.5 mm ² – 4 mm ² / 22 – 12 <i>A</i>	Δ\Λ/α
Mounting rail	TS 32 or TS 35	7 0.0 11111	1 / 22 12 / 000	0.0111111 2.011	11111 7 0.0 111111	
Location of mounting rail	horizontal			horizontal		
Accessories						
Solid state relay input (See page 478)	-	Z5.580.8100.0	10			
Solid state relay input (See page 478)	M-IAC24	Z5.580.7800.0	10			
Solid state relay output (See page 480)	ODC 3-32 V / 3-60 V	Z8.000.0169.8	10	ODC 3-32 V / 3-60	ov Z8.000.0169.8 10	
Solid state relay output (See page 481)	ODC 3-32 V / 3-200 V	Z8.000.0169.9	10	ODC 3-32 V / 3-20	00 V Z8.000.0169.9 10	
Solid state relay output (See page 480)	OAC 3-32 V / 24-280 V	VZ8.000.0156.9	10	OAC 3-32 V / 24-2	80 V Z8.000.0156.9 10	
					_	

M-PB

The module boards are supplied without solid state relays or miniature fuses.

Dimensions (mm): W x H x D



Important notice

In the case of multiple modules (2 changeover contacts), the outputs must be supplied from the same phase (e.g. L1)

Module board 4/8 relay

70/138 x 96 x 70.3

Description	Туре	Part no. Std.	pack
Module boards 1 relay			
Module boards 4 relay	M-PB 4 SG	87.220.1453.3	1
Module boards 8 relay	M-PB 8 SG	87.220.1553.3	1
Wiring diagram, derating curve, limit curve	See page 492-	493	
Coil circuit			
Input without positive/negative switching	_		
Output with positive/negative switching	+/-		
	.,		
Caution: Please allow for the voltage drop at the LED			
Caution 1 loads direct for the vertage drop at the EEB			
Switching behaviour			
See technical data of input/relays			
on pages 478 to 481			
General data			
Voltage drop at the LED	2 V		
Ambient temperature	-30 °C+40 °C		
•	-30 °C+40 °C		
Storage temperature IDC header DIN 41651	-25 °C+85 °C		
Miniature fuse holder	5 x 20 mm		
Wire diameter of solid state relay connection	maximal 1,05 m		2 / 00 40 414/0
Wire range, finely stranded/single core		mm² / 0.5 mm² – 4 mi	n² / 22 – 12 AVVG
Mounting rail	TS 32 or TS 35		
Location of mounting rail	horizontal		
Accessories			
Solid state relay input (See page 478)	M-IDC24	Z5.580.8100.0	10
Solid state relay input (See page 478)	M-IAC24	Z5.580.7800.0	10
Solid state relay output (See page 480)	ODC 3-32 V / 3-6	0 V Z8.000.0169.8	10
Solid state relay output (See page 481)	ODC 3-32 V / 3-2	00 V Z8.000.0169.9	10
Solid state relay output (See page 480)	OAC 3-32 V / 24-2	280 V Z8.000.0156.9	10

Technische Änderungen vorbehalten 483

Relay modules Solid state relays M-PB

For use with M-PB relay module boards





Dimensions (mm): W x H x D 10.2 x 26.3 x 43.2

240 V AC / 5 mA 3 wire input AC

32 V DC /32 mA 3 wire input DC

5 1.1	7	
Description	Type Part no. Std. pack	Type Part no. Std. pack
Solid state relay	M-IAC 24 Z5.580.7800.0 10	M-IDC 24 Z5.580.8100.0 10
Pin base input	See page 483	See page 483
Pin base output	See page 483	See page 483
·		
Wiring diagram, derating curve, limit curve	See page 492–493	See page 492–493
Control side		
Nominal operating voltage	240 V AC	
Maximum operating voltage	280 V AC/DC	32 V DC
Minimum operating voltage	180 V AC/DC	3,3 V DC
Nominal input current	5 mA AC	32 mA DC
Breaking current	1.5 mA AC	1 mA DC
Resistance	75 kΩ	1 kΩ
Maximum voltage without reaction at output	50 V AC	2 V DC
Maximum current without reaction at output	2 mA AC	1,5 mA DC
Load side	Z IIIA AC	I,3 IIIA DC
Nominal switching voltage	24 V DC	24 V DC
	30 V DC	30 V DC
Maximum switching voltage Minimum switching voltage	20 V DC	20 V DC
<u> </u>		
Maximum current	16 mA DC	16 mA DC
Leakage current	10 µA DC	10 μA DC
Logic voltage	30 V DC	30 V DC
Logic current	50 mA DC	50 mA DC
Logic leakage current	10 µA DC	10 μA DC
Logic voltage drop	200 mV DC	100 mV DC
Maximum pickup/dropout delay	20 ms / 30 ms	1 ms / 1 ms
Maximum switching frequency	10 Hz	1 kHz
Mains frequency	47–63 Hz	-
Isolation voltage of input/output	4 kV _{eff.} (1 sec.)	4 kV _{eff.} (1sec.)
Capacity of input/output	8 pF	8 pF
Overvoltage category		
Degree of pollution		
Ambient temperature	-30 °C+40 °C	-30 °C+40 °C
Storage temperature	−40 °C+100 °C	-40 °C+100 °C
Norms/specifications		
Emitted interference/interference immunity		
Accessories		
Pin base	See pin base on page 485	See pin base on page 485

M-PB



Dimensions (mm): W x H x D $16.3 \times 22.3 \times 63.8$

Pin base

Description	Time Destine Ctil stall	
Description	Type Part no. Std. pack	
Solid state relay		
Die beer teen	CD IF 74 000 47F0 0 00	
Pin base input	SR-I5 Z1.000.4753.0 80	
Pin base output	SR-O4 Z1.000.9153.0 80	
M. I.	050 V 40	
Voltage	250 V AC	
Current	5 A AC	
D'	0 400 400	
Dimensions	See page 492-493	



For use with M-PB relay module boards

Dimensions (mm): W x H x D



230 V AC / 3 A 2 wire output

10.2 x 25.9 x 43.2



60 V DC / 3 A 2 wire output

10.2 x 26.3 x 43.2

Description	Type Part no. Std. pack	Type Part no. Std. pack	
Solid state relay	OAC 3-32 V/24-280 V Z8.000.0156.9 10	ODC 3-32 V/3-60 V Z8.000.0169.8 10	
Wiring diagram, derating curve, limit curve	See pages 492–493	See pages 492–493	
Coil circuit			
Operating voltage	3 – 32 V DC	3 – 32 V DC	
Nominal input current	1 – 22 mA	3 – 32 mA	
Minimum closing voltage	3 V DC	3 V DC	
Maximum opening voltage	1 V DC		
Maximum reverse voltage	6 V DC	6 V DC	
Resistance	1.5 kΩ	1 kΩ	
Switching behaviour			
Switching voltage	24 – 280 V AC	3 – 60 V DC	
Peak off-state voltage	600 Vs	60 V DC	
Critical rate of rise of voltage	100 V/µs		
Maximum effective on-state voltage	1.6 V	1,5 V	
Maximum effective current	3 A	3 A (5 A / 1 sec.)	
Minimum effective current	50 mA	-	
Maximum impulse current (20 ms)	90 Amp	-	
Maximum leakage current	5 mA	1 mA	
Power factor φ	≥ 0.5	-	
Zero sequence voltage switch	yes	-	
l ² t value	42 A ² s	-	
Fusing of solid state relay	FF 2.5 A	FF 2,5 A	
Fusing of load circuit	F 3.15 A	F 3,15 A	
Maximum pickup/dropout delay	11 ms	100 μs / 1 ms	
Maximum switching frequency	-	1 kHz	
Isolation voltage of input/output	4 kV _{eff.}	4 kV _{eff.}	
Capacity of input/output	8 pF	8 pF	
Overvoltage category			
Degree of pollution			
Ambient temperature	-20 °CDerating	-40 °CDerating	
Storage temperature	−40 °C+100 °C	−40 °C+100 °C	
Norms/specifications			
Emitted interference/interference immunity			
Accessories			
Pin base	See pin base on page 485	See pin base on page 485	

M-PB



Dimensions (mm): W x H x D $10.2 \times 26.3 \times 43.2$

200 V DC / 1A 2 wire output

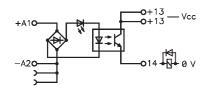
Description	Type Part no. Std. pack	
Solid state relay	ODC 3-32 V/3-200 V Z8.000.0169.9 10	
Wiring diagram, derating curve, limit curve	See pages 492–493	
Coil circuit		
Operating voltage	3–32 V DC	
Nominal input current per input	3–32 mA	
Minimum closing voltage	3 V DC	
Maximum opening voltage	1 V DC	
Maximum reverse voltage	6 V DC	
Resistance	1 kΩ	
Switching behaviour		
Nominal switching voltage	3–200 V DC	
Peak off-state voltage	200 V DC	
Critical rate of rise of voltage		
Maximum effective on-state voltage	1.5 V	
Maximum effective current	1 A (2 A / 1 sec.)	
Minimum effective current	-	
Maximum impulse current		
Maximum residual current	1 mA	
Power factor φ	-	
Zero sequence voltage switch	_	
I ² t value	_	
Fusing, note I2t value	FF 2.5 A	
i using, note izt value	F 1.25 A	
Maximum pickup/dropout delay	100 µs / 1 ms	
Maximum switching frequency	1 kHz	
Isolation voltage of input/output	4 kV _{eff.}	
Capacity of input/output	8 pF	
Overvoltage category	υ μι	
Degree of pollution		
Ambient temperature	-40 °CDerating	
Storage temperature	-40 °C+100 °C	
Norms/specifications	-40 C+100 C	
Emitted interference/interference immunity		
Emitted interrenee/interrenee immunity		
Accessories		
Pin base	See pin base on page 485	
I III Dase	Jee piii base on page 400	

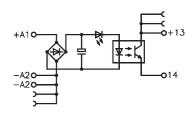


Wiring diagrams: flare - Solid state relays

24 V/48 V DC; 500 mA; 2 A

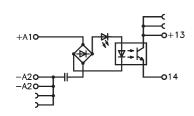
115 V AC/DC / 48 V DC; 500 mA

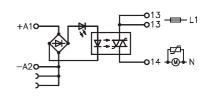




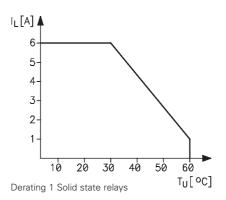
230 V AC / 48 V DC; 500 mA

24 V DC / 230 V AC; 500 mA





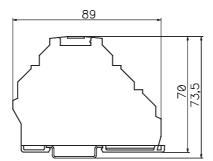
Derating: Solid State Relais





Dimensions of *flare* - Relays

Housing with spring clamp terminals



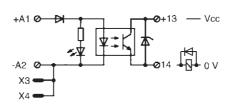
Relay modules Solid state relays WRS

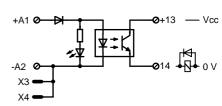
WRS Solid state relays

Wiring diagram

WRS-SSDC-60 V 3 A

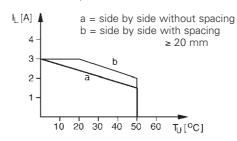
WRS-SSDC-60 V 5 A

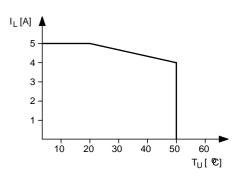




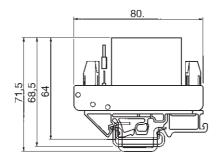
Derating

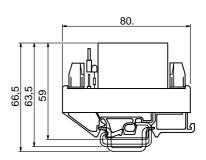
Derating Solid state relay WRS-SSDC 60V 3A





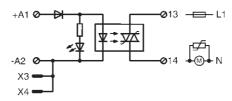
Dimensions

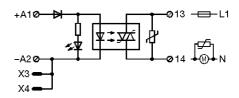






Wiring diagram

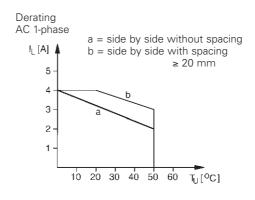


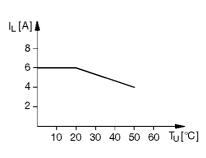


Derating

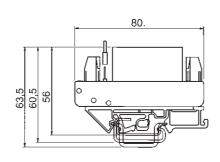
WRS-SSAC1-250 V 4 A

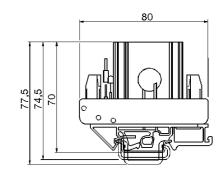
WRS-SSAC1-250 V 6 A





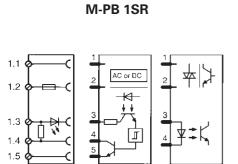
Dimensions

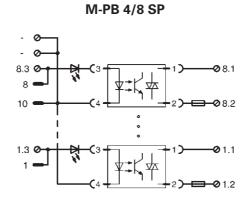


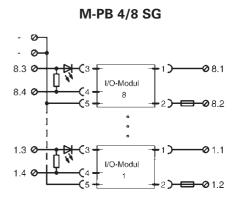




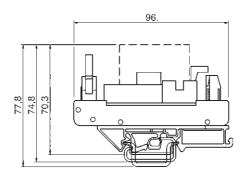
Wiring diagrams: M-PB module boards







Dimensions of module boards

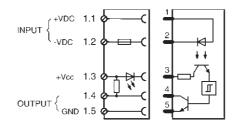


Wiring diagrams: M-PB Solid state relays

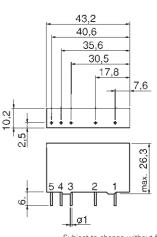
Dimensions

M-IAC 24 / M-IDC 24

M-IAC 24



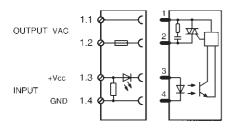
M-IDC 24



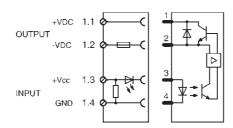


Wiring diagrams + Derating: M-PB Solid state relays

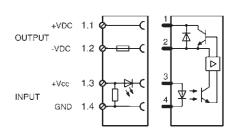
OAC 3-32 V/24-280 V



ODC 3-32 V/3-60 V

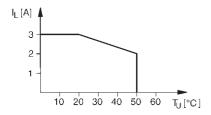


ODC 3-32 V/3-200 V

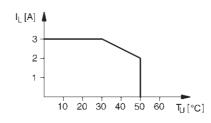


Derating

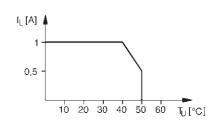
Output 230 V AC



Output 60 V DC

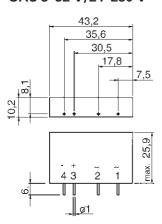


Output 200 V DC

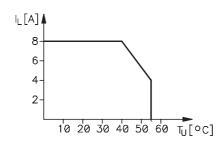


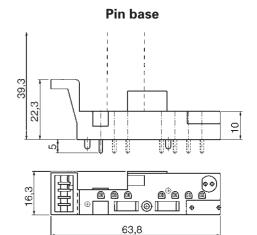
Dimensions

OAC 3-32 V/24-280 V



ODC 3-32 V/3-60 V ODC 3-32 V/3-200 V





Analog measurement technology

analog

Pt100 (RTD)/TC
Sensor Amplifiers
Analog conversion module
Analog isolating module
Multifunctional signal conditioning
Measuring transducer with 3 way isolation
Isolating set point amplifiers
Isolating set point amplifiers – potential free
Constant voltage source

Analog measurement technology offers

- overall modules widths from 12,5 mm
- one modular system
- modules with screw and spring clamp terminals
- Isolating modules with 3 way isolation
- freely configurable modules
- freely adjustable input ranges for RTD Pt100/Pt1000
- modules with CJC compensation
- modules with "Smart Sense" function

All Wieland Components which require general certification are certified, and identified with the logo.

Measurement and control technology

dipos 005

Wieland signal conditioners for measurement and control technology.

The basis of modern automation is the preparation and transfer of physical variables such as temperature, pressure, speed or humidity. These variables are recorded by sensors which use interfaces to simultaneously convert them into electrically measurable, standardised signals. The most frequently used signals are 1-5 V, 0 – 10 V, \pm 10 V, 0–20 mA and 4-20 mA. In the reverse, controller modules or control systems supply these standardised signals as variables for actuators and indicators. There is often a distance between the recording and processing sites, whereby the transmission link invariably lies in a hostile industrial environment.

Wieland signal conditioners offer a reliable solution for the transmission of these relatively weak signals. Resistive, inductive or capacitive interference or earth loops are ruled out due to advanced technology. They ensure that the analog standard signals are electrically isolated. The signal input and output are supplied by integrated DC/DC transformers which are electrically isolated from the mains.

Apart from isolation for standardised signals, temperature input modules for Pt100/RTD sensors and thermocouples are also available, with or without electrical isolation. All the modules are intended for installation on standard DIN rail.





dipos signal conditiners offer the following benefits:

- Overall widths from 12,5 mm
- Modular system
- ☐ Permanent wiring via plug-in modules
- ☐ Settings can be secured against unauthorised access via a sealed cover
- □ 4 kV insulation voltage
- □ 100% earth connection if required
- ☐ Signals or supply voltages can be jumpered
- ☐ Screw or spring-clamp terminals
- ☐ Labelling of individual channels as well as groups

Product ranges

AKB, AKT

Signal conditioners for standardised signals that can be mounted on TS 35 rails, electrically isolated or with 3-way isolation.

UET, dipos UET

Isolating set point amplifiers for generating threshold-dependent switching points. The respective threshold value is represented via an LC display, depending on the module. The measured input value is potential-free.

cores, dipos Pt

RTD Signal conditioner modules for Pt100, Pt1000 and Ni temperature sensors.

The following types are available:

- One temperature input range/one standard signal output
- ☐ Two defined temperature input ranges/two standard signal outputs, input and output characteristics can be freely selected
- ☐ Four freely selectable temperature input ranges/two standard signals output with or without detection of wire breakage
- ☐ Freely adjustable temperature input ranges via DIP switches and standard signal outputs
- ☐ Software configurable module for temperature input ranges and standard signals outputs

dipos TC

Temperature transformer isolator modules for thermocouple elements sensors of type J and K.

The following types are available:

- ☐ One temperature input range/one standard signal output
- ☐ Two defined temperature input ranges/two standard signal outputs, input and output characteristics can be freely selected

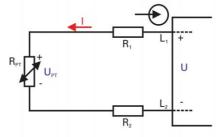
dipos 005

2, 3 or 4 wire connection technology for RTD/Pt sensors

The range provided by Wieland offers devices for all connection technologies. The appropriate technique is used, depending on the accuracy requirement. The individual measurement types are described in detail as follows.

The obvious benefit of a 2-wire connection lies in the minimum wiring costs. It should however be noted that greater errors can occur during measurement using this method. In the case of a Pt100 sensor, an additional resistance of only one ohm is sufficient for an error of 2.5°C. This error acts as an offset (zero displacement). This type of increase in resistance can be caused by cable resistances, contact resistances, soldered connections, plugs etc. In order to compensate for these errors, the Wieland modules offer a zero balance. This does not however prevent errors from occurring during operation that are caused by variations in the ambient temperature.

In practice, a 2-wire connection is only recommended if the application does not

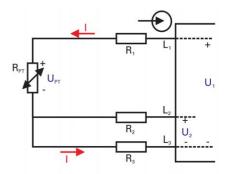


require a high level of accuracy.

In the case of a 3-wire connection, one of the sensor cables is used for measuring the cable and contact resistances. The influence of the additional resistances can thus be largely eliminated. This however only applies under one condition which is often not observed:

The resistances of the three cables and the respective connectors must match exactly.

A differential of 0.39 ohm already causes an error of 1 degree (Pt100). Only the respective state can be equalized by carrying out an adjustment during commissioning. It is not possible to

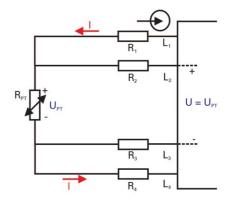


remedy the sources of error that are caused by temperature.

In the case of 4-wire technology, two cables take over the temperature measurement and two further cables measure at high resistance the voltage drop that arises via the resistance-type sensor.

All the effects caused by contact or cable resistances are fully eliminated.

The error is maximum 0.004% per ohm. There is practically no influence produced on the output variable. It is irrelevant if the resistances have different values and are subjected to different conditions due



to the application.

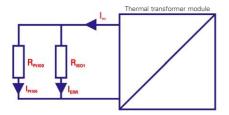
Analog measurement technology RTD (Pt100)/TC dipos

The influence of the insulation resistance on the temperature measurement

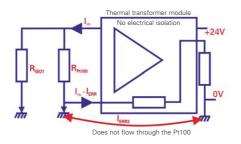
The design of RTD sensors can lead to measuring errors. This is independent of the type and manufacturer. One of the most frequent sources of error is the insulation in the sensor. If it is not sufficient, it can seriously impair the measurement. Causes of a low-resistance insulation can be heat, vibration, physical, chemical or radioactive influences.

Measurement with Pt100

The Pt100 element is a low-resistance sensor. If the insulation resistance is too low, the measurement is influenced.

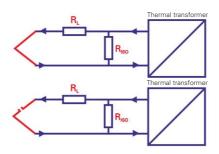


The diagram shows the electrical circuit diagram of the Pt100, connected to a RTD signal conditioner. Apart from the current flowing over the sensor, a minor current normally also flows over the insulation resistance R_{ISO1}. If the insulation resistance falls, the proportion that flows over the insulation resistance also naturally rises. Due to the constant current that is supplied by the RTD signal conditioner, the voltage drop is also reduced. This produces a measured temperature value that is too low. regardless of whether the RTD signal conditioner is operated with or without electrical isolation. During operation without electrical isolation, leakage current can however be caused between the sensor and earth if the insulation resistance is too low. This also leads to a lower temperature display. An isolated RTD signal conditioner rules this out.



Measurement via thermocouples

Limited by the principle of the thermocouples, other errors arise due to the extremely small insulation resistances. The EMF (electromotive force) of thermocouples is not particularly susceptible in the event of a low insulation resistance. The problem lies in the fact that a new measuring point occurs due to the low insulation resistance. If this measuring point is found in the vicinity of the existing point, the influence is negligible. However, if it is located where there is a temperature differential to the measuring point, the measuring error can be considerable. As a

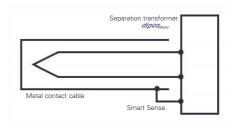


result, it is almost impossible to diagnose a break in the sensor.

The thermocouple signal conditioner *dipos* PROG is microprocessor-controlled and carries out measurements and checks beyond the standard. One of these checks is the display of the insulation resistance of the connected sensor. This function is called "Smart Sense". To implement this function, the sensor must be provided with an additional conductor. In the case of TC sensors, a special sensor is required which contains an additional conductor

that is not used for temperature measurement.

Under certain conditions, it is possible to



use the shield of the cable as the following diagram indicates:

An excessively low insulation resistance is indicated with a flashing LED at the module and the output signal is set to a preselected value. Smart sense not only monitors the sensor state but also the connections from the sensor to the thermal transformer module. This guarantees the complete control of the measuring point up to the thermocouple signal conditioner.

dipos

- Mounting width 12,5 mm
- 3 and 4 wire technology
 Current output can be toggled (0...20 mA and 4...20
- mA)
 Adjustable zero/span
 Detection of wire breakage
- Overload signal at the output, red LED





RTD Signal Conditiner for Pt100 sensors

Approvals: (9), CSA in preparation

Description Output signal	Type Part no. Std. pack	Part no. key for input temperature range
dipos Pt100 RTD measuring transducer		XX = 01 0100 °C**
in 3 and 4 wire technology for Pt100 Sensors		02 0200 °C
010 V	3 wire 82.011.30XX.0 1	03 0300 °C
010 V	4 wire 82.011.40XX.0 1	04 0400 °C
0(4(*))20 mA	3 wire 82.011.37XX.0 1	05 0500 °C**
0(4(*))20 mA	4 wire 82.011.47XX.0 1	20 -50+50 °C**
010 V / 0(4(*))20 mA	3 wire 82.011.38XX.0* 1	21 -100+100 °C**
010 V / 0(4(*))20 mA	4 wire 82.011.48XX.0* 1	31 0150 °C
(*) Supplied state	SEIGHI IONG II	40 -50+50 °C(*) / -100+100 °C
() Supplied State		41 0100 °C(*) / 0500 °C
Wiring diagram, dimensions	See page 501	0100 0(77 0000 0
Technical data	occ page 301	Ordering example:
Measured input		Pt100 3 wire, Input 0400 °C, Output 010 V
Input	Pt100 in accordance with IEC 60751	Part no. 82.011.3004.0
•	-100+100 °C / -50+50 °C	Part 110. 82.011.3004.0
Temperature ranges		* vorsions only avalable with ** temperature recess
Cupply ourrant (P+100)	0100 °C / 150 °C / 200 °C / 300 °C / 400 °C / 500 °C	* versions only avalable with ** temperature ranges
Supply current (Pt100)	ca. 1 mA	
Managered autnut		
Measured output	0. 10 \/ 0/4\. 20 mm A	
Output signal	010 V, 0(4)20 mA	
Maximum load for voltage signal	5 mA	
Load for current signal	0500 Ω (no load error)	
Output signal in event of wire breakage		
Voltage output:	ca. 13 V	
Current output:	ca. 26 mA	
Management		
Measuring accuracy	0.20/ -f first rate /-t 20.00	
Transmission error	≤ 0.2 % of final value (at 20 °C ambient temperature)	
Max. temperature co-efficient	100 ppm/K (ref. final value)	
Load error (deviation at 100 Ω load)	< 0.02 %/100 Ω	
Zero/span adjustment range	ca. 3 % Approx. of scope of measuring range	
General data	21/170 25/1/201	
Supply data	24 V DC +25 % / -20 %, polarised	
Power consumption	ca. 15 mA + output current	
Ambient temperature range	060 °C (100 % capacity utilisation of device, series connected	
Norms, specifications	DIN EN 50178, EMC guideline 89/336/EWG	
Isolation		
EMC		
Emitted interference	EN 60715/KI. B, EN 61000-6-1, CISPR 222/KI. B	
Interference immunity	EN 61000-4-2/3/4/5/6	
Accessories		
Module board, overall width of 12.5mm, 4 connections per side		
Screw terminal	80.060.0010.1 1	
Spring clamp terminal	80.060.0011.1 1	
Coding branch	Z5.563.0453.0 25	
Plug-in jumper	Z8.000.0229.5 50	
Large marker tag, white, blank	04.249.4053.0 500	
Small marker tag		
red, blank	04.249.1053.0 500	
blue, blank	04.249.1553.0 500	
white, blank	04.249.2053.0 500	

Analog measurement technology TC

- Mounting width 12.5 m
 CJC incorporated
 Current output can be toggled (0...20 mA and 4...20 mA)
 Adjustable zero/span
- Detection of wire breakage
- Overload signal at the output, red LED



Thermocouple Signal Conditioner Type J, K Approvals: (10), CSA in preparation

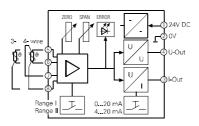
Dimensions (mm) W x H x D 12.5 x 100 x 100

Description Output signal	Type Part no. Std. pack	Part no. key for input temperature range
dipos Signal Conditioner TC		XX = 03 0300 °C
for Type J and K thermocouples		06 0600 °C
010 V / 0(4(*))20 mA	Type J 82.021.08XX.0 1	12 01200 °C
010 V / 0(4(*))20 mA	Type K 82.021.18XX.0 1	31 0150 °C
Wiring diagram, dimensions	See page 501	
Technical data		Ordering example:
Measured input		TC Type K, Input 0100 °C
Input	TypeJ (Fe-CuNi) or Type K (NiCr-Ni) in accordance with	Part no. 82.021.1812.0
Temperature ranges	0150/300/600/1200 °C	CEISE MOTEIN
Measured output		
Output signal	010 V, 0(4)20 mA	
Maximum load for voltage signal	5 mA	
Load for current signal	0500Ω (no load error)	
Output signal in event of wire breakage		
Voltage output:	ca. 13 V	
Current output:	ca. 26 mA	
Measuring accuracy		
Transmission error	≤ 1% of final value (at 20 °C ambient temperature)	
Transmission error for measuring range span ≤ 200K	≤ 2% of final value (at 20 °C ambient temperature)	
Max. temperature co-efficient	200 ppm/K (ref. final value)	
Load error (deviation at 100 Ω load)	< 0,02 %/100 Ω	
CJC compensation	directly at the TC terminal	
Zero/span adjustment range	approx. 5% Approx. of scope of measuring range	
General data		
Supply data	24 V DC +25 % / -20 %, polarised	
Power consumption	ca. 25 mA + output current	
Ambient temperature range	060 °C (100 % capacity utilisation of device, series connected)	
Norms, specifications	DIN EN 50178, EMC guideline 89/336/EWG	
	Ŭ .	
EMV		
Emitted interference	EN 60715/KI. B, EN 61000-6-1, CISPR 222/KI. B	
Interference immunity	EN 61000-4-2/3/4/5/6	
Accessories		
Module board, overall width of 12.5mm, 4 connections per side		
Screw terminal	80.060.0030.1 1	
Spring clamp terminal	80.060.0031.1 1	
Coding branch	Z5.563.0453.0 25	
Plug-in jumper	Z8.000.0229.5 50	
Large marker tag, white, blank	04.249.4053.0 500	
Small marker tag		
red, blank	04.249.1053.0 500	
blue, blank	04.249.1553.0 500	
white, blank	04.249.2053.0 500	

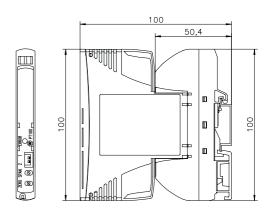
dipos

RTD/Pt100

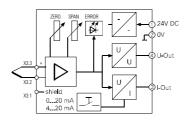
Block diagram

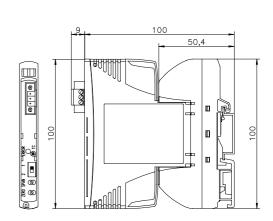


Dimension drawing



TC





Analog measurement technology RTD Signal Conditioner for Pt100

cores



cores Pt100

Dimensions (mm) W x H x D 19 x 75 x 110.8

Approvals: 🖲, CSA



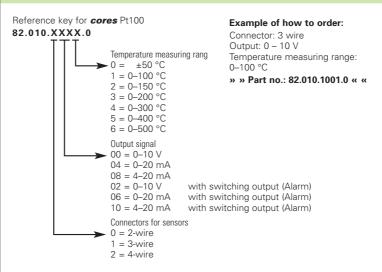
cores Pt100 with alarm output

Approvals: 🗓, CSA

See reference key for <i>cores</i> Pt100 1 See page 510	See reference key for <i>cores</i> Pt100	
See page 510		
oco page o io	See page 510	
	Out page 010	
24 V DC ±20%, polarised	24 V DC ±20%, polarised	
·	20 mA at 24 V and output current	
20 Hill Cat 2 TV and output outront	20 His Cat 2 FV and Satpat Sanone	
Pt100 DIN IEC 751	Pt100 DIN IEC 751	
	ca. 1 mA	
**	2, 3, 4 wire connection	
, .,	See reference key	
,	Protective diodes, RC filter	
Flotective diodes, no litter	Flotective diodes, no litter	
Saa rafaranga kay	See reference key	
·	•	
,	020 mA, 420 mA 100 Ω	
	1 1	
	0500 Ω	
Suppressor diode	Suppressor diode	
	24 V DC, maximum 50 mA	
	0.5 A	
	1.2 A	
	0+12 V	
-	±1% v. E.	
-	Measuring pins behind front flap	
±0.4 % v. E.	±0.4 % v. E.	
≤ 0,02 %/K	≤ 0.02 %/K	
100 Ω	100 Ω	
±0,02%/100 Ω load	±0.02 %/100 Ω load	
±3% of scope of measuring range	±3% of scope of measuring range	
050 °C	050 °C	
−25+55 °C	−25+55 °C	
0.5 – 2.5 mm ²	0.5 – 2,5 mm ²	
0.5 – 4 mm ²	0.5 – 4 mm ²	
horizontal	horizontal	
61000-6-3	61000-6-3	
	61000-6-2	
01000 0 2	01000 0 2	
04 244 1052 0 100	04.244.1853.0 100	
	20 mA at 24 V and output current Pt100 DIN IEC 751 ca. 1 mA 2, 3, 4 wire connection See reference key Protective diodes, RC filter See reference key 020 mA, 420 mA 100 Ω 0500 Ω Suppressor diode	

cores

Temperature measuring range	S1	S2	S8
−50+50 °C	off	off	on
0100 °C	off	off	off
0150 °C	on	off	off
0200 °C	on	on	off
Current output	S3	S4	
020 mA	on	off	
420 mA	off	on	
Input	S5	S6	S7
2 wire	off	on	on
3 wire	on	on	off
4 wire	off	off	off



Caution: The part number determines the setting of the DIP switches within a variant.

They can be subsequently altered. But, care should be taken to ensure that the adjustment is within the parameters of the particular variant.

Functional overview

	Variant 1	Variant 2	Variant 3	Variant 4	Variant 5	Variant 6	Variant 7	Variant 8
Temperature ranges	± 50 °C 0-100 °C 0-150 °C 0-200 °C	0-150 °C	0-300 °C 0-400 °C 0-500 °C	0-300 °C 0-400 °C 0-500 °C	± 50 °C 0–100 °C 0–150 °C 0–200 °C	± 50 °C 0-100 °C 0-150 °C 0-200 °C	0-300 °C 0-400 °C 0-500 °C	0-300 °C 0-400 °C 0-500 °C
Analog signal	0–10 V	0–20 mA 4–20 mA	0–10 V	0–20 mA 4–20 mA	0–10 V	0–20 mA 4–20 mA	0–10 V	0–20 mA 4–20 mA
Alarm output					yes	yes	yes	yes

Caution: Adjustment of the zero and span is required after every change of the DIP switches!

Analog measurement technology Analog interface module



without electrical isolation



Application:
The Wieland interface modules AKB and AKT are used to transfer an analog measured value from one signal format to another.

electrical isolation Dimensions (mm) W x H x D 16.5 x 60.5 x 90.5

Approvals: (1), CSA

Std. pack	Part no.	Part no.	Part no.	Part no.
1 -10+10	/ -	_	_	_
1 010	/ -	_	57.806.0053.0	57.806.1553.0
1 020 m	4 -	57.806.0253.0	_	_
1 420 m	4 –	57.806.0353.0	_	_
Outpu	t –1010 V	010 V	020 mA	420 mA
0.1		AKD 00 A /40 V		
Other signals on request	Ordering example:	AKB 20 mA / 10 V		
		57.806.0253.0		
MC-1	0			
Wiring diagram, sample application Technical data	See page 510			
Operating voltage	24 V DC ± 20%, polarise	nd		
Typical power consumption (Output signal 20 mA)	24 V DC ± 20%, polarise	eu		
at 19 V DC				
at 24 V DC	22 12 22 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ant		
at 29 V DC	ca. 12 mA + output curr	CIIL		
Input				
Input resistance:	> 1 MO			
for standard voltage for standard current	> 1 MΩ 49.9 Ω			
	45.5 12			
Maximum permitted input signal	60 V			
for standard voltage				
for standard current Voltage drop at 20 mA	70 mA (3,5 V)			
	LC-Filter			
Input protection against voltage peaks Output	LC-Filler			
Output load:				
for maximum standard voltage	5 mA (RL ≥ 100 kΩ, see	. D\		
for standard current	0500 Ω (load)	: n _i /		
Maximum load error (adjustment at 100 Ω)	0300 Ω (100α)			
iviaximum load error (adjustment at 100 \$2)	0.02 % / 100 \$2			
Output protection against external voltage	Z-Diode			
Transfer procedure				
Static transmission error at 20 °C	< 0.2 % v. E.			
Temperature coefficient	< 0.015 %/K			
Effect of load impedance at current output	0.02 % / 100 Ω			
Limit frequency: (sinus 100%)				
at sinus 100%	20 kHz			
at ± 10 V	10 kHz			
Typical effect of frequency on transfer	1 % / kHz; 2°el / kHz			
Isolation				
All terminals to earth	2 kV _{eff.}			
Temperature range				
Operating temperature range for 24 V				
vertical installation without space	050 °C			
vertical installation with spacing of 20 mm	060 °C			
Storage temperature	−40+85 °C			
Wire range	20 – 10 AWG			



with signal and supply isolation



Analog interface module with electrical isolation Approvals: (10), CSA

Dimensions (mm) W x H x D 22.5 x 60.5 x 90.5

Std. pack	Part no.	Part no.	Part no.	Part no.
1 –10+10 V	57.806.1053.0*	57.806.2253.0	57.806.5653.0	57.806.2153.0
1 010 V	57.806.2653.0	57.806.1053.0	57.806.0653.0	57.806.0953.0
1 020 mA	57.806.2753.0	57.806.0753.0***	57.806.1153.0**	57.806.1253.0
1 420 mA	57.806.5553.0	57.806.0853.0	57.806.1353.0	57.806.1153.0′
Output	-1010 V	010 V	020 mA	420 mA
Other signals on request	Ordering example:	AKT ±10 V / ±10 V	* contains transfer 0.	10.1/ / 0 10.1/
Other signals on request	Ordering example.	57.806.1053.0	** contains transfer 4.	
Wiring diagram, sample application		57.600.1033.0		r –20+20 mA / –10 V+10
Technical data	See page 510		can also be used to	1 -20+20 IIIA / -10 V+10
Operating voltage	24 V DC ± 20%, polarise	h		
Typical power consumption (Output signal 20 mA)	24 V DC ± 20 /6, polarise	:u		
at 19 V DC	117 mA			
at 24 V DC	88 mA			
at 29 V DC	72 mA			
	/Z IIIA			
Input				
Input resistance:	1 MO			
for standard voltage	1 ΜΩ			
for standard current	49.9 Ω			
Maximum permitted input signal	001/			
for standard voltage	60 V			
for standard current	70 mA (3.5 V)			
Voltage drop at 20 mA	1 V			
Input protection against voltage peaks	LC-Filter			
Output				
Output load:				
for standard voltage maximum	5 mA (RL ≥ 100 kΩ, see	R _i)		
for standard current	0500 Ω (load)			
Maximum load error (adjustment at 100 Ω)	0.02 % / 100 Ω			
Maximum output ripple (2 output filters)	30 mV _s (40 kHz)			
Output protection against external voltage	Z-Diode(n)			
Transfer procedure	0.10/			
Static transmission error at 20 °C	< 0.1 % v. E.			
Temperature coefficient	< 0.02 % / K			
Effect of load impedance at current output	0.02 % / 100 Ω			
Limit frequency: (Sinus 100%)	20 kHz			
at ± 10 V	10 kHz			
Typical effect of frequency on transfer	1% / kHz; –2°el / kHz			
Isolation	0.4511/			
Input / Output / Supply	3 x 1,5 kV _{eff.} 1 min.			
Input / Output / Supply	3 x 2,5 kV _{eff.} 10 sec.			
Input / Output / Supply	3 x 4 kV _{eff.} 1,2/50 μs			
All terminals to earth	2 kV _{eff.}			
Temperature range				
Operating temperature range for 24 V				
vertical installation without space	050 °C			
	060 °C			
vertical installation with spacing of 20 mm				
Storage temperature	40+85 °C			
	40+85 °C 20 – 10 AWG			

Analog measurement technology Isolating set point amplifier

with 2 contact outputs

Important note for user:

The relay outputs must be supplied from the same phase (e.g. L1).

Can only be mounted vertically due to the internal relays

Dimensions (mm) W x H x D 22,5 x 60,6 x 90,5

Switch output Low (↓) 3

Setpoint potentiometer Hi (\uparrow) Setpoint potentiometer Low (\downarrow) Switch output Hi (↑) 2

> For UL: Input to be supplied from Listed Class II Power Supply

Isolating set point amplifier with LCD display or measuring points

Approvals: (II), CSA

Display selector

switch

Description	Type Part no. Std. pack	Type Part no. Std. pack
with measuring points	UET ±10 V* 57.802.1053.0 1	· ·
		UET 20 mA** 57.806.1253.0 1
with LCD display	UET/LCD ±10 V* 57.802.2053.0 1	
		UET/LCD 20 mA** 57.802.2253.0 1
	*	
Versions with other input data available on request	* contains standard signal 010 V	** contains standard signal 420 mA
Wiring diagram	See page 513	See page 513
Technical data	UET ±10 V	UET 20 mA
Operating voltage	24 V DC ±20%,polarised	24 V DC ±20%, polarised
Power consumption at 24 V, 2 active relays	ca. 40 mA + output currents	ca. 40 mA +output currents
Potential free input		
Measured input	±19.99 V	±19.99 mA
Input resistance	1 ΜΩ	100 Ω
Maximum permitted input signal	±50 V	±50 mA (±5 V)
Input protection (interference suppression)	LC-filter	LC-filter
Measuring points for external multimeter		
on measured input potential (for UET)	±1.99 V (acc. ±19,9 ±1.99measured signal)	±1.99 V (acc. ±19.9 V Measured signal)
Digital display, LCD 31/2 digit	with sign and dimension	with sign and dimension
Character height	5 mm	5 mm
Accuracy of display		
at 20 °C	±2 digit	±2 digit
at 060 °C	±5 digit	±5 digit
Display of range	±19.99 V	±19.99 mA
Resolution	10 mV	10 μA
Setpoint adjustment range	±19.99 V	±19.99 mA
Switch outputs		
Switching voltage	24 V DC	24 V DC
Maximum switching current	2 A	2 A
Switching hysteresis	ca. ±20 mV	ca. ±20 μA
	ca. ±10 mV	·
Reproducibility of switching points Reaction time	ca. ±IU IIIV	ca. ±10 μA
Pickup delay	7 ms	7 ms
Dropout delay	5 ms	5 ms
Contact	2 x 1 make contact (SPST, N. O.)	2 x 1 make contact (SPST, N. O.)
Contact material	AgCdO + 1 μ Au	AgCdO + 1 µ Au
222	9500 p	7,9000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Isolation		
input and supply	500 V DC	500 V DC
contact and input	500 V DC	500 V DC
contact and supply	-	-
open contact	750 V _{eff.}	750 V _{eff.}
Isolation against mounting rail	2 kV _{eff.}	2 kV _{eff.}
Temperature range		
Operating temperature range, series connected at		
Vertical installation without spacing	050 °C	050 °C
Vertical installation with spacing of 20 mm	060 °C	060 °C
Storage temperature	-40+85 °C	-40+85 °C



Setpoint potentiometer Hi (↑) Setpoint potentiometer Low (↓)

Switch output Hi (1) 2, 5 Switch output Low (↓) 3, 4

with 2 potential free contact outputs

Position 1+4: Measured value/

actual value
Position 2: Setpoint "LO" (↓) Position 3: Setpoint "HI" (1)

View from underneath

Caution: It is permitted to install the device vertically due to the relays

Dimensions (mm) W x H x D $29 \times 60,6 \times 90,5$



For UL: Input to be supplied from Listed Class II Power Supply



Isolating set point amplifier, potential free

with LCD display or measuring points

Approvals (4), CSA

Description	Part no.	Std. pack	Part no.	Std. pack	Part no.	Std. pack
with measuring points UET-P ±	199 mV 57.802.1453.0	1				
UET-P ±	10 V*		57.802.1153.0	1		
UET-P 2					57.802.1353.0	1
	CD ±10 V*		57.802.2153.0	1		
	CD 20 mA**				57.802.2353.0	1
Versions with other input data available on	request		* contains standar	d signal 010 V	** contains stand	ard signal 420 m
Wiring diagram	See page 513		See page 513		See page 5/111	
Technical data	UET-P ±199 mV		UET-P ±10 V		UET-P 20 mA	
Operating voltage	24 V DC ±20%,	polarised	24 V DC ±20%,	polarised	24 V DC ±20%,	polarised
Power consumption at 24 V, 2 active relays	ca. 40 mA + out	put currents	ca. 40 mA + ou	tput currents	ca. 40 mA + ou	utput currents
Potential free input						
Measured input	±19.99 mA		±19.99 mA		±19,99 mA	
Input resistance:	1 ΜΩ		1 ΜΩ		100 Ω	
Maximum permitted input signal	±50 V		±50 V		±50 mA (±5 V)	
Input protection (interference suppression)	LC-Filter		LC-Filter		LC-Filter	
Measuring points for external multimeter						
on measured input potential (for UET)	±1.99 V (acc. ±19,9 V n	neasured signal)	±1.99 V (acc. ±19.9 V	measured signal)	±1.99 V (acc. ±19.9	V measured signal)
Digital display, LCD 31/2 digit		,	with sign and dime		with sign and din	
Character height			5 mm		5 mm	
Accuracy of display						
at 20 °C			±2 digit		±2 digit	
at 060 °C			±5 digit		±5 digit	
Display of range	±199,9 mV		±19.99 V		±19.99 mA	
Resolution	100 μV		10 mV		10 μΑ	
Setpoint adjustment range	±199,9 mV		±19.99 V		±19.99 mA	
Switch outputs						
Switching voltage	24 V DC / 230 V A0	C	24 V DC / 230 V A0	C	24 V DC / 230 V /	AC
Maximum switching current	2 A DC / 1 A AC		2A DC / 1 A AC		2A DC / 1 A AC	
Switching hysteresis	ca. 200 μV		ca. 20 mV		ca. ±20 μA	
Reproducibility of switching points	±100 µV		±10 mV		ca.±10 μA	
Reaction time	·					
Pickup delay	7 ms		7 ms		7 ms	
Dropout delay	5 ms		5 ms		5 ms	
Contact	2 x 1 make contac	t (SPST, N. O.)	2 x 1 make contact	t (SPST, N. O.)	2 x 1 make conta	ect (SPST, N. O.)
Contact material	AgCdO + 1 μ Au		AgCdO + 1 μ Au	·	AgCdO + 1μ Au	·
Isolation						
Input and supply	500 V DC		500 V DC		500 V DC	
Contact and input	1.5 kV _{eff.}		1.5 kV _{eff}		1.5 kV _{eff}	
Contact and supply	1.5 kV _{eff.}		1.5 kV _{eff.}		1.5 kV _{eff.}	
open contacts	750 V _{eff.}		750 V _{eff}		750 V _{eff}	
Isolation against mounting rail	2 kV _{eff.}		2 kV _{eff.}		2 kV _{eff.}	
Temperature range						
Operating temperature range, series connecte	d at					
Vertical installation without spacing	050 °C		050 °C		050 °C	
Vertical installation with spacing of	060 °C		060 °C		060 °C	
Storage temperature	-40+85 °C		-40+85 °C		-40+85 °C	

Analog measurement technology Constant voltage source 10 V

- Overall width 12.5 mm
 Output voltage can be set between 9.5 V and 10.5 V
 Detection of wire breakage
 Overload signal at the output, red LED



Constant voltage source dipos_{KSQ} 10 V Approvals: (10, CSA in preparation

Dimensions (mm) W x H x D 12.5 x 100 x 100

Description Output signal	Type Part no. Std. pack	
dipos KSQ 10 V Constant voltage source	dipos κsα 10 V 82.081.0000.0 1	
Wiring diagram, dimensions siehe Seite 513	see page 513	
Technical data		
Measured input		
Operating voltage U _V	24 V DC (1630 V DC), polarised	
Power consumption at $U_V = 24 \text{ V}$	approx. 10 mA + output current	
Tower concumption at 6y = 21 v	approx. 16 Hill 1 datput current	
Measured output		
Output voltage	10 V DC constant, short circuit proof	
Setting range	9.5 V10.5 V DC	
Permitted output load	030 mA	
Short-circuit current	approx. 50 mA	
Maximum residual ripple	10 mV _{ss}	
Output protection	Protective diodes	
Measuring accuracy		
Intrinsic error	± 0.1% of final value (at UV = 24 V,	
IIIIIIIISIC EITOI	and 20 °C ambient temperature)	
	and 20 °C ambient temperature,	
Maximum temperature coefficient	150 ppm/K of final value	
0 111		
General data Isolation	2 kV (terminals to mounting rail)	
	2 kV _{eff.} (terminals to mounting rail) 0 °C+60 °C (at U _V = 24 V)	
Ambient temperature range Storage temperature	-25 °C+60 °C	
	-25 °C+70 °C	
Transport temperature	-25 °C+70 °C	
EMC		
Emitted interference	EN 55022/KI. B, EN 61000-6-1, CISPR 222/KI. B	
Interference immunity	EN 61000-4-2/3/4/5/6	
Accessories		
Module board, overall width of 12.5mm, 4 connections per side	00,000,000,4	
Screw terminal	80.060.0020.1 1	
Spring clamp terminal	80.060.0021.1 1	
Coding branch	Z5.563.0453.0 25	
Plug-in jumper	Z8.000.0229.5 50	
Large marker tag, white, blank	04.249.4053.0 500	
Small marker tag	04.249.1053.0 500	
red, blank	04.249.1553.0 500	
blue, blank	04.249.2053.0 500	
white, blank	04.249.2053.0 500	
	The state of the s	The state of the s

dipos



Dimensions (mm) W x H x D 16.5 x 60.5 x 91

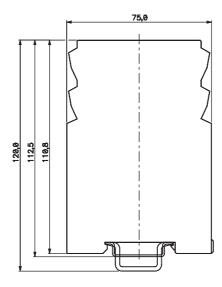
Constant voltage source 10 V Approvals: ①, ⑤, CSA

Description	Type Part no. Std. pack	
	KSQ – 10 V 57.803.8053.0 1	
Wiring diagram, dimensions	See page 513	
villing diagram, dimensions	Occ page 313	
Technical data		
Power supply		
Supply voltage	1530 V DC, polarised	
Power consumption	approx. 10 mA + output current	
Constant voltage output		
Output voltage	10 V DC	Note for application:
Setting range of output voltage	±0,5 V	The module has an adjustment range of + - 0.5 V to
Maximum output current	30 mA	compensate for any inaccuracies within the
		potentiometer.
Influence of load variation output voltage	≤ 1%	
Error on modification of load	≤ 1% (at 0500 Ω)	
influence of ambient temperature	30 ppm/K	
Ambient operating temperature	See derating curve	
Isolation to mounting rail	2 kV _{eff}	
Mounting rail	TS 35	

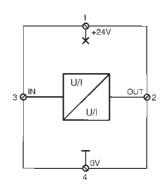
Analog measurement technology

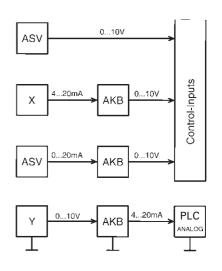
cores, AKT+AKB

cores dimensions

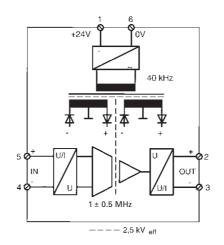


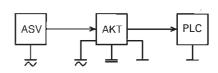
AKB Analog interface module





AKT Analog isolating module





UET, UET-P, diposkso, KSQ, Giposkso, KSQ, KSQ, KSQ, KSQ, KSQ

UET/UET-PIsolating set point amplifiers

HIGH

A

DISPLAY

OUT

2

N

OUT

2

N

OUT

3

UN

OUT

3

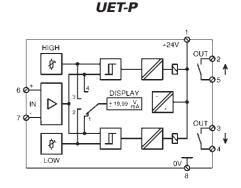
OUT

3

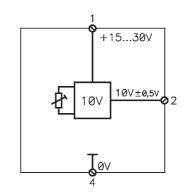
OUT

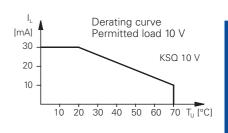
4

UET

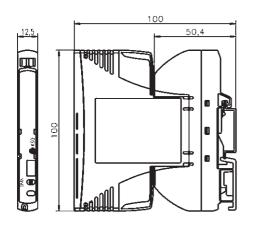


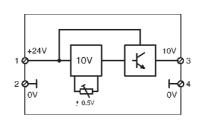
KSQConstant voltage source





dipos Constant voltage source





Power-Supply

power

Single phase/three phase switched mode power supply units Power supply units 24 V/0.3 – 40 A Universal power transformer Rectifier module Fixed voltage regulator

power offers

- Temperature controlled power limit
- Efficiency < 90 %
- Modules with current limiter
- Overload indication
- Compact designs
- Short circuit protection
- Broad band output

All Wieland Components which require CE general certification are CE certified, and identified with the CE logo.

Explanation of important technical terms



Output characteristic

Response characteristic of the power supply when exceeding the specified output values.

The output characteristics are:

☐ Constant current mode

When exceeding the nominal current, the device supplies a constant current independent of the voltage.

☐ Fold-back mode

When exceeding the nominal current, the output voltage decreases to zero while the current subsides.

☐ Hiccup mode

The device switches off when the nominal current is exceeded, but switches on again periodically and checks whether the overload is still applied. When the overload has diminished, the device switches on automatically.

☐ Over-current switch-off mode

When exceeding the nominal current, the device switches off and must be manually switched on again after the overload is removed.

Response time

The period of time required after a defined load change until the output voltage is again within the tolerance range.

Operating temperature

The temperature range that an operating device must not exceed.

Drift

Output voltage changing over time or the temperature.

DC/DC transducer

Device that converts a given direct voltage into a different direct voltage by means of a switching regulator.

Inrush current

The peak current caused during switch-on of a power supply by the charging current of the filter capacitors. It is limited by the input impedance but can also be limited further by special components.

Radio interference, electromagnetic interference

Unwanted high-frequency disturbance variables caused by switching processes within the power supply. We distinguish between conducted and radiated radio interference. Conducted interferences are reduced to permitted values by means of filters, while radiated interferences can be kept within the permitted limits by means of optimized PCB creation and screening.

Insulation voltage

Insulation voltage is the maximum voltage that can be applied between two isolated circuits.

Cooling

Heat transfer from components that are producing power loss. We distinguish between thermal radiation, convection (natural and forced convection with fan), and thermal conduction to an external heat exchanger.

Short-circuit protected

Protection of the power supply against overload and short circuit.

See the output characteristic for various options.

Storage temperature

The temperature range at which a device can be stored (not operated) without being damaged.

Load regulation

Change of output voltage at a defined load change.

Power reduction, derating

Reduction of output power required under certain circumstances such as when exceeding a defined temperature.

Power factor

Ratio between real power and apparent power. In a switch-mode power supply, the power factor normally becomes smaller than 1 due to a non-sinusoidal current input.

Hold-up time

The period of time in which the output voltage is still controlled after the mains voltage has dropped completely.

Line regulation

Change of output voltage at a defined mains voltage change while all the other parameters (load) are kept constant.

Nominal output voltage

Output voltage specified for the device. The voltage can be increased or decreased within specified limits below and above the nominal value.

Temperature coefficient

Output voltage change depending on the temperature.

Ambient temperature

Temperature of the steady air around the device. It is normally measured within a radius of approx. 10 mm around the operating device.

Overshoot

Increase of the output voltage exceeding the specific value due to a rapid load change.

Overcurrent limitation

Protective mechanism against overload of the power supply due to excessive output current. Also see short-circuit current.

Efficiency

Relation between output power and input power, normally indicated at full load and nominal input voltage. Efficiency is one of the most important features when evaluating a power supply.

The difference between input power and output power is converted into heat. Any increase in efficiency therefore results in the heat load on the components being reduced and the service life of the device being increased. Even small improvements in efficiency will result in drastic changes in the service life.

Wipos

wipos switch-mode power supplies – Power competence for any control cabinet

Power supplies are the heart of any control cabinet. They safeguard the life of any connected electrical and electronic component. In addition to providing a reliable supply to units under different load cases, the devices themselves must also be safe for the user.

Narrow, but powerful

Knowing that rail space is a key concern for our customers, we designed our new **wipos** power supplies with a very narrow footprint, enabling optimal space utilization in the control cabinet. Our single-phase, rail-mountable devices range from 50 to 480 W and require only 45 mm to 86 mm of rail space.

Your life is important to us

The vertical **wipos** device series, provides a hinged cover for the primary-side connection points. It safely covers all connection points with hazardous contact voltage. Wire entries are clearly marked for safe and easy installation.

Overload problems – non-existent for wipos

wipos incorporates a temperaturecontrolled power limitation function as protection against overload caused by excessive ambient temperatures or unfavorable installation conditions. The output voltage is reduced causing the output power to decrease before the semi-conductors can reach an impermissibly high temperature.

Parallel operation – whatever you want

For special balancing of the output current during parallel operation of several **wipos** devices, the output can be changed. It is set by default in a way that the output voltage is as constant as possible, independent of the load.

The control precision is \pm 1% of the nominal current. For parallel operation, the output is changed in a way that an approximately uniform load distribution is achieved even when considering manufacturing tolerances and slightly different output voltages. The overall residual ripple is very low at < 50 mV.

Further features of the **wipos** switch mode power supply series:

- ☐ Power factor correction (PFC, vertical versions) according to EN 61000-3-2
- ☐ Temperature-prompted power limitation
- ☐ Efficiency up to 90%
- ☐ Extended output voltage range of 23 V 30 V
- Output characteristic selectable for output current balancing during parallel operation
- Change of current limitation via internal potentiometer
- ☐ Reduced ripple on the output (< 50 m V)
- ☐ Reduced ramp-up time < 1 s
- Protection against battery discharge in OFF state during parallel loading operation
- ☐ Red LED to signal overloads
- ☐ Convenient DIN rail mounting, even for 40 A, 3-phase devices
- ☐ Hiccup Mode
- Optional features; remote ON/OFF, overload signal, power failure signal, and output characteristic switchover
- UL-pending, CSA approvals
- ☐ Standards VDE 0805, EN 60950, IEC 950, UL 1950, safety extra-low voltage (SELV) EN 60950, EN 55011, EN 61000-6-1/-2, EN 55022 class B

Custom devices and solutions also available.

Single-phase switch-mode power supplies vertical design **VVIPOS**



24 V / 2 A Primary switch-mode regulator (€; Approvals: (10), CSA and (20) pending 45 x 72 x 105

24 V / 5 A

Primary switch-mode regulator C €; Approvals: (♣), □ and CSA pending 70 x 138 x 139

Dimensions (mm): W x H x D

Description	Type Part no.	Type Part no.
48 W	power supply, 24 V / 2 A 81.000.6010.0	
120 W		power supply, 24 V / 5 A 81.000.6030.0
240 W		
480 W		
Output power, current limitation characteristic	see graphs on page 530	see graphs on page 530
Input		
Nominal input voltage	110-230 V _{AC} , 47-63 Hz (universal input)	115/230 V _{AC} , 47–63 Hz (selectable input)
<u> </u>	1	
Input voltage range	94–265 V _{AC}	93–132 V _{AC} , 187–265 V _{AC}
Nominal input current	0.6 A at 230 V _{AC} /1.1 A at 115 V _{AC}	0.9 A at 230 V _{AC} /2.2 A at 115 V _{AC}
Input current peak	I/t < 1.5 A/s	< 30 A
Power factor cos φ	0.45 capacitive at 230 V _{AC} /0.5 capacitive at 115 V _{AC}	0.5 capacitive at 230 V _{AC} /0.58 capacitive at 115 V _{AC}
PFC standard (harmonics)	-	EN 61000-3-2
Output		
Output voltage	24 V ±3%	24 V ±1 %
Typical output setting range	-	22–30 V DC
Output direct current	0–2 A	0–5 A
Max. power output	-	120 W (when set to 30 V max. 4 A)
Ripple	< 50 mV	< 50 mV
Typical current limitation	2.5 A	6 A
Parallel operation	ves	yes
Efficiency, typical	89%	89%
Hold-up time	> 70 ms / 230 V _{AC} ; > 10 ms / 115 V _{AC}	> 20 ms / 230 V _{AC} ; > 15 ms / 115 V _{AC}
Line regulation	< 0.2% at UON ±15%	< 0.2% at UON ±15%
Load regulation	< 1% at 0 A -> >I _{nominal}	< 1% at 0 A -> >I _{nominal}
Dynamics Dynamics	< 2 ms at 10 <> s I _{nominal}	< 2 ms at 10 <> >1 _{nominal}
Current limitation	permanently short-circuit proof (see graphs on page 530)	permanently short-circuit proof (see graphs on page 530)
Overrun-proof/open-circuit proof	yes	yes
Output overcurrent switch-off	yes	yes
Output security	VDE 0805/EN 60950/IEC 950/UL 1959	VDE 0805/EN 60950/IEC 950/UL 1959
Class of Protection	safety extra-low voltage (SELV) EN 60950	safety extra-low voltage (SELV) EN 60950
Degree of protection	class I at 149002-31001/149002-21001	class I at 149002-31001/149002-21001
Additional data, standards	IP 20	IP 20
Leakage current	< 0.25 mA (47—63 Hz mains frequency)	< 0.75 mA (47—63 Hz mains frequency)
Ambient temperature	-10 °C+70 °C at free convection	-10 °C+70 °C at free convection
Power derating	2.5%/K from +60 °C (see graphs on page 530)	2.5%/K from +60 °C (see graphs on page 530)
Storage temperature	−25 °C+85 °C	−25 °C+85 °C
EMC CE-certified	EN 55011, EN 61000-6-1/-2	EN 55011, EN 61000-6-1/-2
	EN 55011/EN 55022 class B	EN 55011/EN 55022 class B
	8 KV contact discharge, 15 KV air discharge	8 KV contact discharge, 15 KV air discharge
	10 V/m	10 V/m
	4 kV input, 2 kV output / capacitive coupling	4 kV input, 2 kV output / capacitive coupling
	4 KV unbalanced, 4 KV balanced	4 kV unbalanced, 4 kV balanced
	10 V, 150 kHz80 MHz	10 V, 150 kHz80 MHz
Weight	approx. 0.2 kg	approx. 0.9 kg
Installation	slide for mounting to DIN rail DIN EN 60715	slide for mounting to DIN rail DIN EN 60715
Installation position	panel-mounted; input connectors on top, output conn. at the	panel-mounted; input connectors on top, output conn. at the
	bottom	bottom

Wipos

Dimensions (mm): W x H x D



24 V / 10 A Primary switch-mode regulator C €; Approvals: ((0), CSA and ((0)) pending 70 x 153.5 x 164



24 V / 20 A

Primary switch-mode regulator
(\(\xi \); Approvals: (\(\widetilde{0} \), CSA and (\(\widetilde{0} \) pending
86 \(\times 233 \times 173 \)

Description	Type Part no. Std. pack	Type Part no. Std. pack
48 W		
120 W		
240 W	mains power supply 24 V / 10A 81.000.6040.0 1	
480 W	and the state of t	power supply 24 V / 20 A 81.000.6050.0 1
		processing / versions
Output power, current limitation characteristic	see page 10	see page 10
Input		
Nominal input voltage	115/230 V _{AC} , 47–63 Hz (selectable input)	230 V _{AC} , 47–63 Hz
Input voltage range	93-132 V _{AC} , 187-265 V _{AC}	190-265 V _{AC}
Nominal input current	1.8 A at 230 V _{AC} /4.2 A at 115 V _{AC}	3.0 A at 230 V _{AC}
Input current peak	< 30 A	< 30 A
Power factor cos φ	0.5 capacitive at 230 V _{AC} /0.58 capacitive at 115 V _{AC}	0.82 capacitive at 230 V _{AC}
PFC standard (harmonics)	EN 61000-3-2	EN 61000-3-2
Output		
Output voltage	24 V ±1%	24 V ±1%
Typical setting range	22–30 V DC	23-29 V DC
Output direct current	0-10 A	0-20 A
Max. power output	240 W (when set to 30 V max. 8 A)	480 W (when set to 29 V max. 16 A)
Ripple	< 50 mV	< 50 mV
Typical current limitation	12 A	22 A
Parallel operation	yes	yes
Efficiency, typical	90%	89%
Hold-up time	> 35 ms / 230 V _{AC} ; > 30 ms / 115 V AC	> 20 ms / 230 V _{AC}
Line regulation	< 0.2% at U _{DN} ±15%	< 0.2% at U _{ON} ±15%
Load regulation	< 1% at 0 A -> >I _{nominal}	< 1% at 0 A -> >I _{nominal}
Dynamics	< 2 ms at 10 <> 90% I _{nominal}	< 2 ms at 10 <> 90% I _{nominal}
Current limitation	permanently short-circuit proof (see graph on page 10)	permanently short-circuit proof (see graph on page 10)
Overrun-proof/open-circuit proof	yes	yes
Output overcurrent switch-off	yes	yes
Output security	VDE 0805/EN 60950/IEC 950/UL 1959	VDE 0805/EN 60950/IEC 950/UL 1959
Output security	safety extra-low voltage (SELV) EN 60950	safety extra-low voltage (SELV) EN 60950
Class of protection	class I at 149002-31001/149002-21001	class I at 149002-31001/149002-21001
Degree of protection	IP 20	IP 20
	< 0.75 mA (47—63 Hz mains frequency)	
Leakage current Ambient temperature	-10 °C+70 °C at free convection	< 3.50 mA (47—63 Hz mains frequency) -10 °C+70 °C at free convection
·		
Power derating Storage temperature	2.5%/K from +60 °C (see graph on page 10)	2.5%/K from +60 °C (see graph on page 10)
Storage temperature EMC CE-certified	-25 °C+85 °C	-25 °C+85 °C EN 55011, EN 61000-6-1/-2
	EN 55011, EN 61000-6-1/-2 EN 55011/EN 55022 class B	EN 55011, EN 61000-6-1/-2 EN 55011/EN 55022 class B
Radio interference suppression		
Static discharge ESD (IEC 1000-4-2)	8 KV contact discharge, 15 KV air discharge	8 KV contact discharge, 15 KV air discharge
Electromagnetic fields (IEC 1000-4-3)	10 V/m	10 V/m
Burst (IEC 1000-4-4)	4 kV input, 2 kV output / capacitive coupling	4 kV input, 2 kV output / capacitive coupling
Surge (IEC 1000-4-5)	4 KV unbalanced, 4 KV balanced	4 kV unbalanced, 4 kV balanced
Conducted interference type (ENV 50141, IEC 1000-4-6)	10 V, 150 kHz80 MHz	10 V, 150 kHz80 MHz
Weight	approx. 1.1 kg	approx. 2.0 kg
Installation	slide for DIN rail mounting DIN EN 60715	slide for DIN rail mounting DIN EN 60715
Mounting position	panel-mounted; input connectors on top, output conn. at the bottom	panel-mounted; input connectors on top, output conn. at the bot

Single-phase switch-mode power supplies horizontal design **Wipos**



24 V / 5 A Single-phase primary switch-mode regulator

C €; Approvals: © and CSA pending 147 x 105 x 86



24 V / 10 A Single-phase primary switch-mode regulator

(€; Approvals: □ and CSA pending 205 x 105 x 86

	147 X 103 X 00		
Description	Type Part no. Std. pack	Type Part no. Std. pack	
120 W	mains power supply 24 V / 5 A 81.000.6031.0 1		
240 W		mains power supply 24 V / 10 A 81.000.6041.0 1	
480 W			
Output power, current limitation characteristic	see graphs on page 530	see graphs on page 530	
Input			
Nominal input voltage	105-250 V _{AC} , 47-63 Hz (universal input)	105-125 V _{AC} / 210-250 V _{AC} , 47-63 Hz	
Input voltage range	97-265 V _{AC} , 47–63 Hz	97-132 V _{AC} / 195-265 V _{AC} , 47–63 Hz, can switched over to solder bridg	
Nominal input current	1.23 A at 230 V _{AC}	4.0 A at 115230 V _{AC} / 2.2 A at 230 V _{AC}	
Input current peak	< 30 A	< 30 A	
Power factor cos φ	0.52 capacitive at 230 V _{AC}	0.52 capacitive at 230 V _{AC}	
Fuse	5 x 20 mm, T 3,15 A / 250 V internal	5 x 20mm, T 6.3 A / 250 V internal	
Output Output voltage	24 V DC ±1%	24 V DC ±1%	
Typical setting range	22.5-27.5 V DC	22.5-27.5 V DC	
Output direct current	0-5 A	0-10 A	
Ripple	< 100 mV	< 100 mV	
Typical current limitation	6 A	12.5 A	
Parallel operation	yes	yes	
Efficiency, typical	86%	89%	
Hold-up time	> 80 ms / 230 V _{AC} ; > 15 ms / 115 V _{AC}	> 15 ms / 230 V _{AC}	
Line regulation	< 0.2% at U _{DN} ±15%	< 0.2% at U _{ON} ±15%	
Regulation	< 1% at 0 A -> >I _{nominal}	< 1% at 0 A -> >I _{nominal}	
Dynamics	< 2 ms at 10 <—> 90% I _{nominal} , overshoot < 2%	< 2 ms at 10 <—> 90% I _{nominal} , overshoot < 2%	
Current limitation	permanently short-circuit proof (see graphs on page 530)	permanently short-circuit proof (see graphs on page 530)	
Overrun-proof/open-circuit proof	yes	yes	
Output overcurrent switch-off	yes	yes	
Output security	VDE 0805/EN 60950/IEC 950/UL 1959	VDE 0805/EN 60950/IEC 950/UL 1959	
	safety extra-low voltage (SELV) EN 60950	safety extra-low voltage (SELV) EN 60950	
Class of protection	class I	class I	
Degree of protection	IP 20	IP 20	
Leakage current	< 0.75 mA (47—63 Hz mains frequency)	< 0.75 mA (47–63 Hz mains frequency)	
Ambient temperature	0 °C+70 °C at free convection	0 °C+70 °C at free convection	
Power derating	2.5%/K from +60 °C (see graph on page 10)	2.5%/K from +60 °C (see graph on page 10)	
Storage temperature	−25 °C+85 °C	−25 °C+85 °C	
EMC CE-certified	EN 61000-6-3/-4, EN 61000-6-1/-2	EN 61000-6-3/-4, EN 61000-6-1/-2	
Radio interference suppression	EN 55011/EN 55022 class B	EN 55011/EN 55022 class B	
Static discharge ESD (IEC 1000-4-2)	8 KV contact discharge, 15 KV air discharge	8 KV contact discharge, 15 KV air discharge	
Electromagnetic fields (IEC 1000-4-3)	10 V/m	10 V/m	
Burst (IEC 1000-4-4)	4 kV input, 2 kV output / capacitive coupling	4 kV input, 2 kV output / capacitive coupling	
Surge (IEC 1000-4-5)	4 KV unbalanced, 4 KV balanced	4 kV unbalanced, 4 kV balanced	
Conducted interference type (ENV 50141, IEC 1000-4-6)	10 V, 150 kHz80 MHz	10 V, 150 kHz80 MHz	
Weight	approx. 0.8 kg	approx. 1.2 kg	
Installation	snap-on DIN rail fixation DIN EN 60715	snap-on DIN rail fixation DIN EN 60715	
Installation position	panel-mounted; input connectors on top, output conn. at the bottom	panell-mounted; input connectors on top, output conn. at the bott	
motaliation position			

Dimensions (mm): W x H x D

Wipos



Dimensions (mm): W x H x D $240 \times 130 \times 86$

24 V / 20 A Single-phase primary switch-mode regulator

(€; Approvals: ௵, and CSA pending

Description	Type Part no. Std. pack	
120 W		
240 W		
480 W	mains power supply 24 V / 20 A 81.000.6051.0 1	
output power, current limitation characteristic	see graphs on page 530	
Input		
Nominal input voltage	210–250 V _{AC} , 47–63 Hz (universal input)	
Input voltage range	195–265 V _{AC} , 47–63 Hz	
Nominal input current	4.2 A at 230 V _{AC}	
Input current peak	< 30 A	
Power factor cos φ	0.53 capacitive at 230 V _{AC}	
Fuse	5 x 20mm, T 10 A / 250 V internal	
Output		
Output voltage	24 V DC ±1%	
Typical setting range	22.5-27.5 V DC	
Output direct current	0-20 A	
Ripple	< 100 mV	
Typical current limitation	25 A	
Parallel operation	yes	
Efficiency, typical	88%	
Hold-up time	> 15 ms / 115 V _{AC}	
Line regulation	< 0.2% at U _{DN} ±15%	
Load regulation	< 1% at 0 A -> >I _{nominal}	
Dynamics	< 2 ms at 10 <—> 90% I _{nominal} , overshoot < 2%	
Current limitation	permanently short-circuit proof (see graphs on page 530)	
Overrun-proof/open-circuit proof	yes	
Output overvoltage switch-off	yes	
Output security	VDE 0805/EN 60950/IEC 950/UL 1959	
	safety extra-low voltage (SELV) EN 60950	
Class of protection	class I	
Degree of protection	IP 20	
Leakage current	< 3.50 mA (47—63 Hz mains frequency)	
Ambient temperature	0 °C+70 °C at free convection	
Power derating	2.5%/K from +60 °C (see graphs on page 530)	
Storage temperature	−25 °C+85 °C	
EMC CE-certified	EN 61000-6-3/-4, EN 61000-6-1/-2	
Radio interference suppression	EN 55011/EN 55022 class B	
Static discharge ESD (IEC 1000-4-2)	8 KV contact discharge, 15 KV air discharge	
Electromagnetic fields (IEC 1000-4-3)	10 V/m burst (IEC 1000-4-4) 4 kV input, 2 kV output / capacitive coupling	
Surge (IEC 1000-4-5)	4 kV unbalanced, 4 kV balanced	
Conducted interference type (ENV 50141, IEC 1000-4-6)	10 V, 150 kHz80 MHz	
Weight	approx. 1.9 kg	
Installation	snap-on DIN rail fixation DIN EN 60715	
Mounting position	panel-mounted; input connectors on top, output conn. at the bottom	

Three-phase switch-mode power supplies – horizontal design **WIPOS**



24 V / 20 A Three-phase primary switch-mode regulator

 $(6; Approvals: {0})$ and CSA pending $240 \times 130 \times 86$

Dimensions (mm): W x H x D



24 V / 40 A Three-phase primary switch-mode regulator

C €; Approvals: c(¶)us, □ and CSA pending 296 x 176 x 86

Description	Type Part no. Std. pack	Type Part no. Std. pack
480 W	mains power supply 24 V / 20A 81.000.6053.0 1	
960 W		mains power supply 24 V / 40 A 81.000.6063.0 1
Output power, current limitation characteristic	see graphs on page 530	see graphs on page 530
Input		
Nominal input voltage	3 x 360–500 V _{AC} , 47–63 Hz	3 x 360–500 V _{AC} , 47–63 Hz
Input voltage range	3 x 340-550 V _{AC} , 47-63 Hz	3 x 340-550 V _{AC} , 47-63 Hz
Nominal input current	3 x 1.5 A at 3 x 400 V _{AC}	3 x 3 A at 3 x 400 V _{AC} , 47–03 Hz
Input current peak	< 50 A	< 50 A
Power factor cos w	0.53 capacitive at 400 V _{AC}	0.53 capacitive at 400 V _{AC}
rowel lactor cos w	0.55 capacitive at 400 v _{AC}	0.53 capacitive at 400 V _{AC}
Output		
Output voltage	24 V DC ±1%	24 V DC ±1%
Typical setting range	22.5-27.5 V DC	22.5-27.5 V DC
Output direct current	0-20 A	0-40 A
Ripple	< 100 mV	< 100 mV
Typical current limitation	25 A	45 A
Parallel operation	yes	yes
Efficiency, typical	90%	90%
Hold-up time	> 5 ms / 400 V _{AC}	> 5 ms / 400 V _{AC}
Line regulation	< 0.2% at U _{ON} ±15%	< 0.2% at U _{oN} ±15%
Load regulation	< 1% at 0 A -> >I _{nominal}	< 1% at 0 A -> >I _{nominal}
Dynamics	< 2 ms at 10 <> 90% I _{nominal} , overshoot < 2%	< 2 ms at 10 <> 90% I _{nominal} , overshoot < 2%
Current limitation	permanently short-circuit proof (see graphs on page 530)	permanently short-circuit proof (see graphs on page 530)
Overrun-proof/open-circuit proof	yes	yes
Output overvoltage switch-off	yes	yes
Output security	VDE 0805/EN 60950/IEC 950/UL 1959	VDE 0805/EN 60950/IEC 950/UL 1959
	safety extra-low voltage (SELV) EN 60950	safety extra-low voltage (SELV) EN 60950
Class of protection	class I	class I
Degree of protection	IP 20	IP 20
Leakage current	< 3.50 mA (47—63 Hz mains frequency)	< 3.50 mA (47-63 Hz mains frequency)
Ambient temperature	0 °C+70 °C at free convection	0 °C+70 °C at free convection
Power derating	2.5%/K from +60 °C (see graphs on page 530)	2.5%/K from +60 °C (see graphs on page 530)
Storage temperature	-25 °C+85 °C	-25 °C+85 °C
EMC CE-certified	EN 61000-6-3/-4, EN 61000-6-1/-2	EN 61000-6-3/-4, EN 61000-6-1/-2
Radio interference suppression	EN 55011/EN 55022 class B	EN 55011/EN 55022 class B
Static discharge ESD (IEC 1000-4-2)	8 KV contact discharge, 15 KV air discharge	8 KV contact discharge, 15 KV air discharge
Electromagnetic fields (IEC 1000-4-3)	10 V/m	10 V/m
Burst (IEC 1000-4-4)	4 kV input, 2 kV output / capacitive coupling	4 kV input, 2 kV output / capacitive coupling
Surge (IEC 1000-4-5)	4 KV unbalanced, 4 KV balanced	4 kV unbalanced, 4 kV balanced
Conducted interference type (ENV 50141, IEC 1000-4-6)	10 V, 150 kHz80 MHz	10 V, 150 kHz80 MHz
Weight	approx. 1.9 kg	approx. 3.6 kg
Installation	snap-on DIN rail fixation DIN EN 60715	snap-on DIN rail fixation DIN EN 60715
Installation position	panel-mounted; input connectors on top, output conn. at the bottom	panel-mounted; input connectors on top, output conn. at the botto

Power Supply with overload protection and short circuit protection

power supply



Power supply unit 24 V / 0,3 A unregulated

Approvals: CSA 70.5 x 80 x 66



Power supply unit 24 V / 1 A regulated

138 x 80 x 95

Dimensions	(mm):	Wx	$H \times D$

Description	Type Part No. Box Qty	Type Part No. Box Qty		
	WRS-T115/230-399M 81.000.3000.0 1	WPS-115/230-24 V1A 81.000.3010.0 1		
Note for user:				
Before commissioning the power supply units,				
an external wire jumper (1 mm²) must be inserted				
by the user to select to the input voltage!				
Wiring diagram, dimensions, diagram	See page 531	See page 531		
Input data				
Input voltage (U _F)	115/230 V AC +6%/-10%, 50-60 Hz	115/230 V AC +6%/-10%, 50-60 Hz		
115 V AC**	Insert external jumper between 1–3, 2–4	Insert external jumper between 1–3, 2–4		
230 V AC**	Insert external jumper between 2–3	Insert external jumper between 2–3		
Input current				
at U _E = 115 V AC	ca. 100 mA	ca. 450 mA		
at U _E = 230 V AC	ca. 50 mA	ca. 225 mA		
Power consumption	ca. 8 VA	ca. 52 VA		
Input fuse				
F1 (5 x 20 mm at $U_E = 115 \text{ V AC})**$	160 mA T	500 mA T		
F1 (5 x 20 mm at $U_E = 230 \text{ V AC}$)	80 mA T	250 mA T		
** carried out by the user				
Output data				
Nominal voltage (U _A)	24 V DC (note voltage/current diagram page 531)	24 V DC ±5%		
Nominal current	300 mA (note voltage/current diagram page 531)	1 A		
Ripple voltage (load dependent)	< 2 V _{SS}	type 20 mV		
(at full load operation and min. input voltage)	-	maximum 1,5 V		
Output fuse F2 (5 x 20 mm)	315 mA T	short circuit proof		
Bridging facility using jumper	Negative pole	Negative pole		
(Jumper not included with supply)				
Maximum jumper current	0.5 A	1 A		
Status display	LED	LED		
General data				
Isolation voltage between input/output	4 kV, 50 Hz, 1min	4 kV		
Nominal operating mode	100% ED	100% ED		
Ambient temperature	-25 °C+50 °C	0 °C+40 °C		
Storage temperature	−40 °C+85 °C	-40 °C+85 °C		
Type of connection	Screw terminal	Screw terminal		
Wire range	22 – 12 AWG	22 – 12 AWG		
Finely stranded	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²		
Single core	0.5 – 4 mm ²	0.5 – 4 mm ²		
Safety transformer according to	VDE 0551 (EN 60742)	VDE 0551 (EN 60742)		
Installation on DIN rail	TS 35	TS 35		
Mounting position	horizontal	horizontal		
Accessories	70 000 0100 4 40	70,000,0103,4 10		
Jumper (for bridging facility)	Z8.000.0103.4 10	Z8.000.0103.4 10		

power supply

Power transformer for 10 V, 18 V, 21 V and 24 V AC



Dimensions (mm): W x H x D $83 \times 96 \times 90$

NTU Universal power transformer

Description	Type Part No. Box Qty	
	WPS-115/230-60 VA 87.230.1553.0	1
Note for user:		Suggested circuits for a complete power unit, consisting
Before commissioning the power supply units,		of the universal transformer 87.230.1553.0 and the
an external wire jumper (1 mm²) must be inserted		respective rectifier module and/or fixed voltage regulator
by the user to select to the input voltage!		
Wiring diagram, dimensions diagram	See page 531	
		Output Load Type of Rectifier/fixed Seconda
Input data		voltage current switching voltage regulator voltage
Input voltage (U _F)	115/230 V AC +6%/-10%, 50-60 Hz	V == A V ~
115 V AC**	Insert external jumper between 1–3, 2–4	5 1 regulated 87.230.0453.0 10
230 V AC**	Insert external jumper between 2–3	12 1 regulated 87.230.0553.0 18
Input fuse		15 1 regulated 87.230.0653.0 21
F1 (5 x 20 mm at U _F = 115 V AC)**	0.8 mA T	24 1 regulated 87.230.0753.0 24
F1 (5 x 20 mm at $U_E = 230 \text{ V AC}$)	0.4 mA T	24 2.0 unregulated 87.230.2053.0 18 24 2.5 unregulated 81.000.1000.0 18
1 1 (0 × 20 11111 at 0)	0.11111	24 2.5 unregulated 81.000.1000.0
Suppression circuit	Varistor	
	-3.100	
** carried out by the user		
damed out by the deer		
Output data		
Output voltage (U _a)	10 V, 18 V, 21 V, 24 V AC	
Maximum output current	2.5 A AC	
Maximum output current	60 VA	
Maximum output power	00 VA	
General data		
Isolation voltage between input/output	4 kV	
Nominal operating mode	100% ED	
Ambient temperature	0 °C+40 °C	
Transport temperature	−25 °C+70 °C	
Storage temperature	−25 °C+55 °C	
Type of connection	Screw terminal	
Wire range	22 – 12 AWG	
Finely stranded	0.14 – 2.5 mm ²	
Single core	0.14 – 4 mm ²	
Safety transformer according to	VDE 0551 (EN 60742)	
Protection against accidental contact	DIN 40050 (IP 20)	
Installation on DIN rail	TS 35	
Mounting position	horizontal	
The training promote		

Power Supply Rectifier modules



Dimensions (mm): W x H x D

for generating filtered DC voltage



Rectifier module BGL 2,5 A

38.5 x 80 x 75,7



Rectifier module BGL 3A

61 x 96 x 62.7

Description	Type Part No. Box Qty	Type Part No. Box Qty
•	BGL-25VAC-2,5ADC 81.000.1000.0 1	BGL-40VAC-3ADC 87.230.2053.0 1
Wiring diagram, dimensions	See page 532	See page 532
Input data		
Maximum input voltage	25 V AC	40 V AC
Frequency	50–60 Hz	50–60 Hz
On-state voltage	1.8 V	≤ 2 V
Output data		
Output voltage maximal	40 V DC	63 V DC
Maximum nominal current T _U = 45 °C	2.5 A	3 A
	2.571	
General data	05.00 45.00	25.00 45.00
Ambient temperature	-25 °C+45 °C	-25 °C+45 °C
Storage temperature	-25 °C+85 °C	−25 °C+85 °C
Wire range	22 – 12 AWG	22 – 12 AWG
Finely stranded	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²
Single core	0.5 – 4 mm ²	0.5 – 4 mm ²
Installation on DIN rail	TS 35 or TS 32	TS 35 or TS 32
Mounting position	-	horizontal (Kühlkörper nach oben)
		I .

Power Supply



Fixed voltage regulator with thermal overload protection



Dimensions (mm): W x H x D 61 x 96 x 65.5

Fixed voltage regulator FSR 1 A

Description	Type	Part No. Box (Ωty		
	FSR-25 VAC-5 V1A	87.230.0453.0	1		
	FSR-25 VAC-12 V1A	87.230.0553.0	1		
	FSR-25 VAC-15 V1A	87.230.0653.0	1		
	FSR-25 VAC-24 V1A	87.230.0753.0	1		
Wiring diagram, dimensions, derating	See page 533				
Input data					
Maximum input voltage	25 V AC	25 V AC	25 V AC	28 V AC	
Minimum input voltage at I _L max.	11 V AC	17 V AC	19 V AC	25 V AC	
	60 mA	60 mA	60 mA	60 mA	
Open circuit power consumption Input fuse (5 x 20 mm)	1.6 mA T	1.6 mA T	1.6 mA T	1.6 mA T	
input ruse (5 x 20 mm)	1.0 IIIA I	1.0 IIIA 1	T.O IIIA I	1.0 IIIA I	
Output data					
Output voltage	5 V DC ± 5%	12 V DC ± 5%	15 V DC ± 5%	24 V DC ± 5%	
Nominal current	1 A	1 A	1 A	1 A	
Ripple voltage	30 mV	30 mV	30 mV	30 mV	
Status display	LED	LED	LED	LED	
General data					
Ambient temperature	0 °C+45 °C	0 °C+45 °C	0 °C+45 °C	0 °C+45 °C	
Storage temperature	−25 °C+85 °C	−25 °C+85 °C	−25 °C+85 °C	−25 °C+85 °C	
Wire range	22 – 12 AWG				
Finely stranded	0.5 – 2.5 mm ²				
Single core	0.5 – 4 mm ²				
Installation on DIN rail	TS 35 or TS 32				
Mounting position	horizontal	horizontal	horizontal	horizontal	



With overload protection and short circuit protection



Fixed voltage regulator FSR 3 A

Dimensions (mm): W x H x D 115 x 96 x 81

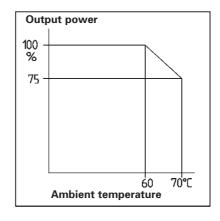
Approvals:

15 x 96 x 81	Approvals:
Description	Type Part No. Box Qty
	FSR-38 VDC-24 V3A 87.230.1953.0 1
Wiring diagram, dimensions	See page 533
Input data	
Maximum input voltage	38 V DC
Minimum input voltage	28 V DC
Open circuit power consumption	60 mA
Output data	
Output voltage (with linear control)	24 V DC ± 4%, short circuit proof
Nominal current	3 A DC
Typical ripple voltage (load dependent)	50 mV _{SS}
Fuse (5 x 20 mm)	MT 3,15 A
Suppression circuit	Diode
Status display	LED green
General data	
Ambient temperature	−25 °C+45 °C
Storage temperature	−25 °C+85 °C
Nominal operating mode	100% ED
Wire range	22 – 12 AWG
Finely stranded	0.14 – 2.5 mm ²
Single core	0.14 – 4 mm ²
Installation on DIN rail	TS 35 or TS 32
Mounting position	horizontal (heat sink at the top)
Weight	approx. 400 g

Power Supply

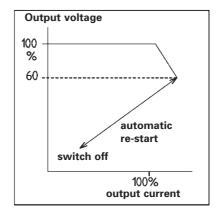
wipos 005

Derating: output power



Current limitation characteristic: Single-phase power supply, vertical design: 2 A

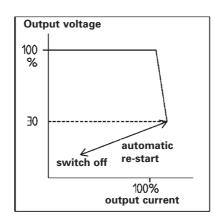
Single-phase power supply, horizontal design: 5 A



Current limitation characteristic:

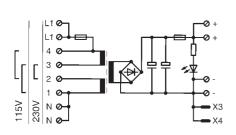
Single-phase power supply, vertical design: 5 A / 10 A / 20 A

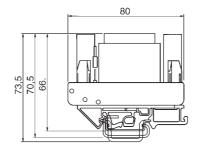
Single-phase/three-phase power supply, horizontal design: 10 A / 20 A / 40 A

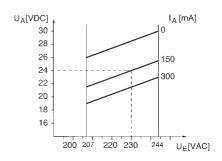


power supply UPD V

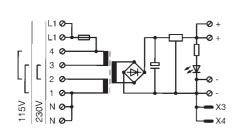
Power supply unit 24 V/0,3 A

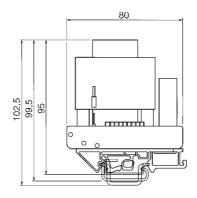




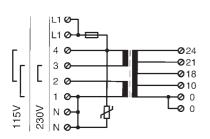


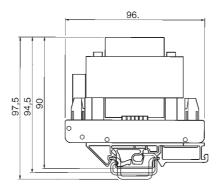
Power supply unit 24 V/1 A





NTU Universal power transformer



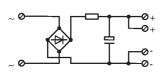


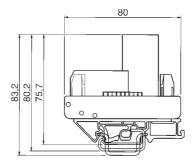
Power Supply



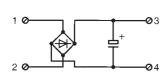
Rectifier modules

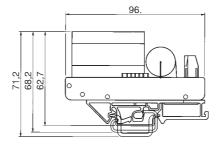
BGL 2,5 A





BGL 3 A

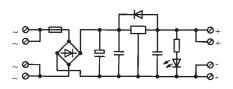


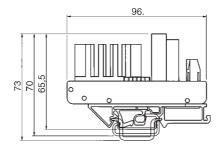


FSR R

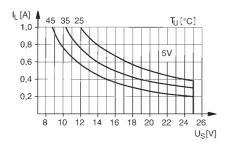
Fixed voltage

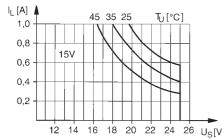
FSR 1 A

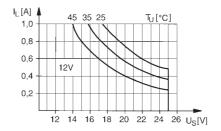


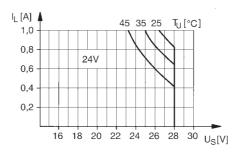


Derating curves

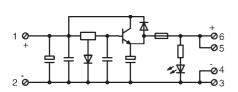


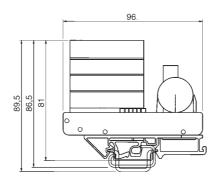






FSR 3 A





Wieland Function Modules function

Electronic contactors
Thermistor overload relay
Lamp test module/fuse module
Centralised fault indication
Three phase system monitoring/fuse monitoring
Rotation indicator
Introduction to SSW RS 232 interface convertor
Interface converter

function offers

- Electronic load relay
- Machine protection via temperature monitoring
- Detection of wire breakage
- Phase failure
- Various test and monitoring modules
- Compact SSW RS 232 (for V.11 and V.24)

All Wieland Components which require $C \in \mathbb{C}$ general certification are $C \in \mathbb{C}$ certified, and identified with the $C \in \mathbb{C}$ logo.

Function module General information CEMOS

General information

cemos

- ☐ Electronic three phase contactor
- □ Electronic reversing contactor
- □ DC motor-driven relay

General

As opposed to mechanical contactors, electronic load relays offer the benefit of a practically unlimited service life and a high operating speed for functions. Optocoupler technology enables a noncontacting, bounce-free and wearresistant switching of phase loads With a switching frequency up to 10 Hz, a considerable increase in economic efficiency can already be seen compared to conventional, electromechanical components. Electronic relays are primarily used as output elements by programmable controllers. An additional RCV protective circuit of the outputs enables a continuously reliable operation.

Electronic three-phase contactor

The solid-state relays can switch inductive loads such as motors on and off during zero voltage operation.

Electronic reversing contactor and DC motor driven relay

Apart from switching on and off, the reversing contactor allows a change in the direction of travel for three-phase inductive motors. The DC motor-driven relay performs the same function for DC motors.

Further characteristics include a reciprocal closing lockout as well as a fixed minimum changeover time between anticlockwise and clockwise rotation.

Thermistor overload relay TMS 101

General

The electronic thermistor overload relay monitors the windings of electrical machines in connection with PTC thermistor detectors. During usage, reliable protection against thermal overload is guaranteed. A bimetal overload trip unit is not required.

The areas of application are:

- Monitoring of motor temperature using short circuit current methodology
- Overload start-up (overload)
- □ Impeded cooling
- Excessive duty rating
- ☐ High ambient temperature
- □ Locked rotors
- Detection of wire breakage
- ☐ Phase failure

Function and structure

The thermistor overload relay TMS 101 evaluates up to six series-connected PTC resistors.

Three-phase inductive motors are usually fitted with three sensors. Pole-changing three-phase inductive motors with separate winding require six sensors. The relay is energised in normal operation i.e. the permitted temperature level has not been exceeded. If the temperature rises above the defined value, which occurs in conjunction with an increase in resistance, the relay drops out. The motor is simultaneously disconnected and the fault indicator lights up.

Due to an internal memory circuit, the motor remains switched off until the reset resistance is reached and the 'reset' button (internal or external) is pressed. Only then is it possible to start up the motor again. To detect a wire breakage, the sensor cables operate using a closed circuit current methodology.

Monitoring modules

General

The increasing automation and centralisation of electrical installations requires more feedback information from the process to guarantee an error-free functional sequence.

Three-phase system monitoring

The most simple and effective way to monitor a three-phase network is to measure the under-voltage. The process involves recording each phase so that a voltage drop is immediately detected. A signal is generated if the voltage falls below 85% of the mains voltage (according to VDE 0108).

Three-phase fuse monitoring

Three-phase induction motors are particularly at risk when a phase fails. The three-phase fuse monitoring is specially designed for monitoring supply leads of three-phase induction motors for which system monitoring is not suitable.

Rotation indicator

The rotation indicator monitors the phase sequence L1-L2-L3 which determines the direction of rotation for three-phase induction motors. If the phase sequence of the monitored three-phase network is incorrect, the relay of the rotation indicator remains open.

Lamp test module

The test module is designed for 14 indicator lights. It is used for:

- ☐ Checking LED + lamp displays
- ☐ Avoiding undetected faults
- Preventing incorrect diagnosis

Fuse module

The module has been designed for 4 miniature fuses for control circuits. The fuse module can be used for 12 to 24 V (with LED failure indicator) or 110 to 220 V (with neon lamps failure indicator).

cemos

Electronic contactors

On/off/reverse switching functions for loads and motors

Zero-sequence voltage switch Short closing/opening times High switching frequency

Dimensions (mm): W x H x D



400 V AC / 2A Electronic three phase contactorApprovals:

LI LZ LJ L R
LI LZ LJ L R
LI LZ LJ L R
LZ LJ L

400 V AC / 2,5A Electronic reversing contactorApprovals:

Description	Туре	Part no. Std. pac	k Type	Part no. Std. pack	
Electronic three phase contactor		80.020.6000.0	1		
Electronic reversing contactor				80.020.6003.0 1	
DC motor contactor					
Wiring diagrams, derating curve, limit curve	See pages 544-5	645	See pages !	544-545	
Input					
Operating voltage	24 V AC/DC +10°	%/-15%	24 V DC ±10	1%/-15%	
Nominal input current AC/DC	ca. 44/21 mA	707-13 70	ca. 23 mA	24 V DC +10%/-15%	
Nominal input current AC/DC Nominal input power	ca. 1 VA/0,5 W		ca. 0.6 W		
Voltage range for "OFF"	010 V AC/DC		010 V DC		
Interlocking of control inputs	010 V AO/DC		ves		
Reversing time (delay) left/right			ca. 100 ms		
Protection circuit of input	Overvoltage prote	ection		protection, polarity reverse protection	
Status display	Green LED	OCTION	Green LED	protection, polarity reverse protection	
Output	GIEEN LLD		GIEEH LED		
Nominal switching voltage	400 V AC		400 V AC		
Maximum switching voltage	500 V AC		500 V AC		
Minimum switching voltage	100 V AC		100 V AC		
Peak reverse voltage	1200 Vs		1200 Vs		
Critical rate of rise voltage	500 V/µs		500 V/µs		
Critical on-state voltage	1.1 V		.,,	1.1 V	
Maximum current	2 A			2.5 A	
Minimum current	150 mA			150 mA	
Maximum peak current (10 ms)	230 A			230 A	
Typical residual current	6 mA			6 mA	
Power factor cos φ	≥ 0.5			≥ 0.5	
Zero-sequence voltage switch	yes		yes		
l ² t value	265 A ² s		265 A ² s		
Semiconductor fuse	FF			FF	
Maximum motor power	0.75 W		1.1 kW		
Protection circuit of output	RCV-circuit		RCV-circuit		
·					
Maximum pickup delay	10 ms		10 ms		
Maximum dropout delay	10 ms			10 ms	
Maximum switching frequency, resistive	10 Hz			10 Hz	
Maximum switching frequency, inductive	5 Hz		2 kHz		
Isolation voltage between input/output	4 kV _{eff}		4 kV _{eff}		
Ambient temperature	0 °C+50 °C		0 °C+50 °C		
Storage temperature	−25 °C+55 °C			−25 °C+55 °C	
Type of protection/mounting rail	IP 20 / TS 35		IP 20 / TS 3		
Wire range	20 – 12 AWG			22 – 12 AWG	
finely stranded	0.5 mm ² – 2.5 mr			0.5 mm ² – 2.5 mm ²	
single core	0.5 mm ² – 4 mm ²	2		0.5 mm ² – 4 mm ²	
Location of mounting rail	horizontal		horizontal	horizontal	
Norms/specifications	VDE 0160		VDE 0160		
Emitted interference	EN 61000		EN 61000		
Interference immunity	EN 61000		EN 61000		
interference difficulty	EN OTOOU		EIN 01000		

Function module DC motor contactor Cemos

Short closing/opening times Wear resistant equipment Electrical isolation



24V DC / 3A DC motor reversing contactor

Dimensions (mm): W x H x D $60.8 \times 80 \times 63$

Approvals:

Description	Type Part no. Std. pack		
Electronic three phase contactor			
Electronic reversing contactor			
DC motor contactor	99.801.3900.9		
Wiring diagrams, derating curve, limit curve	See pages 544-545		
Input			
Operating voltage	24 V DC		
Voltage range for "ON"	1528 V DC		
Voltage range for "OFF"	05 V DC		
Nominal current for "ON"	ca. 10 mA		
Closed circuit current consumption	ca. 25 mA		
Pick up delay	ca. 1 ms		
Protection circuit of input	Polarised diode		
Status display: Start/Stop -H1 and direction -H3	Green LED		
Output			
Nominal switching voltage	24 V DC		
Maximum switching voltage	28 V DC		
Minimum switching voltage	20 V DC		
Maximum switching current	3A DC (Derating)		
Minimum switching current	10 mA		
Motor voltage UA1	Terminal 6		
Motor voltage UA2	Terminal 5		
Motor peak current	6 A (200 ms)		
Typical R _{DS} ON	0,6 Ω		
Fault indicator: excess temperature and overcurrent -H2	Red LED		
Maximum pickup delay	5 ms		
Maximum dropout delay	5 ms		
Isolation voltage between input/output	4 kV _{eff}		
Ambient temperature	-25 °C+50 °C		
Storage temperature	-25 °C+55 °C		
Mounting rail	TS 35 and TS 32		
Wire range, finely stranded/single core	0.5 mm ² – 2.5 mm ² / 0.5 mm ² – 4 mm ² / 22 – 12 AWG		
Wire range (load), finely stranded/single core	0.5 mm ² – 4 mm ² / 0.5 mm ² – 6 mm ² / 22 – 10 AWG		
Location of mounting rail	horizontal		
N. S.	VDF 0400		
Norms/specifications	VDE 0160		
Emitted interference	EN 61000-6-3		
Interference immunity	EN 61000-2		

Important note:

In the case of motors that are controlled by solid-state relays, an additional mechanical contact must be connected in series for safety separation.

This mechanical contact can influence several motors. The protection of the solid state component must be guaranteed by a rapid reacting fuse.

Thermistor overload relay



- · with detection of wire breakage
- for onerous start up
- · for high duty rating
- · for high ambient temperature
- for locked rotors
- for phase failure

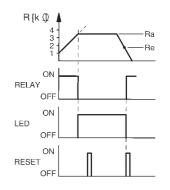


Thermistor overload relay with reset

Dimensions (mm): $w \times H \times D$ 48 x 96 x 60

Description	Type Part no. Std. pack	
	TMS-101-250V5A 87.110.6253.0 1	
Wiring diagram, dimensions	See pages 546	
Input data		
Nominal voltage	230 V AC +6% / –10%, 50–60 Hz	
Power consumption	ca. 2 VA	
Disconnection resistance RA	$3 \text{ k}\Omega \leq \text{R}_A \leq 4 \text{ k}\Omega$	
Reset resistance RE	1.75 kΩ ±10%	
Maximum number of detectors	6 pieces	
External reset button	1 make contact	
Status display	Red LED	
· · · · · · · · · · · · · · · · · · ·		
Output data		
Maximum switching voltage	250 V AC/DC	
Maximum switching current	5 A AC/DC	
Maximum total current (2 simultaneous contacts)	7.5 A AC/DC	
Switching capacity (resistive load)		
at 24 V DC, maximum	120 W	
at 250 V AC, maximum	1250 VA	
Contact arrangements	2 Changeover contacts (SPDT)	
Constal date		
General data	0 °C+40 °C	
Ambient temperature	−25 °C+55 °C	
Storage temperature Transport temperature	-25 °C+55 °C	
Wire range	22 – 12 AWG	
	0.14 – 2.5 mm ²	
finely stranded single core	0.14 – 2.5 mm ²	
Single core		
Installation on mounting rail	TS 35 or TS 32	

Connection example + function of TMS 101



Important note for user:

The relay outputs must be supplied by the same phase (e.g. $\mbox{L1}$)

Function modules Lamp test module/fuse module LPB/SBS

Lamp test module

Checking LED displays Avoiding undetected faults Preventing incorrect diagnosis

Fuse module

4 miniature fuses for control circuits with operation indicator For restricted spaces

Dimensions (mm): W x H x D



Lamp test module

Approvals: 48 x 96 x 92



Fuse module

Approvals: 48 x 96 x 92

Description	Type Part no. Std. pack	Type Part no. Std. pack
	LPB-14L-250V1A 87.040.3053.0 1	SBS-4SI-24V6,3A 87.010.7653.0 2
		SBS-4SI-230V6,3A 87.010.7453.0 2
Wiring diagram, dimensions	See pages 547	See pages 547
Technical data		
Maximum nominal voltage	250 V	250 V
Diode type	1N4007	230 V
Maximum diode current	1 A	
Diode reverse voltage	1000 V	
Typical voltage in forward direction per diode	0.7 V	
Lamp test at terminal	P	
Lamp connection at terminal	L	
Switching operation at terminal	B	
Number of test lamps (can be bridge via P-P)	2 x 7	
rvumber of test lamps (call be bridge via r-r)		
		87.010.7653.0 87.010.7453.0
Nominal voltage		12–24 V AC/DC
Maximum nominal current per fuse		6.3 A 6.3 A
Maximum total current over 4 fuses		18 A 18 A
Maximum fuse capacity		1.6 W* 1.6 W*
Maximum fuse capacity over 4 fuses		4.8 W 4.8 W
Maximum current for disrupted fuse		15 mA 0.5 A
Number of fuse holders		4 4
Dimensions of fuse holders		5 x 20 mm 5 x 20 mm
Touching voltage of fuse holders		IEC 257, DIN 0820 IEC 257, DIN 0820
Status display		LED 24V (red) Neon lamp 110 V
Status display		LLD 24V (red) Neomamp 110 V
		*Note derating!
		Note defailing:
		Fuses not included
		ruses not included
General data		
Ambient temperature	−25 °C+50 °C	−25 °C+50 °C
Storage temperature	−40 °C+55 °C	−40 °C+55 °C
Wire range	22 – 12 AWG	22 – 12 AWG
finely stranded	0.14 – 2.5 mm ²	0.14 – 2.5 mm ²
single core	0.14 – 4 mm ²	0.14 – 4 mm ²
Installation on mounting rail	TS 35 or TS 32	TS 35 or TS 32

Centralised fault indication



For monitoring control systems Possible to locate and eliminate faults rapidly



Centralised fault indication relay Approvals:

48 x 96 x 60

Dimensions (mm): W x H x D



Expansion module for centralised fault indication relay

Approvals: 27 x 96 x 60

Description	Type Part no. Std. pack	Type Part no. Std. pack
Description	Type Part no. Std. pack SSM-7E230V-250V5A 87.030.1053.0 1	
	55M-/E23UV-25UV5A 87.U3U.1U53.U 1	SSM-7E230V 87.010.2053.0 1
Wiring diagrams, dimensions	See pages 548	See pages 548
Input data		
Nominal voltage	230 V AC +6%/-10%, 50-60 Hz	
Input current	approx. 1 mA	approx. 1 mA
Power consumption	approx. 1 VA	
Fault inputs	terminals, 230 V AC +6%/- 10%	terminals (Kl. 17), 230 V AC +6%/-10%
Series-connected inputs	terminals	terminals
Output data		
Maximum switching voltage	250 V AC/DC	
Maximum switching current	5 A AC/DC	
Switching capacity (resistive load)		
at 24V DC, maximum	120 W	
at 230V AC, maximum	1250 VA	
Contact arrangement	1 Changeover (SPDT)	
Ü		
General data		
Ambient temperature	−25 °C+50 °C	−25 °C+50 °C
Storage temperature	-40 °C+85 °C	-40 °C+85 °C
Wire range	22 – 12 AWG	22 – 12 AWG
finely stranded	0.14 – 2.5 mm ²	0.14 – 2.5 mm ²
single core	0.14 – 4 mm ²	0.14 – 4 mm ²
Installation on mounting rail	TS 35 or TS 32	TS 35 or TS 32
Note		Expansion module for 87.030.1053.0:
Terminals N and B ₂ must be bridge prior		Up to 91 further fault inputs can be
to commissioning		connected to the basic module
Impulses <100ms are not detected		
	1	

Function modules Monitoring modules DNU/DSU

Three-phase system monitoring

For voltage monitoring of three-phase systems with neutral conductors. The module will operate at 85% of the mains voltage.

Three-phase fuse monitoring

Specifically for monitoring the supply leads of three-phase inductive motors (400 V/250 V \sim , 50 – 60 Hz)



Three-phase system monitoring

Approvals: 48 x 96 x 60



Three-phase fuse monitoring

Approvals: 48 x 96 x 60

Dimensions (mm): W x H x D

imensions (mm): W x H x D	48 x 96 x 60	48 x 96 x 60		
Description	Type Part no. Std. pack	Type Part no. Std. pack		
with mounting foot for T S35 (for distribution board)	DNU-H-400V-250V4A 86.030.6353.0 1	DSU-400V-250V4A 87.030.6453.0 1		
with mounting foot TS 35 + TS 32	DNU-U-400V-250V4A 87.030.6353.0 1			
Wiring diagram, dimensions	See pages 549	See pages 550		
Innue des				
Input data Nominal voltage	230/400 V AC +6%/-10%, 50-60 Hz	230 V AC +6%/-10%, 50-60Hz		
Power consumption	ca. 4 VA	ca. 4 VA		
System monitoring		3 x 400 V AC		
Operating value	0.85 x U _N	- 3 X 400 V AC		
Pickup delay	approx. 500 ms	ca. 6 s		
Dropout delay	ca. 500 ms	ca. 250 ms		
Switching hysteresis	ca. 5%			
Detection of mains failure		> 900 ms		
Backup fuse	ca. 0.5A	-		
Status display	LED LED	LED		
Output data				
Maximum switching voltage	250 V AC/DC	250 V AC		
Maximum switching current	4 A AC/DC	4 A		
Switching capacity (resistive load)				
at 24 V DC, maximum	100 W	100 W		
at 230 V AC, maximum	1100 VA	1000 VA		
Contact arrangements	2 Changeover contacts (SPDT)	1 Changeover contact (SPDT)		
General data				
Ambient temperature	−10 °C+50 °C	-10 °C+50 °C		
Storage temperature	-40 °C+85 °C	-40 °C+85 °C		
Wire range	22 – 12 AWG	22 – 12 AWG		
finely stranded	0.5 – 2.5 mm ²	0.14 – 2.5 mm ²		
single core	0.5 – 4 mm ²	0.14 – 4 mm ²		
Installation on mounting rail	0.5 A	-		
	00,000,0050,0			
Installation on mounting rail	86.030.6353.0 87.030.6353.0 only on TS 35 TS 35 or TS 32	TS 35 or TS 32		
installation on mounting rail	0111y 011 13 33 13 35 01 13 32	13 33 01 13 32		

Rotation indicator



For monitoring the phase sequence of three-phase inductive motors



Rotation indicator 3 x 400V / 50Hz

Approvals:

Dimensions (mm): W x H x D $48 \times 96 \times 63$

Description	Type Part no. Std. pack	
	DRA-400V-250V3A 81.010.1000.0 1	
Wiring diagram	See pages 551	
Input data		
Nominal voltage	approx 3 x 400 V AC +6%/-10%, 50 Hz	
Power consumption	ca. 2.5 VA	
Dropout voltage	≤ 3 x 100 V AC / 50 Hz	
Pickup delay	< 25 ms	
Dropout delay	< 30 ms	
Switching logic of the relay		
Clockwise	Relay picked up	
Anticlockwise	Relay dropped out	
Output data		
Maximum switching voltage	250 V AC	
Maximum switching current	3 A AC / DC	
Switching capacity (resistive load)		
at 24 V DC, maximum	70 W	
at 250 V AC, maximum	750 VA	
Contact arrangement	2 Changeover contacts (SPDT)	
General data		
Pickup delay	< 25 ms	
Dropout delay	< 30 ms	
Contact material	AgNi	
Endurance		
Mechanical	2 x 10 ⁷ switching operations	
Electrical	1 x 10 ⁵ switching operations at full load	
Test voltage of input/output	2 kV _{eff}	
A 11	200 4000	
Ambient temperature	0 °C+40 °C -40 °C+85 °C	
Storage temperature		
Wire range	22 – 12 AWG	
finely stranded	0.5 – 2.5 mm ²	
single core	0.5 – 4 mm ²	
Installation on manuating 0	TC 2F or TC 22	
Installation on mounting rail	TS 35 or TS 32	

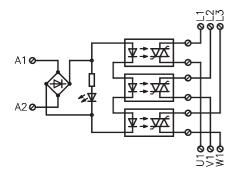
Function modules



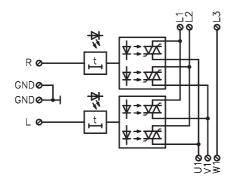
Electronic contactors

Wiring diagrams and Derating curves

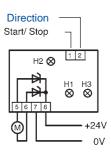
Electronic three phase contactor



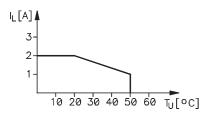
Electronic reversing contactor



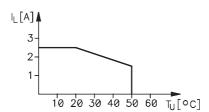
DC motor-reversing contactor



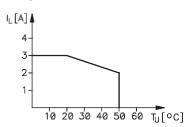
Derating of three phase contactor



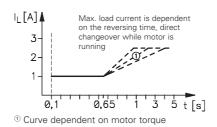
Reversing contactor in static mode



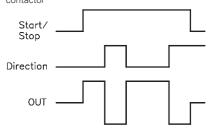
Derating curve:



Reversing contactor in dynamic mode



Timing diagram for DC motor-reversing contactor

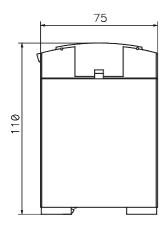




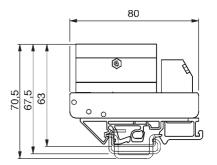
Electronic contactors

Dimensions

Electronic three phase contactor and Electronic reversing contactor



DC motor-reversing contactor

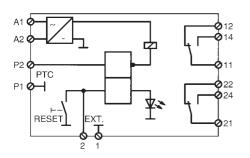


Function modules

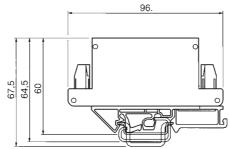


Thermistor overload relay TMS 101

Wiring diagram



Dimensions

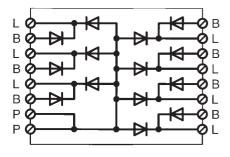




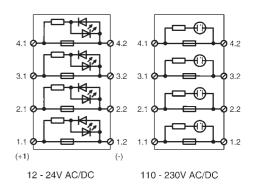
Lamp test module + Fuse module

Wiring diagram

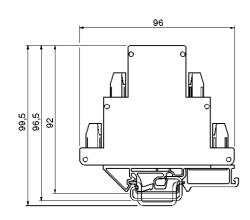
Lamp test module

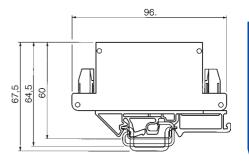


Fuse module



Dimensions





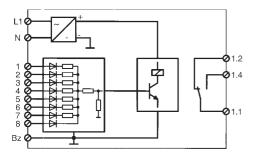
Function modules



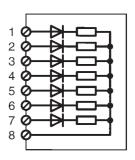
Centralized fault indication and expansion module

Wiring diagram

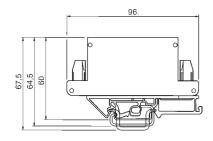
Centralized fault indication

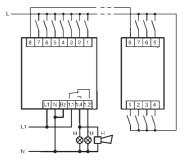


Expansion module to basic module



Dimensions

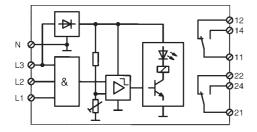




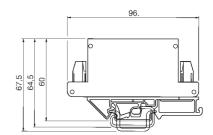


Three-phase system monitoring

Wiring diagram



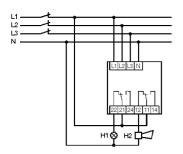
Dimensions



With TS35 mounting foot, the depth is 49,5 mm (including rail)

Connection example:

Centralized fault indication with expansion module

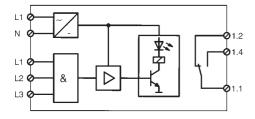


Function modules

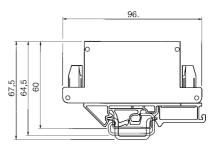


Three-phase fuse monitoring

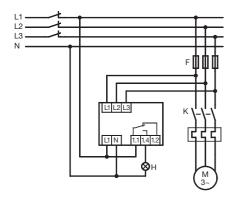
Wiring diagram



Dimensions



Connection example

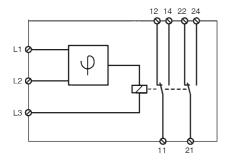




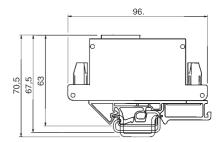


Rotation indicator

Wiring diagram



Dimensions





Principles of serial interfaces

The increasing use of a variety of automation techniques in all areas of industry requires the processing of an increasing amount of information. The most important transmission media is serial data cables which are used to control complex processes and record process data. Further transmission media are optical fibres and infrared transmission

A wide variety of serial interfaces are used which are not compatible with each other and frequently do not fulfil the increasing demands as regards to interference immunity, range and speed.

The Wieland SSW product range has tackled this problem and guarantees a noise-free and high-capacity data transmission in hostile industrial conditions.

RS 232 (V.24) interface

One of the most widely used serial interfaces is defined in the American norm EIA-232 and in the international standard CCITT V.24.

The data interface realises data exchange between two data processing devices (point-to-point connection) up to a maximum of 15 m in full duplex mode.

In the simplest configuration, three conductors TxD (sending data), RxD (receiving data) and GND (common signal ground) are required for this connection. The data transmission is controlled by the so-called XON/XOFF protocol (software handshake). If the transmission co-ordination should be controlled via hardware handshake, further control, signal and timing cables are available.

TTY current loop interface

The TTY current loop interface is a very well-known remote transmission interface which has its origins in telegraphy. They can be found nowadays in programmable controllers (PLC), visual display units and printers. A pair of conductors are required for both the sending and receiving of data.

The data transmission is carried out via software handshake in full duplex mode.

A loop current of 20 mA represents the state of logical "1". If the circuit is interrupted, this is evaluated as logical "0". A current-driven source is required in each loop which must either be coupled on the sending or receiving side.

RS-422(V.11) interface

Data communication with intelligent machines requires particularly rapid and high-capacity communication interfaces.

The RS 422 standard fulfils these requirements. It carries out the serial transmission of data in full duplex mode between two devices at a transmission rate up to 10 Mbit/s and a maximum distance of 1000 m.

The interface is operated at minimum with a "Sending" data channel (TxD) and a "Receiving" data channel (RXD). The sending and receiving co-ordination is implemented via software handshake.

The high rate of transmission reliability is achieved by the evaluation of the differential voltage between a twisted core pair. Interference voltages towards the zero potential are not evaluated. The electrical levels of the data cables are defined as

 \Box -0,3 V to -6 V for logical "1" and \Box +0,3 V to +6 V for logical "0".

RS-485(2 wire) interface

This serial interface type offers the possibility of multipoint connections of up to 32 devices as well as performance.

The electrical levels and their logical assignment are identical to the RS 422 standard

Limited by the 2-wire technology, the data transmission can however only take place according to half duplex mode i.e. the sending and receiving of data takes place alternately and must be controlled via an appropriate software program. In contrast to pure point-to-point communication, it must be possible to address and identify all the devices of a multipoint connection via an address using a corresponding software protocol. Only one device may send at the same time. All the other devices are meanwhile in listening mode.

The 2-wire bus cable can be up to 500 m long and must be terminated at both ends with an EOL resistor (100-200 ohm). The individual devices can be sent via spur lines up to 5 m from the bus cable.

The maximum transmission rate is 10 Mbit/s when using data cable that is twisted and shielded in pairs.

SSW-V.24 // TTY

The V.24 // interface converters are used to convert an RS 232 interface into a 20 mA current loop interface TTY or vice versa (e.g. between a PC and a PLC).

Due to the low capacity of RS 232 interfaces (15 m), the converters are installed as closely as possible to these interfaces. It is possible to bridge up to 1000 m via a cable that is twisted and shielded in pairs with the insulated and noise-free TTY signal.

SSW-V.24 // RS 422

The V.24 // RS-422-interface converters are used to convert an RS 232 interface into an RS 422 interface or vice versa. With the high-capacity and noise-free RS 422 interface, it is possible to bridge distances up to 1000 m using a cable that is twisted and shielded in pairs.

SSW-V.24 // RS 485

The RS-485-standard is used when more than two devices should communicate with each other. By converting the point-to-point RS 232 interface into the RS 485 standard with bus capability, up to 32 devices can be interconnected via a 2-wire cable

The V.24 // RS-485-interface converters are used to convert an RS 232 interface into an RS 485 2-wire bus interface with multipoint capability or vice versa.

The interface converters operate independently of the protocol and code i.e. all the bus devices must support the same transmission protocol and the same speed.





Suitable for use in switch gear cabinets and directly on the $\ensuremath{\mathsf{PC}}$



Interface converter RS 232 SSW-V.24//TTY



Interface converter RS 232 SSW-V.24//RS 422

Dimensions (mm): W x H x D $20 \times 76 \times 68$

	Type Part no. Std. pack	Type Part no. Std. pack
	SSW-V.24//TTY 57.007.0053.0 1	SSW-V.24//RS422 57.007.0153.0 1
Wiring diagram, dimensions	See pages 555	See pages 555
Technical data		
Supply voltage – potential assigned to the	5 V DC ±5% (Pin 18)	5 V DC ±5% (Pin 18)
input side		
Maximum power consumption	130 mA	130 mA
Input signal	V 24-level (RS 232)	V 24 level (RS 232)
Output signal	TTY level (20-mA current loop)	RS422 level
Maximum transmission rate	20 k Baud	20 k Baud
Maximum transmission length	1000 m (maximum 500 Ω)	1000 m (maximum 500 Ω)
Isolation voltage	500 V DC	500 V DC
<u> </u>		
Ambient temperature	0 °C50 °C	0 °C50 °C
Storage temperature	−25 °C+85 °C	−25 °C+85 °C
Connection of input signal (plug)	25 pole D-SUB plug	25 pole D-SUB plug
Connection of output signal (socket)	25 pole D-SUB socket	25 pole D-SUB socket
O		Fully realize and realize and realize
Operating possibility		Fully active, semi active, passive
Direction of control		
RS 232 Send V.24 → RS485		
RS 232 Receive V.24 ← RS485		
Installation on mounting rail	TS 35	TS 35
<u> </u>		



Suitable for use in switchgear cabinets and directly on the PC



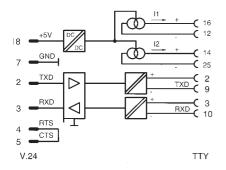
Interface converter RS 232 SSW-V.24//RS 485

Dimensions (mm): W x H x D 20 x 76 x 68

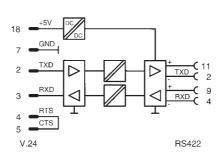
	Type Part no. Std. pack
	SSW-V.24//RS485 57.007.0253.0 1
Wiring diagram, dimensions	See pages 555
3 3	
Technical data	
Supply voltage - potential assigned to the	5 V DC ±5% (Pin 18)
input side	0 1 20 20 10 (1 11 10)
Maximum power consumption	130 mA
Input signal	V 24 level (RS 232)
Output signal	RS485 level
Maximum transmission rate	20 k Baud
Maximum transmission length	1000 m (maximal 500 Ω)
Isolation voltage	500 V DC
Isolation voltage	500 V DC
Ambient temperature	0 °C50 °C
Ambient temperature	-25 °C+85 °C
Storage temperature	-25 °C+85 °C
0	05 1 0 010 1
Connection of input signal (plug)	25 pole D-SUB plug
Connection of output signal (socket)	25 pole D-SUB socket
0 0 0 0 0 0	
Operating possibility	Fully active, semi active, passive
Discourse to the second	
Direction of control	21/ 121/
Send PIN 20	-3 V12 V
Receive PIN 20	+3 V+12 V
Installation on mounting rail	TS 35

SSIV

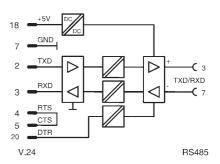
SSW-V.24//TTY



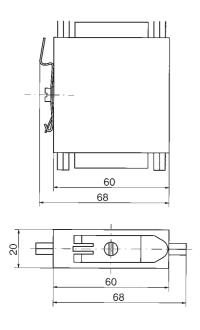
SSW-V.24//RS422



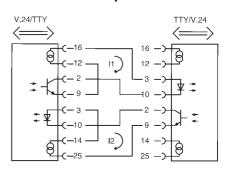
SSW-V.24//RS485

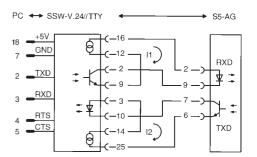


Dimensions



Connection examples





interface

D-Sub to screw terminal IDC header to screw terminal Interface modules and I/O plug systems for Siemens S5

interface offers

- Rapid wiring
- Rapid commissioning
- Clear cabling
- Reduction of wiring errors
- High packing density
- Time and cost savings

 $\ensuremath{\text{\textbf{C}}}\xspace$ In general all Wieland components which are obliged to have the

($\boldsymbol{\epsilon}$ identification are provided with the ($\boldsymbol{\epsilon}$ mark



passive interfaces terfaces

Interface modules

Interface modules make the connection between electronic and electrical components within the control panel.

The control signals from prefabricated plug connections are converted into terminal connections.

The use of Wieland interface modules provides the following benefits for system wiring:

- ☐ Simple process which saves time during design and costing
- Rapid wiring, commissioning and fault elimination due to clear cabling and pole designations
- ☐ Reduction of wiring errors
- ☐ Compact due to high packing density

The interface modules are fitted as standard with a mounting foot for DIN / EN mounting rails TS 35 or TS 32.

Available interface modules:

Subminiature D-SUB connector in accordance with DIN 41652

Subminiature connectors are increasingly used in telecommunications engineering, text and data processing as well as in measuring and control engineering.

The typical trapezoidal metal protective shrouds (galvanised and yellow passivated steel) that are used for this range of connectors guarantee that poles are connected correctly.

The metal shroud is fed onto a terminal to ensure a reliable looping through of the earth.

IDC header in accordance with DIN 41651

The flat ribbon connectors are used more frequently at the interface between the electronics and conventional electrical components.

The use of locking brackets in various lengths stops the socket connector from being separated from the plug connector due to vibration.

Central polarisation prevents any incorrect connections

Interface modules for S5

These interface modules have been specially designed for the Siemens range of programmable controllers SIMATIC" S5-115U to 155U. The interface modules take the place of the current I/O connection technology (screw or crimp connection) by implementing the transition from the I/O card to a multipole ribbon connector in accordance with DIN 41651

Special interface modules are used to connect the sensors and actuators directly to the I/O plug system. An optimum adaptation to the respective PLC module is thereby achieved.

Universal modules for a variety of applications complete this system range.

Overview of interface modules for SIMATIC®

S5-115U

- Digital input/output module for 32 channels
- □ Input/output plug system, 46 pole front plug
- Universal module for digital and analogue modules with 46 pole front plug connection

S5-135U to 155U

- ☐ Digital input/output module for 32 channels
- □ Input/output plug system, 42 pole front plug
- Universal module for digital and analogue modules with 42 pole front plug connection
- ☐ Relay output modules with master and expansion modules
- ☐ Initiator module for three-conductor initiators

Flat round cable with/without shielding, 50 pole, prefabricated in various lengths for connecting the front plug to the interface modules.

Further customer-specific interface modules are available on request.

Interface System D-Sub to screw terminal

passive interfaces terfaces passive interfaces terfaces



D-SUB connector to screw terminal

Approvals: (1) in preparation Overall width x 80 x 61

Number of poles	Overall width (mm)	Type	Part No	Box Qty	,	
D-Sub-female	Overall Width (IIIII)	туре	rait No	DOX City		
9	38,7	female D-Sub9	87.200.2200.3	3 1		
15	48,2	female D-Sub15	87.200.2200.3			
25	74,0	female D-Sub25	87.200.2201.3			
37	106,0	female D-Sub37	87.200.2202.3			
50*	141,0	female D-Sub50	87.200.2203.3			
30	141,0	Terriale D-Subsu	07.200.2204.0) 1		
D-Sub-male						
9	38,7	male D-Sub9	87.200.2205.3	3 1		
15	48,2	male D-Sub15	87.200.2206.3			
25	74,0	male D-Sub25	87.200.2207.3			
37	106,0	male D-Sub37	87.200.2208.3			
50*	141,0	male D-Sub50	87.200.2209.3	3 1		
* contacts arranged in 3	3 groups					
Wiring diagrams, dime	ensions	See page 570				
Technical data		001/40/751/50				
Maximum nominal volta		60 V AC / 75 V DC				
Maximum nominal curre	ent	1,5 A				
Wire range		22 – 12 AWG				
finely stranded		0,5 – 2,5 mm ²				
single core		0,5 – 4 mm ²				
Ambient temperature		0+50 °C				
Installation of mounting	rail	TS 35 or TS 32				
Norms/specifications		VDE 0110b Gr. 2				
Norms/specifications		VDL 01100 GI. 2				
Terminal strip X2		Type 8191E (x pole	s)			

IDC header to screw terminal

passive interfaces



IDC connector to screw terminal

Approvals: (1) in preparation Overall width x 80 x 61

Number of poles	Overall width (mm)	Туре	Part No	Box Qty		
10	48,2	FLK-SR10	87.210.2201.3	3 1		
14	48,2	FLK-SR14	87.210.2202.			
16	61,1	FLK-SR16	87.210.2203.			
20	61,1	FLK-SR20	87.210.2204.			
26	70,8	FLK-SR26	87.210.2205.			
34	93,1	FLK-SR34	87.210.2207.			
40	109,0	FLK-SR40	87.210.2208.			
50	131,7	FLK-SR50	87.210.2210.			
60	160,5	FLK-SR60	87.210.2211.3			
64	173,8	FLK-SR64	87.210.2211.			
04	173,0	T EN-SHO4	07.210.2212.	J 1		
Wiring diagrams, dime	ensions	See page 570				
Technical data						
Maximum nominal volta		60 V AC / 75 V	DC			
Maximum nominal curre	ent	1,0 A				
Wire range		22 – 12 AWG				
finely stranded		0,5 – 2,5 mm ²				
single core		0,5 – 4 mm ²				
Ambient temperature		0+50 °C				
Installation of mounting	rail	TS 35 or TS 32				
Norms/specifications		VDE 0110b Gr.	2			
Terminal strip X2		Type 8191E(x)	ooles)			

passive interfaces terfaces

for S5-115U



Digital I/O

Dimensions (mm): W x H x D

128.5 x 80 x 61

Approvals:

Description	Type Part No. Box Qty
Digital I/O with LED	EAS-UE/D-L-115 87.221.6053.0 1
Digital I/O without LED	EAS-UE/D-115 87.221.5953.0 1
•	
Wiring diagrams, dimensions	See page 571
Technical data	
Nominal voltage with LED	24 V DC
Nominal voltage without LED	75 V DC / 60 V AC
Nominal current per LED	5 mA
Nominal current:	
connections 1, 13, 25, 37 maximum	4 x 2.5 A oder 1 x 10 A
all remaining connections, maximum	0.5 A
Ambient temperature	0+60 °C
Storage temperature	−40+70 °C
Wire range (X8)	22 – 12 AWG
finely stranded	0.5 – 2.5 mm ²
single core	0.5 – 4 mm ²
-	
Installation of mounting rail	TS 35 or TS 32
<u> </u>	
Terminal strip X8	Type 8191E
	1/2
Accessories	
Suitable 46 pole front plug (115U	87.221.5853.0 4
	2.122.1333313
Notes for application	
Application (digital I/O with LED)	
Digital output modules	6ES5 441-7LA11 Fa. Siemens
Signal output modulos	6ES5 451-7LA11 Fa. Siemens
Digital input modules	6ES5 420-7LA11 Fa. Siemens
Digital Inpat modulos	6ES5 430-7LA11 Fa. Siemens
Application (digital I/O without LED)	0L00 430-7 LATT Ta. Siettietis
Digital output modules	6ES5 441-7LA11 Fa. Siemens
Digital output modules	6ES5 451-7LA11 Fa. Siemens
	6ES5 457-7LA11 Fa. Siemens
	6ES5 458-7LA11 Fa. Siemens
	6ES5 482-7LA11 Fa. Siemens

passive interfaces

for S5-115U



Universal module

Dimensions (mm): W x H x D 128 5 x 80 x 61

Approvals:

28.5 x 80 x 61	Approvals:	
Description	Type Part No Box Qty	
Universal module	UNIVERSAL-S5 87.221.6353.0 1	
Wiring diagrams, dimensions	See page 571	
Technical data		
Maximum nominal voltage	74 V DC / 60 V AC	
Nominal current:		
connections 1, 13, 25, 37 maximum	2.5 A	
all remaining connections, maximum	0.5 A	
Ambient temperature	0+60 °C	
Storage temperature	−40+70 °C	
Wire range (X2)	22 – 12 AWG	
finely stranded	0.5 – 2.5 mm ²	
single core	0.5 – 2.5 mm ²	
Single core	0.5 – 4 111111	
nstallation of mounting rail	TS 35 or TS 32	
Terminal strip X2	Type 8191E	
Accessories		
Suitable 46 pole front plug (115U)	87.221.5853.0 4	

passive interfaces terfaces

for S5-135U to 155U



Dimensions (mm): W x H x D 115.5 x 80 x 61

Digital I/O

Approvals:

Description	Type Part No Box Qty	
Digital I/O with LED	EAS-UE/D-L-135 87.222.6053.0 1	
Digital I/O without LED	EAS-UE/D-135 87.222.5953.0 1	
Wiring diagrams, dimensions	See page 572	
Technical data		
Nominal voltage with LED	24 V DC	
Nominal voltage without LED	75 V DC / 60 V AC	
Nominal current per LED	5 mA	
Nominal current:		
Screw terminals 3 and 24, maximum	2 x 5 A (without plug-in jumper)	
	1 x 10 A (with plug-in jumper)	
all remaining connections, maximum	0.5 A	
Ambient temperature	0+60 °C	
Storage temperature	-40+70 °C	
Wire range (X8)	22 – 12 AWG	
finely stranded	0.5 – 2.5 mm ²	
single core	0.5 – 4 mm ²	
Installation of mounting rail	TS 35 oder TS 32	
Terminal strip X2	Type 8191E	
Accessories		
Suitable 42 pole front plug (135U/155U)	87.222.5853.0 5	
Notes for application		
Digital output modules	6ES5 441-74UA12 Fa. Siemens	
	6ES5 451-74UA12 Fa. Siemens	
Digital input modules	6ES5 420-74UA12 Fa. Siemens	
	6ES5 430-74UA12 Fa. Siemens	
Digital input/output modules	6ES5 482-4UA12 Fa. Siemens	

passive interfaces

for S5-135U to 155U



Universal module Profibus DP

Approvals:

Dimensions (mm): W x H x D $115.5 \times 80 \times 61$

Description	Type Part No Box Qty	
Universal module	UNIVERSAL-S5 87.222.6353.0 1	
Wiring diagrams, dimensions	See page 572	
willing diagrams, dimensions	See page 372	
Technical data		
Nominal voltage	24 V DC	
Nominal current:	24 1 00	
Screw terminals 3 and 24, maximum	5 A	
all remaining connections, required	0,5 A	
all remaining connections, maximum	U,5 A	
A l- : 4 + 4	0 00 00	
Ambient temperature	0+60 °C	
Storage temperature	-40+70 °C	
Wire range (X8)	22 – 12 AWG	
finely stranded	0,5 – 2,5 mm ²	
single core	0,5 – 4 mm ²	
Installation of mounting rail	TS 35 or TS 32	
Terminal strip X2	Type 8191E	
Accessories		
Suitable 42 pole front plug (135U/155U)	87.222.5853.0 5	
Culture 12 pole from plug (1000) 1000)	07.222.0000.0	

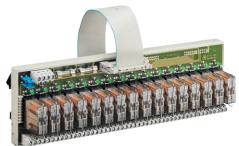
ive interfaces terfaces

for S5-115U to 155U

Important note for users:

The relay outputs must be supplied from the same phase (e.g. L1).





Both modules (main module and expansion module) are linked with a flat ribbon cable which is supplied with the expansion module.

Dimensions (mm): W x H x D

250 x 80 x 71

Main module

Expansion module

Type Part No Box Qty	Type Part No Box Qty		
RAB-FS16 W A-S5 87.221.6653.0 1	RSB-FS16 W B-S5 87.221.6753.0 1		
See page 573	See page 573		
24 V DC +10% / -15%	24 V DC +10% / -15%		
25 mA	25 mA		
0.6 W	0.6 W		
Green LED	Green LED		
250 V AC/DC ⁽²⁾	250 V AC/DC ⁽²⁾		
8 A AC/DC ⁽²⁾	8 A AC/DC ⁽²⁾		
5 V AC/DC ⁽²⁾	5 V AC/DC ⁽²⁾		
2000 VA/192W ⁽²⁾)	2000 VA/192W ⁽²⁾		
12 V	12 V		
100 mA	100 mA		
ca. 8 ms	ca. 8 ms		
	ca. 8 ms		
	AgCdO		
	1,9000		
5 x 10 ⁶ Switching cycles	5 x 10 ⁶ Switching cycles		
<u> </u>	2.5 x 10 ⁶ Switching cycles		
	1 x 10 ⁶ Switching cycles		
<u> </u>	2.5 x 10 ⁵ Switching cycles		
- · · · · · · · · · · · · · · · · · · ·	4 kV		
	0 °C+1) °C		
	-40+70 °C		
	22 – 12 AWG		
	0.5 – 2.5 mm ²		
	0.5 – 2.5 mm ²		
0.0			
TS 35 and TS 32	TS 35 and TS 32		
	87.2221.5853.0 4		
87.222.5853.0 5	87.222.5853.0 5		
6ES5 441-7LA11 Fa. Siemens	6ES5 441-7LA11 Fa. Siemens		
6ES5 451-7LA11 Fa. Siemens	6ES5 451-7LA11 Fa. Siemens		
6ES5 441-4UA12 Fa. Siemens	6ES5 441-4UA12 Fa. Siemens		
0505 454 411440 5 0	CECE 4E1 4HA10 E- Ciamana		
6ES5 451-4UA12 Fa. Siemens	6ES5 451-4UA12 Fa. Siemens		
	See page 573 24 V DC +10% / -15% 25 mA 0.6 W Green LED 250 V AC/DC ²⁰ 8 A AC/DC ²⁰ 5 V AC/DC ²⁰ 2000 VA/192W ²⁰) 12 V 100 mA ca. 8 ms ca. 8 ms AgCdO 5 x 10° Switching cycles 2.5 x 10° Switching cycles 1 x 10° Switching cycles 2.5 x 10° Switching cycles 4 kV 0 °C+" °C -40+70 °C 22 - 12 AWG 0.5 - 2.5 mm² 0.5 - 4 mm² TS 35 and TS 32 87.221.5853.0 4 87.222.5853.0 5		

passive interfaces terfaces

for S5-135U to 155U



42 pole front plug

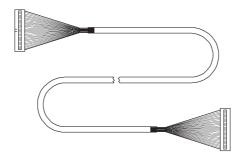
Approvals:

Dimensions (mm): W x H x D

Dimensions (mm): W x H x D	1 module location			
Description	Туре	Part No Box (Ωty	
42 pole front plug	135/150	87.222.5853.0	5	
Connection via 50 pole ribbon plug connector (X3)				
in accordance with DIN 41651				
Wiring diagram	See page 574			
Technical data				
Operating voltage maximal	75 V DC / 60 V A	AC		
Front plug connection no3 and 24				
for connection via a front connector	6 A			
for connection via ribbon plug connector (6 parallel pins)	5 A			
all remaining connections	0.5 A			
Ambient temperature	0+55 °C			
Storage temperature	-40+70 °C			
Notes for application				
The ribbon plug connectors (X3) is fitted as standard with				
long interlocking hooks. IDC connectors with strain relief				
brackets are recommended for the connection of IDC				
headers.				
				I

passive interfaces

Flat round cable



Flat round cable with shielding

Flat round cable without shielding

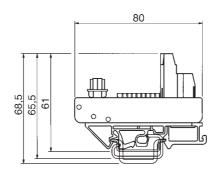
Description	Type Part No	Box Qty Type	Part No Box Qty		
1.0	FRK-S 100 08.000.01				
1.5	FRK-S 150 08.000.01				
2.0	FRK-S 200 08.000.01				
2.5	FRK-S 250 08.000.01				
3.0	FRK-S 300 08.000.01				
3.5	FRK-S 350 08.000.01				
4.0	FRK-S 400 08.000.01				
4.5	FRK-S 450 08.000.01				
5.0	FRK-S 500 08.000.01				
6.0	FRK-S 600 08.000.01				
7.0	FRK-S 700 08.000.01				
8.0	FRK-S 800 08.000.01				
9.0					
10.0	FRK-S 1000 08.000.01	07.3 FRK 10	00 08.000.0108.7		
Technical data					
	75 V DC / 60 V AC	75.1/ 5/	C / 60 \/ AC		
Nominal voltage	75 V DC / 60 V AC 0.85 A	0.85 A	75 V DC / 60 V AC		
Maximum permitted voltage per core					
Maximum permitted total current of all cores	20 A	20 A			
Niverland of mala					
Number of poles	50		50		
Cross-section	AWG 28 (7 x 0.127 mm Ø)		AWG 28 (7 x 0.127 mm Ø)		
Conductor material (tinned flexible leads)	Cu	Cu			
M	000 0#	200 0 1			
Maximum conductor resistance	230 Ω/km		230 Ω/km		
Capacitance	75 pF/m		75 pF/m		
Impedance	115 Ω	115 Ω			
			20.20		
Thermal stability	-20+80 °C		-20+80 °C		
Isolation	PVC		PVC		
IDC connector (with strain relief)	DIN 41651		DIN 41651		
Overall diameter	11.6 mm	11.1 mi	m		

passive interfaces terfaces

D-Sub connector to screw terminal

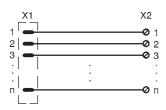
Wiring diagram

Dimensions

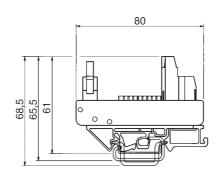


IDC connector to screw terminal

Wiring diagram



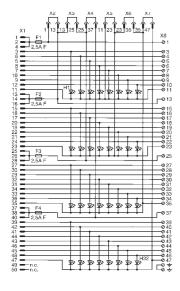
Dimensions



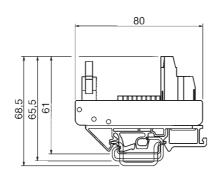
passive interfaces

Interface module for S5-115U Digital I/O

Wiring diagram

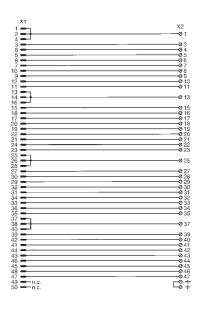


Dimensions

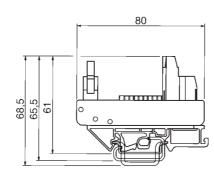


Interface module for S5-115U Universal module

Wiring diagram



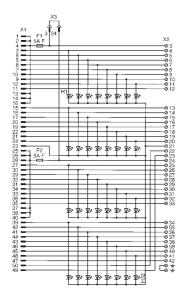
Dimensions



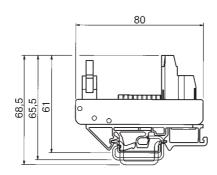
passive interfaces terfaces

Interface module for S5-135U to 155U Digital I/O

Wiring diagram

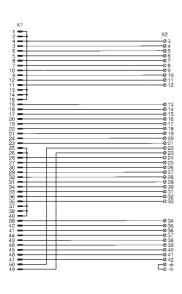


Dimensions

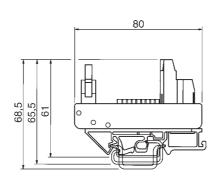


Interface module for S5-135U to 155U Universal module

Wiring diagram



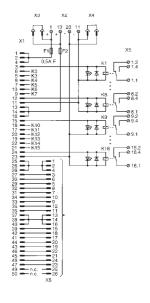
Dimensions



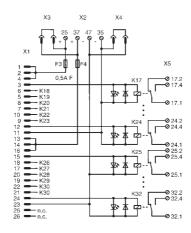
passive interfaces

Wiring diagram

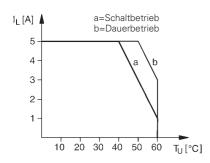
Relay output module for S5-115U to 155U Main module



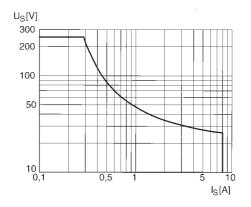
Relay output module for S5-115U to 155U Expansion module

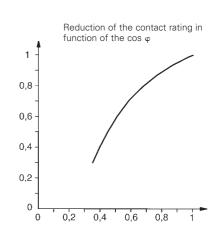


Derating¹⁾⁾

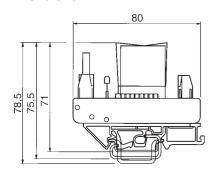


Direct voltage limit curve²⁾





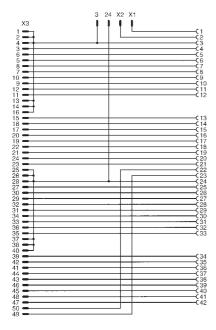
Dimensions



interface for S5E for S5

I/O plug system for S5-135U to 155U

S42 pole front plug



Empty housings

housing system

dipos

WEB

WEB 1001/1002

WEG

wieBOX

Labelling systems

Wielands empty housings offer:

- Universal application
- Individual modules
- Ranges that can be fitted together
- Complete housing systems
- Connectable housing
- Potentials can be bridged
- Screw or spring-clamp terminal
- Sealable
- Possibility of group labelling

 $\mathbf{C} \mathbf{E}$ In general all Wieland components which are obliged to have the $\mathbf{C} \mathbf{E}$ identification are provided with the $\mathbf{C} \mathbf{E}$ mark

svstem housing system

Empty housing features



WEB-Range

- ☐ installation housings, suitable for a variety of uses
- series of housings can be fitted together
- as individual modules
- or can be fitted together as a complete system
- mounting foot for all common mounting rails TS 35/TS 32
- ☐ to house fully equipped PCBs with various connection systems
- ☐ Can be used in such areas as:
 - device and control systems for consumer electronics
 - industrial electronics
 - control engineering
 - data systems engineer
- suitable for universal applications
- design available with/without components fitted (see "Electronic components" for designs with components)
- distribution of electronic components to take up minimum space
- WEB housing provides protection for sensitive components
- Wieland's system solution: Safety and
 - functionality with field tested connection systems
 - + high quality compact designs
 - its advantages:
 - long service life, even under extreme conditions
 - technical design perfection
 - reliability
 - low costs
 - problem-free application
 - many housing variations

WEB 1001 closed design

- construction of upto 9 housing configurations without tools and using just a few individual parts
- connection system
 - PCB terminals
 - direct and two part pluggable connectors
 - push-on terminals
- PCB can be fitted with components and soldered independently of the housing

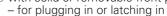
- Width of the design: from an overall housing height of 42 mm and PCB size (92,3 x 22,3 mm) up to 68 mixed connections in multi-tier desian
- closed design provides protection for the electronic components
- with transparent cover for checking displays etc.
- Marker facility on the housing

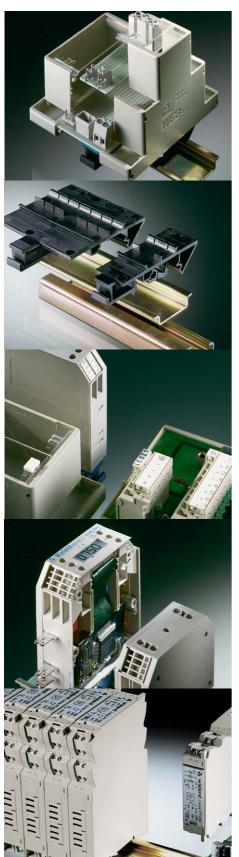
WEB 1001 WEB 1002 open housing

- In height of this series only 15,8 mm (without U-Foot)
- open modules can be assembled using the 3 different elements to form any
- complete sets of special components can be fitted
- numerous facilities for connecting external conductors, screw, pluggable, two part and push on terminals
- system advantages:
 - can be assembled quickly due to the plug-in modular system principle
 - high torsional rigidity due to the firm interconnection of the individual elements
 - can be fitted to all DIN EN mounting rails 32/35 using the universal foot

wieBox CN range

- ☐ for assembling electronic components
- housing designed with twin shell casing
- ☐ in three different designs widths 19 mm, 22,5 mm and 26 mm
- can be fitted with 2 or 3 pole terminals which are provided with a left or right angled soldering pins
- I insertion of the 2 pole supply terminals in 19mm housing possible up to a maximum of 8 poles
- □ 3 pole terminals up to a maximum of 12 poles can be used for the design widths 22,5 mm and 26 mm
- housing can be selected with or without ventilation slots
- mounting foot for TS 35 mounting rail
- with solid or removable front panels:





WEB connection system

- independent of the housing component
- ☐ up to 68 connections per housing
- no type of connection prescribed therefore screw, puggable, two-part terminals or even mixed systems can

Handling

- ☐ PCBs can be fitted with components independantly of the housing
- ☐ mechanical soldering of the PCB to the terminals and components, also regard less of the housing.
- ☐ horizontal (WEB) or vertical (WEG) arrangement of the PCB's on several levels within the housing
- ☐ housing components can be fitted together

Attachment to the mounting rail

- by means of a slot mounting facility for one or more mounting feet
- U-foot for TS 32 and TS 35

WEG-Empty housings

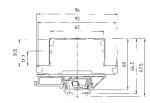
- compact housing made from high quality material
- description closed housing available in four different sizes
- distribution of electronic components to take up minimum space
- ☐ WEG-Empty housings provide protection for sensitive components
- design widths: between 16,5 mm and 28,5 mm
- design height: either 70,5 mm or 98 mm
- ☐ modules of various lengths can be mounted side by side using the U-foot which snaps into place on the DIN rail
- ☐ space saving arrangement of electronic components both on DIN rail and on G rail (U-foot)
- connection by screw terminal
- □ supplied:
 - pre-assembled
 - connecting terminal plates supplied
- connection of single core and finely stranded conductors from 0,14 mm² to 6 mm², stranded conductors from 0,14 mm² to 4 mm²

Labelling systems

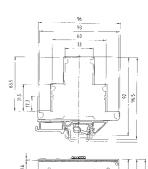
- ☐ clip-in terminal and housing markers
- multi digit marker tags
- ☐ single tag, marker strips

- marker branch
- ☐ individual labelling possible using figures or symbols

WEB closed housing



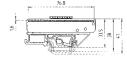
WEB closed housing



WEB open housing



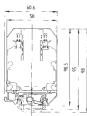
WEB open housing



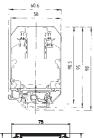
WEG

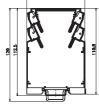


W/FG



wieBOX





dipos 005









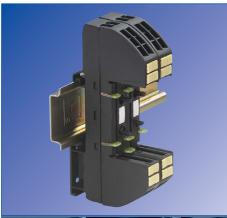
Typical applications

- ☐ relay modules
- ☐ timer relay modules
- optocoupler (solid state) modules
- document compact power supply units
- ☐ converter for standard analogue signals
- ☐ signal conditoning for RTD's and thermocouples
- ☐ programmable signal conditioning
- potential monitors
- $\hfill\Box$ overvoltage protection
- □ low cost I/O system
- ☐ fieldbus interfacing

Possible applications and markets

- ☐ mechanical and system engineering
- electrical/electronics industry, device manufacturer
- ☐ chemical industry and process automation
- $\ensuremath{\square}$ power engineering and power stations
- building technology, heating, ventilation and air conditioning technology (HVAC)
- ☐ car industry, aircraft, ships
- consumer goods
- □ foodstuffs
- utilities
- ☐ monitoring of environmental pollutions
- ☐ traffic control

dipos









Properties of the housing

- ☐ variety of housings for industrial process and building automation
- connectable housing consisting of module boards and modular top sections
- ☐ housing can be extended in the future in 5 mm intervals
- 4 (at an overall width of 12.5 mm) or 6 (at an overall width of 17.5 mm) potentials can be bridged between modules
- ☐ 8 connections in an overall width of 12.5 mm
- type of connection can be freely selected: screw or spring-clamp terminal
- integral connection
- □ labelling not covered by wiring
- each connection can be marked with its own marker tag
- ☐ coloured marker tags available
- group labelling in the base and on cover of housing
- Locking cover to prevent unwanted changes
- ventilation slots
- ☐ PCB is terminal free
- ☐ module board for TS 32 and TS 35 mounting rails





Electronic empty housing Modular housing system

Housing properties:

- connectable housingvarious design widths

Dimensions (mm): W x H x D

- potential bridging between housings
 at least 8 connections
 connection type: screw or spring clamp





Approvals: 1, CSA in preparation 12.5 x 100 x 100 (Standard)

Approvals: \P , CSAin preparation 17.5 x 100 x 100 (Standard)

Description	Type Part No. Box Qty	Type Part No. Box Qty		
Module board dipos UMC				
with screw terminals (screw thread M3)	80.060.0000.1	80.060.1000.1		
with spring clamp	80.060.0001.1 80.060.1001.1			
Empty housings	80.061.0010.3	80.061.1010.3		
Dimensions of housing and module board	See page 600	See page 600		
Technical data	Type Part No. Box Qty	Type Part No. Box Qty		
Rated voltage	230/400 V AC	230/400 V AC		
Maximum rated current	10 A per contact	10 A pro contakt		
Total current	10 A	10 A		
Overvoltage category	III	III		
Degree of pollution	2	2		
Connections per side	4 Klemmen, 4 Potenziale pro Seite	6 Klemmen, 6 Potenziale pro Seite		
Wire range of screw terminals	- Merrimen, 4 i otenziale pro seite	o Merrineri, o i oteriziale pro seite		
finely stranded/stranded	0.2 mm ² – 2.5 mm ²	0.2 mm ² – 2.5 mm ²		
single core	0.2 mm ² – 4 mm ²	0.2 mm ² – 4 mm ²		
flexible with AE with/without plastic sleeve	0.25 mm ² – 2.5 mm ² / 0.25 mm ² – 1.5 mm ²	0.25 mm ² – 2.5 mm ² / 0.25 mm ² – 1.5 mm ²		
AWG	0.25 mm ⁻ – 2.5 mm ⁻ / 0.25 mm ⁻ – 1.5 mm ⁻ 24 – 12	0.25 mm ² - 2.5 mm ² / 0.25 mm ² - 1.5 mm ² 24 - 12		
Tightening torque	0.5 – 0,6 Nm	0.5 – 0,6 Nm		
Wire range of spring-clamp terminal	0.08 mm ² – 2.5 mm ²	0.08 mm ² – 2.5 mm ²		
with AE	0.08 mm ² – 1.5 mm ²	0.08 mm ² – 1.5 mm ²		
AWG	28 – 12	28 – 12		
	28 – 12	6		
Maximum number of bridge to flanking unit	4	0		
Fire protection	V2	V2		
Type of protection	IP 20	IP 20		
Ambient temperature	−25 °C+100 °C	−25 °C+100 °C		
Storage temperature	-40 °C+100 °C	-40 °C+100 °C		
Regulations, norms	EN 60947-1	EN 60947-1		
	DIN EN 50178	DIN EN 50178		
	DIN VDE 0611 T1	DIN VDE 0611 T1		
	VDE 0110	VDE 0110		
	VDE 106	VDE 106		
Accessories				
Coding branch	Z5.563.0453.0 25	Z5.563.0453.0 25		
Plug-in jumper	Z8.000.0229.5 50	Z8.000.0229.5 50		
Large marker tag, white, blank	04.249.4053.0 500	04.249.4053.0 500		
Small marker tag	07.240.4030.0 300	J4.24J.4035.0 300		
unmarked, red	04.249.1053.0 500	04.249.1053.0 500		
unmarked, blue	04.249.1053.0 500	04.249.1553.0 500		
unmarked, blue unmarked, white	04.249.1553.0 500			
uninarkeu, willte	U4.249.2003.U 500	04.249.2053.0 500		

dipos

Housing properties:

- connectable housingvarious design widths

- potential bridging between housings
 at least 8 connections
 connection type: screw or spring clamp



Approvals: (9), CSA in preparation 22.5 x 100 x 100 (Standard)

Dimensions (mm): W x H x D

nimensions (mm). W X H X D	22.5 X 100 X 100 (Standard)	
Description	Type Part No. Box Qty	
Module board dipos UMC		
with screw terminals (screw thread M3)	80.060.2000.1	
with spring clamp	80.060.2001.1	
Empty housings	80.061.2010.3	
Dimensions of housing and module board	See page 600	
-	T. D. M. D. O.	
Technical data	Type Part No. Box Qty	
Rated voltage	230/400 V AC	
Maximum rated current	10 A per contact	
Total current	10 A	
Overvoltage category		
Degree of pollution	2	
Connections per side	8 Klemmen, 6 Potenziale pro Seite	
Wire range of screw terminals		
finely stranded/stranded	0.2 mm ² – 2.5 mm ²	
single core	0.2 mm ² – 4 mm ²	
flexible with AE with/without plastic sleeve	0.25 mm ² – 2.5 mm ² / 0.25 mm ² – 1.5 mm ²	
AWG	24 – 12	
Tightening torque	0.5 – 0.6 Nm	
Wire range of spring-clamp terminal	0.08 mm ² – 2.5 mm ²	
with AE	0.08 mm ² – 1.5 mm ²	
AWG	28 – 12	
Maximum number of bridge to flanking unit	6	
F	. Vo	
Fire protection	V2	
Type of protection	IP 20	
Ambient temperature	-25 °C+100 °C	
Storage temperature	-40 °C+100 °C	
Regulations, norms	EN 60947-1	
riegulations, norms	DIN EN 50178	
	DIN VDE 0611 T1	
	VDE 0110	
	VDE 106	
	VDE 100	
Accessories		
Coding branch	Z5.563.0453.0 25	
Plug-in jumper	Z8.000.0229.5 50	
Large marker tag, white, blank	04.249.4053.0 500	
Small marker tag		
unmarked, red	04.249.1053.0 500	
unmarked, blue	04.249.1553.0 500	
unmarked, white	04.249.2053.0 500	
EE.ROSJ TITLE	5 HZ 10 HZ 50 HZ	

Possible areas of application:
• devices and controllers for consumer electronics
• industrial electronics

Dimensions (mm): W x H x D $\,$ / for PCB

- control technologydata technology

Material:

PA 6 Housing: UL 94-HB PA 66 PC UL 94-V2 UL 94-HB Cover:





 $27 \times 42 \times 96$ / for PCB 93×22



Size 2 27 x 74 x 96 / for PCB 93/63 x 22

Description	Part No. Box 0	Qty Part No. Box Qty
Empty housing, complete with U-Foot, without PCB	87.010.0053.0 10	87.020.0053.0 10
Empty housing, complete with Foot TS 35, without PCB	86.010.0053.0 10	86.020.0053.0 10
(The empty housings are supplied unassembled and		
without PCBs)		
Housing dimensions	See page 601	See page 601
g aooo	occ page co.	
Individual parts		
1. Housing	01.001.5153.0 50	01.001.5053.0
2. Cover with marking facility	04.312.0654.0 50	04.312.0554.0 50
Cover without marking facility		
3. Cover plate	07.310.8553.0 50	07.310.8453.0 50
4. Universal foot	05.583.0053.0 50	05.583.0053.0 50
Foot TS 35	Z5.595.2153.0 50	Z5.595.2153.0 50
Connection technique	T 0100 0101 0100 0100 0101 0100 0110	0140 T.:: 0100 0101 0100 0100 0101 0100 0110 0140
PCB terminals with 5 mm pitch PCB terminals with 5.08 mm pitch	Type 8180, 8181, 8182, 8190, 8191, 8192, 8113, Type 8213, 8281, 8291, 8292	
PCB terminals with 7.5 mm pitch	Type 8313, 8390, 8391	Type 8213, 8281, 8291, 8292 Type 8313, 8390, 8391
PCB terminals with 7.62 mm pitch	Type 8413, 8491	Type 8413, 8491
PCB terminals with 3.5 mm pitch	Type 8543, 8593	Type 8543, 8593
PCB terminals with 3.81 mm pitch	Type 8813, 8893	Type 8813, 8893
1 05 terrimale that electrim piter.	1,750 33.0, 3330	1,500 0010, 0000
Accessories		
Flat connector	6.3 mm, straight 05.555.8521.0 50	6.3 mm, straight 05.555.8521.0 50
Flat connector	6.3 mm, angled 05.555.8721.0 50	6.3 mm, angled 05.555.8721.0 50
Flat connector	2 x 2.8 mm, straight 05.555.9121.0 50	2 x 2.8 mm, straight 05.555.9121.0 50
Flat connector	2 x 2.8 mm, angled 05.555.8921.0 50	2 x 2.8 mm, angled 05.555.8921.0 50
Flat connector	2.8 mm, straight 05.555.8621.0 50	2.8 mm, straight 05.555.8621.0 50
Flat connector	2.8 mm, angled 05.555.8821.0 50	2.8 mm, angled 05.555.8821.0 50
Flat connector: Materials	Ms tin plated	Ms tin plated
Mounting rail: diameter	1.3 – 1.4 mm	1.3 – 1.4 mm
Mounting rail: spacing	5 mm	5 mm
Mounting rail 35, DIN rail 7.5 high L = 2 m	35 x 27 x 7,5 EN 60715 98.300.0000.0 1	35 x 27 x 7,5 EN 60715 98.300.0000.0 1
Mounting rail 35, DIN rail 15 high L = 2 m	35 x 24 x 15 EN 60715 98.360.0000.0 1	35 x 24 x 15 EN 60715 98.360.0000.0 1
Mounting rail 32, G-rail L = 2 m	9006 EN 60715 G-32 98.190.0000.0 1	9006 EN 60715 G-32 98.190.0000.0 1
End clamp, Polyamide 8 mm wide TS		9708/2 S 35 Z5.522.8553.0 100
End clamp, Polyamide 10 mm wide U		WE 1/U Z5.523.5753.0 100
Marker tag holder	9003 C/4 04.242.1050.0 200	9003 C/4 04.242.1050.0 200
Marker tag, unmarked	9003 C 04.241.0651.0 500	9003 C 04.241.0651.0 500
Marker tag, marked	9003 CB 04.841.0651.0 500	9003 CB 04.841.0651.0 500
See pages 582–585 for further labelling systems		
	I I	The state of the s

WEB

- Possible areas of application:
 devices and controllers for consumer electronics
 industrial electronics
- control technologydata technology

Material:

PA 6 Housing: UL 94-HB PA 66 PC UL 94-V2 UL 94-HB Foot: Cover:





93 x 42 x 96 / for PCB 93 x 45 Dimensions (mm): $W \times H \times D$ / for PCB



Size 4 $70.5 \times 74 \times 96$ / for PCB 93/63 \times 45

Description	Part No. Box Qty	Part No. Box Qty		
Empty housings, complete with U-Foot, without PCB	87.030.0053.0 10	87.040.0053.0 10		
Empty housings, complete with Foot TS 35, without PCB	86.030.0053.0 10	86.040.0053.0 10		
(The empty housings are supplied unassembled and without PCBs)		See page 601		
Housing dimensions	See page 601			
Individual parts	04 004 5450 0 50	04 004 5050 0		
1. Housing	2 x 01.001.5153.0 50	2 x 01.001.5053.0		
2. Cover with marking facility	2 x 04.312.0654.0 50	2 x 04.312.0554.0 50		
Cover without marking facility	1 x 04.312.3054.0 10	1 x 04.312.3354.0 50		
3. Cover plate	05 500 0050 0 50	05 500 0050 0 50		
4. Universal foot	05.583.0053.0 50	05.583.0053.0 50		
Foot TS 35	Z5.595.2153.0 50	Z5.595.2153.0 50		
Connection technique				
PCB terminals with 5 mm pitch	Type 8180, 8181, 8182, 8190, 8191, 8192, 8113, 8142	Type 8180, 8181, 8182, 8190, 8191,8192, 8113, 8142		
PCB terminals with 5.08 mm pitch	Type 8213, 8281,8291, 8292	Type 8213, 8281,8291, 8292		
PCB terminals with 7.5 mm pitch	Type 8313, 8390, 8391	Type 8313, 8390, 8391		
PCB terminals with 7.62 mm pitch	Type 8413, 8491	Type 8413, 8491		
PCB terminals with 3.5 mm pitch	Type 8543, 8593	Type 8543, 8593		
PCB terminals with 3.81 mm pitch	Type 8813, 8893	Type 8813, 8893		
A				
Accessories	6.3 mm, straight 05.555.8521.0 50	6.3 mm, straight 05.555.8521.0 50		
Flat connector Flat connector	6.3 mm, straight 05.555.8521.0 50 6.3 mm, angled 05.555.8721.0 50	6.3 mm, straight 05.555.8521.0 50 6.3 mm, angled 05.555.8721.0 50		
Flat connector Flat connector	2 x 2.8 mm, straight 05.555.9121.0 50 2 x 2.8 mm, angled 05.555.8921.0 50	2 x 2.8 mm, straight 05.555.9121.0 50 2 x 2.8 mm, angled 05.555.8921.0 50		
Flat connector	2.8 mm, straight 05.555.8621.0 50	2.8 mm, straight 05.555.8621.0 50		
Flat connector	2.8 mm, angled 05.555.8821.0 50	2.8 mm, angled 05.555.8821.0 50		
Flat connector: Materials	Ms tin plated	Ms tin plated		
Mounting rail: diameter	1.3 -1.4 mm	1.3 -1.4 mm		
Mounting rail: spacing	5 mm	5 mm		
Mounting rail 35, DIN rail 7.5 high L = 2 m	35 x 27 x 7,5 EN 60715 98.300.0000.0 1	35 x 27 x 7,5 EN 60715 98.300.0000.0 1		
Mounting rail 35, DIN rail 15 high L = 2 m	35 x 24 x 15 EN 60715 98.360.0000.0 1	35 x 24 x 15 EN 60715 98.360.0000.0 1		
Mounting rail 32, G-rail L = 2 m	9006 EN 60715 G-32 98.190.0000.0 1	9006 EN 60715 G-32 98.190.0000.0 1		
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35 Z5.522.8553.0 100	9708/2 S 35 Z5.522.8553.0 100		
End clamp, Polyamide 10 mm wide U-Foot	WE 1/U Z5.523.5753.0 100	WE 1/U Z5.523.5753.0 100		
Marker tag holder	9003 C/4 04.242.1050.0 200	9003 C/4 04.242.1050.0 200		
Marker tag, unmarked	9003 C 04.241.0651.0 500	9003 C 04.241.0651.0 500		
Marker tag, marked	9003 CB 04.841.0651.0 500	9003 CB 04.841.0651.0 500		
Warker tag, marked				

- Possible areas of application:
 devices and controllers for consumers electronics
 industrial electronics
- control technologydata technology

Material:

UL 94-HB UL 94-V2 UL 94-HB PA 6 Housing: PA 66 PC Cover:





Dimensions (mm): W x H x D $\,$ / for PCB $70.5 \times 42 \times 96$ / for PCB 93×67

 $70.5 \times 74 \times 96$ / for PCB 93/63 x 67

Description	Part No. Box Qty	Part No. Box Qty		
Empty housings, complete with U-Foot, withou	PCB 87.060.0053.0 10	87.070.0053.0 10		
(The empty housings are supplied unassembled ar without PCBs)		See page 601		
Housing dimensions	See page 601			
Individual parts				
1. Housing	01.001.5153.0 50	01.001.5353.0 10		
Housing	01.001.5453.0 50	01.001.5053.0		
2. Cover	01.001.5455.0 50	04.312.3454.0 50		
3. Universal foot	05.583.0153.0 50	04.512.5454.0 50		
O. OTHEROGODI TOOL	09.903.0193.0 90	00.000.0100.0 00		
Connection technique				
PCB terminals with 5 mm pitch	Type 8180, 8181, 8182, 8190, 8191, 8192, 8113, 8142	Type 8180, 8181, 8182, 8190, 8191, 8192, 8113, 8142		
PCB terminals with 5.08 mm pitch	Type 8213, 8281, 8291, 8292	Type 8213, 8281, 8291, 8292		
PCB terminals with .5 mm pitch	Type 8313, 8390, 8391	Type 8313, 8390, 8391		
PCB terminals with 7.62 mm pitch	Type 8413, 8491	Type 8413, 8491		
PCB terminals with 3.5 mm pitch	Type 8543, 8593	Type 8543, 8593		
PCB terminals with 3.81 mm pitch	Type 8813, 8893	Type 8813, 8893		
Technical data				
Materials	Ms tin plated	Ms tin plated		
Mounting rail: diameter	1.3 –1.4 mm	1.3 –1.4 mm		
Mounting rail: spacing	5 mm	5 mm		
Accessories Flat connector	6.3 mm, straight 05.555.8521.0 50	6.3 mm, straight 05.555.8521.0 50		
Flat connector	6.3 mm, straight 05.555.8521.0 50 6.3 mm, angled 05.555.8721.0 50	6.3 mm, straight 05.555.8521.0 50 6.3 mm, angled 05.555.8721.0 50		
Flat connector	2 x 2.8 mm, straight 05.555.9121.0 50	2 x 2.8 mm, straight 05.555.9121.0 50		
Flat connector	2 x 2.8 mm, angled 05.555.8921.0 50	2 x 2.8 mm, angled 05.555.8921.0 50		
Flat connector	2.8 mm, straight 05.555.8621.0 50	2.8 mm, straight 05.555.8621.0 50		
Flat connector	2.8 mm, angled 05.555.8821.0 50	2.8 mm, angled 05.555.8821.0 50		
Mounting rail 35, DIN rail 7.5 high L = 2 m	35 x 27 x 7,5 EN 60715 98.300.0000.0 1	35 x 27 x 7.5 EN 60715 98.300.0000.0 1		
Mounting rail 35, DIN rail 15 hoc L = 2 m	35 x 24 x 15 EN 60715 98.360.0000.0 1	35 x 24 x 15 EN 60715 98.360.0000.0 1		
Mounting rail 32, G-rail L = 2 m	9006 EN 60715 G-32 98.190.0000.0 1	9006 EN 60715 G-32 98.190.0000.0 1		
End clamp, Polyamide 8 mm wide	·	9708/2 \$ 35		
End clamp, Polyamide 10 mm wide		WE 1/U Z5.523.5753.0 100		
Marker tag holder	9003 C/4 04.242.1050.0 200	9003 C/4 04.242.1050.0 200		
Marker tag, unmarked	9003 C 04.241.0651.0 500	9003 C 04.241.0651.0 500		
Marker tag, marked	9003 CB 04.841.0651.0 500	9003 CB 04.841.0651.0 500		

MEB

Possible areas of application:

- Devices and controllers for consumers electronics
 industrial electronics

- control technologydata technology

Material:

PA 6 Housing: UL 94-HB PA 66 PC UL 94-V2 UL 94-HB Foot: Cover:





Size 8 x 96 / for PCB 93 x 89 6

Size 9 x 96 / for PCB 93/63 x 89 6

Description	Part No. Box Qty	Part No. Box Qty		
Empty housings, complete with U-Foot, without P	,	87.090.0053.0 10		
(The empty housings are supplied unassembled and	9			
without PCBs)	3	3]		
Housing dimensions	See page 601	See page 601		
Individual parts		_		
1. Housing	01.001.5453.0 50	01.001.5353.0 10		
Housing	01.001.5453.0 50	01.001.5353.0 10		
2. Cover	04.312.3254.0 50	04.312.3554.0 50		
3. Universal foot	05.583.0153.0 50	05.583.0153.0 50		
Connection technique				
PCB terminals with 5 mm pitch	Type 8180, 8181, 8182, 8190, 8191, 8192, 8113, 8142	Type 8180, 8181, 8182, 8190, 8191, 8192, 8113, 814		
PCB terminals with 5.08 mm pitch	Type 8213, 8281, 8291, 8292	Type 8213, 8281, 8291, 8292		
PCB terminals with 7.5 mm pitch	Type 8313, 8390, 8391	Type 8313, 8390, 8391		
PCB terminals with 7.62 mm pitch	Type 8413, 8491	Type 8413, 8491		
PCB terminals with 3.5 mm pitch	Type 8543, 8593	Type 8543, 8593		
PCB terminals with 3.81 mm pitch	Type 8813, 8893	Type 8813, 8893		
Technical data				
Materials	Ms tin plated	Ms tin plated		
Mounting rail: diameter	1.3 – 1.4 mm	1.3 – 1.4 mm		
Mounting rail: spacing	5 mm	5 mm		
Accessories				
Flat connector	6.3 mm, straight 05.555.8521.0 50	6.3 mm, straight 05.555.8521.0 50		
Flat connector	6.3 mm, angled 05.555.8721.0 50	6.3 mm, angled 05.555.8721.0 50		
Flat connector	2 x 2.8 mm, straight 05.555.9121.0 50	2 x 2.8 mm, straight 05.555.9121.0 50		
Flat connector	2 x 2.8 mm, angled 05.555.8921.0 50	2 x 2.8 mm, angled 05.555.8921.0 50		
Flat connector	2.8 mm, straight 05.555.8621.0 50	2.8 mm, straight 05.555.8621.0 50		
Flat connector	2.8 mm, angled 05.555.8821.0 50	2.8 mm, angled 05.555.8821.0 50		
Mounting rail 35, DIN rail 7.5 high L = 2 m	35 x 27 x 7.5 EN 60715 98.300.0000.0 1	35 x 27 x 7.5 EN 60715 98.300.0000.0 1		
Mounting rail 35, DIN rail 15 high L = 2 m	35 x 24 x 15 EN 60715 98.360.0000.0 1	35 x 24 x 15 EN 60715 98.360.0000.0 1		
Mounting rail 32, G rail $L = 2 \text{ m}$	9006 EN 60715 G-32 98.190.0000.0 1	9006 EN 60715 G-32 98.190.0000.0 1		
End clamp, Polyamide 8 mm wide TS 3	5 9708/2 S 35 Z5.522.8553.0 100	9708/2 S 35 Z5.522.8553.0 100		
End clamp, Polyamide 10 mm wide U-F	oot WE 1/U Z5.523.5753.0 100	WE 1/U Z5.523.5753.0 100		
Marker tag holder	9003 C/4 04.242.1050.0 200	9003 C/4 04.242.1050.0 200		
Marker tag, unmarked	9003 C 04.241.0651.0 500	9003 C 04.241.0651.0 500		
Marker tag, marked	9003 CB 04.841.0651.0 500	9003 CB 04.841.0651.0 500		
See pages 582–585 for further labelling systems				

- can be assembled together quickly due to the plug-in
- high torsional rigidity due to the firm interconnection of
- the individual elements

 can be latched onto all DIN EN mounting rail 32/35 using the universal foot

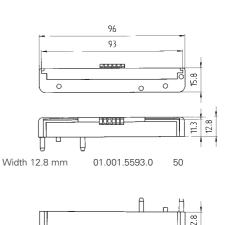
Material:

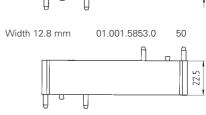
PA 6 GU30 UL 94-HB Housing: Foot: PA 66 UL 94-V2



WEB 1001

mensions (mm): W x H x D	Variable x 96 x 33.5
Individual parts	Type Part No. Box Qty
1. End cover with label holder	Width 12.8 mm 01.001.5593.0 50
1. End cover without label holder	Width 12.8 mm 01.001.5993.0 50
2. Middle section of housing	Width 12.8 mm 01.001.5853.0 50
3. Middle section of housing	Width 22.5 mm 01.001.5653.0 50
4. Middle section of housing	Width 44.8 mm 01.001.5753.0 50
5. Universal foot	Width 23 mm 05.583.0053.0 50
5. Universal foot (overall width from 70.4 mm)	Width 68 mm 05.583.0153.0 50
	96
Accessories Mounting rail 35, DIN rail 7.5 mm high L = 2 m Mounting rail 35, DIN rail 15 mm high L = 2 m Mounting rail 32, G-rail L = 2 m	Type Part No. Box Qty 35 x 27 x 7,5 EN 60715 98.300.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 9006 EN 60715 G-32 98.190.0000.0 1
PCB (not included)	see drawing for dimensions
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35
End clamp, Polyamide 10 mm wide U-Foot	WE 1/U Z5.523.5753.0 100
Marker tag, unmarked	9003 C 04.242.0850.0 500
Marker tag, marked	9003 CB 04.842.0850.0 500
Marker tag, market	0.000 0.00
See pages 582–585 for further labelling systems	





Width 22.5 mm

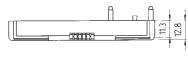




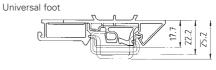
01.001.5653.0

50





01.001.5593.0 50



Width 23 mm Width 68 mm

05.583.0053.0 50 05.583.0153.0

- can be assembled together quickly due to the plug-in
- high torsional rigidity due to the firm interconnection of the
- individual elements

 can be latched onto all DIN EN mounting rail 32/35 using the universal foot

Material:

PA 6 GU30 UL 94-HB Housing: Foot: PA 66 UL 94-V2

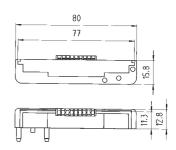


WEB 1002

Dimensions (mm): W x H x D

Variable x 80 x 33.5

nimensions (mm): vv x n x D	Valiable X ou X 33.3	
Individual parts	Type	Part No. Box Qty
1. End cover with label holder	Width 12.8 mm	01.001.6493.0 50
2. Middle section of housing	Width 12.8 mm	01.001.6553.0 50
3. Middle section of housing	Width 22.5 mm	01.001.6653.0 50
4. Middle section of housing	Width 44.8 mm	01.001.6753.0 50
5. Universal foot	Width 23 mm	05.584.8853.0 50
5. Universal foot (overall width from 70.4 mm)	Width 68 mm	05.584.8953.0 50
	, [-	80
	57	388 88 17
Accessories Mounting rail 35, DIN rail 7.5 mm high L = 2 m	35 x 27 x 7.5 EN 60715	
Mounting rail 35, DIN rail 15 mm high $L = 2 \text{ m}$	35 x 24 x 15 EN 60715	
Mounting rail 32, G-rail L = 2 m	9006 EN 60715 G-32	
PCB (not included)	see drawing for dimer	
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35	Z5.522.8553.0 100
End clamp, Polyamide 10 mm wide U-Foot	WE 1/U	Z5.523.5753.0 100
Marker tag, unmarked	9003 C	04.242.0850.0 500
Marker tag, marked	9003 CB	04.842.0850.0 500
See pages 582–585 for further labelling systems		



Width 12.8 mm

01.001.6493.0 50



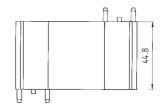
Width 12.8 mm

01.001.6553.0 50



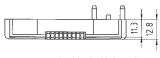
Width 22.5 mm

01.001.6653.0 50



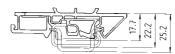
Width 44.8 mm

01.001.6753.0 50



01.001.6493.0 50

Universal foot



Width 23 mm Width 68 mm 05.584.8853.0 50 05.584.8953.0 50

(overall width from 70.4 mm)



with integrated U-foot

- System benefits

 can be assembled to any length

 possible to have complete custom-made design
- can be assembled together quickly due to the plug-in modular principle
- high torsional rigidity due to the firm interconnection of
- the individual elements
 can be latched onto all DIN EN mounting rail 32/35 using the universal foot

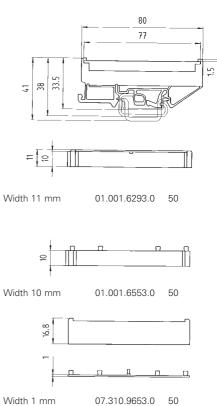
Material:

PA 6 GU30 UL 94-HB Housing: Foot: PA 66 UL 94-V2



WEB 1002 with integrated U-Foot

Accessories Mounting rail 35, DIN rail 7.5 mm high	Variable x 80 x 33.5			
2. Middle section with integrated U-foot 3. End plate Width 1 n Width 1 n Width 1 n Width 1 n Accessories Mounting rail 35, DIN rail 7.5 mm high	Part No. Box Qty			
Accessories Mounting rail 35, DIN rail 7.5 mm high				
Accessories Mounting rail 35, DIN rail 7.5 mm high L = 2 m				
Accessories 35 x 27 x Mounting rail 35, DIN rail 15 mm high L = 2 m 35 x 27 x Mounting rail 35, DIN rail 15 mm high L = 2 m 35 x 24 x Mounting rail 32, G-rail L = 2 m 9006 EN 6 PCB (not included) see drawi End clamp, Polyamide 8 mm wide TS 35 9708/2 S 3 End clamp, Polyamide 10 mm wide U-Foot WE 1/U Marker tag, unmarked 9003 C Marker tag, marked 9003 CB	nm 07.310.9653.0 50			
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	80			
End clamp, Polyamide 8 mm wide TS 35 9708/2 S : End clamp, Polyamide 10 mm wide U-Foot WE 1/U Marker tag, unmarked 9003 C Marker tag, marked 9003 CB	7,5 EN 6071598.300.0000.0 1 15 EN 60715 98.360.0000.0 1 60715 G-32 98.190.0000.0 1			
End clamp, Polyamide 10 mm wide U-Foot WE 1/U Marker tag, unmarked 9003 C Marker tag, marked 9003 CB	ng for dimensions			
Marker tag, unmarked 9003 C	35 Z5.522.8553.0 100			
Marker tag, unmarked 9003 C Marker tag, marked 9003 CB	Z5.523.5753.0 100			
Marker tag, marked 9003 CB	04.242.0850.0 500			
See pages 582–585 for further labelling systems	04.842.0850.0 500			
See pages 582–585 for further labelling systems				



- System benefits

 closed housing available in four different sizes

 parallel connection of the modules in various lengths possible via the latchable U-foot

 compact housing made from high quality material

 UL 94-V-0 polyamide 66/6

UL-Data CSA-Data Approvals

Dimensions (mm): W x H x D



No. 22-10 AWG/600 V No. 20-10 AWG

(UL)

20 x 60.6 x 63



No. 22-10 AWG/600 V No. 20–10 AWG

16.5 x 60.6 x 90.5

Part No. Box Qty			
57.801.0053.0 10	57.801.5053.0 10		
	57.501.3093.0 10		
See page 602	See page 602		
4 mm ²	4 mm²		
0.14-6 mm ² (EN 60 947-7-1 / DIN VDE 0611 T1)	0.14-6 mm ² (EN 60 947-7-1 / DIN VDE 0611 T1)		
0.14-4 mm ² (EN 60 947-7-1 / DIN VDE 0611 T1)	0.14-4 mm ² (EN 60 947-7-1 / DIN VDE 0611 T1)		
400 V/4 kV/3	400 V/4 kV/3		
max. 10 A	max. 10 A		
IP 20	IP 20		
7 mm	7 mm		
DIN VDE 0611 Part 1 (11.77)	DIN VDE 0611 Part 1 (11.77)		
EN 60947-7-1: 1991/DIN VDE 0611 T1/08.92	EN 60947-7-1: 1991/DIN VDE 0611 T1/08.92		
35 x 27 x 7,5 EN 60715 98.300.0000.0 1	35 x 27 x 7,5 EN 60715 98.300.0000.0 1		
35 x 24 x 15 EN 60715 98.360.0000.0 1	35 x 24 x 15 EN 60715 98.360.0000.0 1		
9006 EN 60715 G-32 98.190.0000.0 1	9006 EN 60715 G-32 98.190.0000.0 1		
Z8.000.0123.1 10			
9708/2 S 35 Z5.522.8553.0 100	9708/2 S 35 Z5.522.8553.0 100		
WE 1/U Z5.523.5753.0 100	WE 1/U Z5.523.5753.0 100		
9003 C 04.242.0651.0 500	9003 C 04.241.0651.0 500		
9003 CB 04.842.0651.0 500	9003 CB 04.841.0651.0 500		
	57.801.0053.0 10 See page 602 4 mm² 0.14-6 mm² (EN 60 947-7-1 / DIN VDE 0611 T1) 0.14-4 mm² (EN 60 947-7-1 / DIN VDE 0611 T1) 400 V/4 kV/3 max. 10 A IP 20 7 mm DIN VDE 0611 Part 1 (11.77) EN 60947-7-1: 1991/DIN VDE 0611 T1/08.92 35 x 27 x 7,5 EN 60715 98.300.0000.0 1 35 x 24 x 15 EN 60715 98.360.0000.0 1 9006 EN 60715 G-32 98.190.0000.0 1 28.000.0123.1 10 9708/2 S 35 Z5.522.8553.0 100 WE 1/U Z5.523.5753.0 100 9003 C 04.242.0651.0 500		

WEG

Description

- System benefits

 closed housing available in four different sizes

 parallel connection of the modules in various lengths possible via the latchable U-foot
- Compact housing made from high quality material
- UL 94-V-0 polyamide 66/6

UL-Data CSA-Data Approvals Dimensions (mm): W x H x D

No. 20-10 AWG $(\hspace{-.1cm} I_L\hspace{-.1cm})$ 22.5 x 60.6 x 90.5



Part No.

Box Qty



Part No.

Box Qty

No. 20-10 AWG (JL) 28.5 x 60.6 x 90.5

Empty housings, complete with U-Foot, without PCB	57.801.5153.0 10	57.801.5253.0 10		
		See page 602		
Housing dimensions, PCB dimensions	See page 602			
Technical data	4 mm ²	4 mm²		
Rated cross-section	0.14–6 mm² (EN 60 947-7-1 / DIN VDE 0611 T1)			
Wire range finally strended	0.14–6 mm² (EN 60 947-7-1 / DIN VDE 0611 T1)	0.14–6 mm² (EN 60 947-7-1 / DIN VDE 0611 T1) 0.14–4 mm² (EN 60 947-7-1 / DIN VDE 0611 T1)		
Wire range finely stranded Rated voltage	400 V/4 kV/3	400 V/4 kV/3		
Rated current	max. 10 A	max. 10 A		
Type of protection	IP 20	IP 20		
Insulation strip length	7 mm	7 mm		
Regulations, norms	DIN VDE 0611 Part 1 (11.77)	DIN VDE 0611 Part 1 (11.77)		
riogalationo, normo	EN 60947-7-1: 1991/DIN VDE 0611 T1/08.92	EN 60947-7-1: 1991/DIN VDE 0611 T1/08.92		
Accessories				
Mounting rail 35, DIN rail 7.5 mm high L = 2 m	35 x 27 x 7,5 EN 60715 98.300.0000.0 1	35 x 27 x 7,5 EN 60715 98.300.0000.0 1		
Mounting rail 35, DIN rail 15 mm high L = 2 m	35 x 24 x 15 EN 60715 98.360.0000.0 1	35 x 24 x 15 EN 60715 98.360.0000.0 1		
Mounting rail 32, G-rail L = 2 m	9006 EN 60715 G-32 98.190.0000.0 1	9006 EN 60715 G-32 98.190.0000.0 1		
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35 Z5.522.8553.0 100	9708/2 S 35 Z5.522.8553.0 100		
End clamp, Polyamide 10 mm wide U-Foot		WE 1/U Z5.523.5753.0 100		
Marker tag, unmarked	9003 C 04.241.0651.0 500	9003 C 04.241.0651.0 500		
Marker tag, marked	9003 CB 04.841.0651.0 500	9003 CB 04.841.0651.0 500		
See pages 582–585 for further labelling systems				
		F03		

- System benefits

 housing design in twin shell technology
 housing with or without ventilation slots
 installation of the 2 pole supply terminal in the 19mm housing
 8 poles possible
- solid or removable front panels

UL-Data CSA-Data Approvals



No. 22-12 AWG 300 V UG: B, D 20 A/30 A No. 22-12 AWG 300 V Gr. B

UL, CSA



No. 22-12 AWG 300 V UG: B, D 20 A/30 A No. 22-12 AWG 300 V Gr. B U, CSA

1.1	0 /			O ,		
Overall width (mm): W x H x D	width 19 x 75 x 110	0.8		width 22.5 x 75 x 1	10,8	
Individual parts	Туре	Part No. Bo	ox Qty	Туре	Part No. Bo	x Qty
Housing base, general with contour, without PCB						
1. Housing base, with mounting foot, with ventilation slots	wieBox CN 19 GKL	Z1.296.3453.0	25	wieBox CN 22 GKL	Z1.296.3853.0	25
2. Housing base, with mounting foot, without ventilation slots	wieBox CN 19 GK	Z1.296.3553.0	25	wieBox CN 22 GK	Z1.296.3953.0	25
3. Lid, without integral front panel, with contour	wieBox CN DK	07.416.5153.0	25	wieBox CN DK	07.416.5153.0	25
4. Lid, without integral front panel, without contour	wieBox CN DU	07.416.5253.0	25	wieBox CN DU	07.416.5253.0	25
5. Lid, with integral front panel, without contour	wieBox CN 19 DK	07.416.5353.0	25	wieBox CN 22 DK	07.416.5653.0	25
6. Lid, without integral front panel, without contour	wieBox CN 19 DU	07.416.5453.0	25	wieBox CN 22 DU	07.416.5753.0	25
7. Front panel, transparent	wieBox CN 19 FKG	07.416.4856.0	50	wieBox CN 22 FKG	07.416.4956.0	50
8. Front panel, gray	wieBox CN 19 FK	07.416.4853.0	50	wieBox CN 22 FK	07.416.4953.0	50
	5		-12	5 4		11 10 10 11 10 10 10 10 10 10 10 10 10 1
Housing dimensions, PCB dimensions	See page 603			See page 603		
Technical data						

	9	-6/7		
Housing dimensions, PCB dimensions	See page 603	See page 603		
Technical data				
Rated cross-section	2.5 mm ²	2.5 mm ²		
Wire range single core/finely stranded	0.14 – 4 mm²/0.14 – 2.5 mm²	0.14 – 4 mm² / 0.14 – 2.5 mm²		
Insulation strip length	6.5 mm	6.5 mm		
Rated voltage: 5mm pitch	250 V/4 kV/3 – overvoltage category III	250 V/4 kV/3 – overvoltage category III		
(in accordance with VDE 0110/01.89)	690 V/4 kV/2 - overvoltage category II (max. 600 V for	690 V/4 kV/2 – overvoltage category II (max. 600 V for		
	for non-earthed systems or expected ≤4 kV)	systems or expected ≤ 4 kV)		
	1000 V/4 kV/1 – overvoltage category I	1000 V/4 kV/1 – overvoltage category I		
Rated current	16 A	16 A		
Regulations, norms	DIN EN 50178 (VDE 0160), DIN EN 699-1 (VDE 0609 T.1)	1) DIN EN 50178 (VDE 0160), DIN EN 699-1 (VDE 0609 T.1)		
Housing material: Complete housing	PA 66/6 gray, similar to RAL 7032	PA 66/6 gray, similar to RAL 7032		
Front panel, transparent	PC 940 A	PC 940 A		
Mounting foot	PA 66/6 black	PA 66/6 black		
Flammability	UL94-V0	UL94-V0		
Type of protection	IP 40	IP 40		
Material of PCB terminal: Terminal screw	Galvanised steel	Galvanised steel		
Insulation component	PA 66/6 gray, similar to RAL 7032, UL94-V0	PA 66/6 gray, similar to RAL 7032, UL94-V0		
Clamping parts	Brass with nickel plating	Brass with nickel plating		
Contact bridge with soldering parts	Tin plated copper	Tin plated copper		
Soldering pin/bore hole	0.9 x 0.9 mm / Ø 1.3 mm	0.9 x 0.9 mm / Ø 1.3 mm		
Accessories				
9. Snap-in plate, gray	wieBox CN 19 EP 07.416.4553.0 50	wieBox CN 22 EP 07.416.4653.0 50		
10. Blanking plate, 1 pole	wieBox CN BL 1 05.561.9553.0 100	wieBox CN BL 1 05.561.9553.0 100		
11. Blanking plate, 2 pole	wieBox CN BL 2 05.561.9653.0 100	wieBox CN BL 2 05.561.9653.0 100		
12. Marker tag	wieBox CN BZ 04.244.1853.0 100	wieBox CN BZ 04.244.1853.0 100		
PCB terminal, right	8191/2- pole WVR OB 25.161.2553.0 100	8191/3- pole WVR OB 25.161.2653.0 100		
PCB terminal, left	8191/2- pole WVL OB 25.161.2853.0 100	8191/3- pole WVL OB 25.161.2953.0 100		
Mounting rail 35, DIN rail 7,5 mm high L = 2 m	35 x 27 x 7.5 EN 60715 98.300.0000.0 1	35 x 27 x 7.5 EN 60715 98.300.0000.0 1		
Mounting rail 35, DIN rail 15 mm high L = 2 m	9708/2 S 35 Z5.522.8553.0 100	9708/2 S 35 Z5.522.8553.0 100		
End clamp, Polyamide, for TS 35 8 mm wide	WE 1/U Z5.523.5753.0 100	WE 1/U Z5.523.5753.0 100		
End clamp, Polyamide, for U-Foot 10 mm wide				
See pages 582-583 for further labelling systems				

wieBox

System benefits

- housing design in twin shell technology
- housing with or without ventilation slots
- installation of the 2 pole supply terminal in the 19mm housing
- 8 poles possible
- with front plates for insertion or latching into position



No. 22-12 AWG 300 V UG: B, D 20 A/30 A No. 22-12 AWG 300 V Gr. B

(I), CSA

Approvals	3:

End clamp, Polyamide, for TS 35

End clamp, Polyamide, for U-Foot

See pages 582-585 for further labelling systems

8 mm wide

10 mm wide

9708/2 S 35

WE 1/U

Overall width (mm) : B x H x T	width 26 x 75 x 110.8	
Description	Type Part No. Box Qty	
Housing base, general with contour, without PCB		
1. Housing base, with mounting foot, with ventilation slots	wieBox CN 26 GKL Z1.296.4253.0 25	
2. Housing base, with mounting foot, without ventilation slots	wieBox CN 26 GK Z1.296.4353.0 25	
3. Lid, without integral front panel, with contour	wieBox CN DK 07.416.5153.0 25	
4. Lid, without integral front panel, without contour	wieBox CN DU 07.416.5253.0 25	
5. Lid, with integral front panel, without contour	wieBox CN 26 DK 07.416.5853.0 25	
6. Lid, without integral front panel, without contour	wieBox CN 26 DU 07.416.5953.0 25	
7. Front panel, transparent	wieBox CN 26 FKG 07.416.5056.0 50	
8. Front panel, gray	wieBox CN 26 FK 07.416.5053.0 50	
o. From paner, gray	WICEOX CIV 20 TR 07.410.0000.0 00	
	5 10 10 11 11 11 11 11 11 11 11 11 11 11	
Housing dimensions, PCB dimensions	See page 589	
Technical data		
Rated cross-section	2,5 mm ²	
Wire range single core/finely stranded	0,14 – 4 mm²/0,14 – 2,5 mm²	
Insulation strip length	6,5 mm	
Rated voltage: 5mm pitch	250 V/4 kV/3 – overvoltage category III	
(in accordance with VDE 0110/01.89)	690 V/4 kV/2 – overvoltage category II (max. 600V for	
(iii decordance with VDE 0110/01.00/	for non-earthed systems or expected ≤ 4 kV)	
	1000 V/4 kV/1 – overvoltage category I	
Rated current	16 A	
Regulations, norms	DIN EN 50178 (VDE 0160), DIN EN 699-1 (VDE 0609 T.1)	
	The state of the s	
Housing material: Complete housing Front panel, transparent	PA 6.6 gray, similar to RAL 7032 PC 940 A	
Mounting foot	PA 6.6 black UL94-V0	
Flammability Type of protection	UL94-VU IP 40	
Type of protection Material of PCB terminal: Terminal screw	-	
	Galvanised steel	
Insulation component	PA 6.6 gray, similar to RAL 7032, UL94-V0	
Clamping parts	Brass with nickel plating	
Contact bridge with soldering parts	Tin plated copper	
Soldering pin/bore hole	0,9 x 0,9 mm/Ø 1,3 mm	
Accessories	Type Part No. Box Qty	
9. Snap-in plate, gray	wieBox CN 26 EP 07.416.4753.0 50	
10. Blanking plate, 1 pole	wieBox CN BL 1 05.561.9553.0 100	
11. Blanking plate, 2 pole	wieBox CN BL 2 05.561.9653.0 100	
12. Marker tag	wieBox CN BZ 04.244.1853.0 100	
PCB terminal, right	8191/3- pole WVR OB 25.161.2653.0 100	
PCB terminal, left	8191/3- pole WVL OB 25.161.2953.0 100	
Mounting rail 35, DIN rail 7,5 mm high L = 2m	35 x 27 x 7,5 EN 60715 98.300.0000.0 1	
Mounting rail 35, DIN rail 15 mm high L = 2m	35 x 24 x 15 EN 60715 98.360.0000.0 1	
Engleichen Helvemide for IC 2E 0 mm wide	0700/2 0 75 522 0552 0 100	1

595 Subject to change without further notice

Z5.522.8553.0 100

Z5.523.5753.0 100

Electronic empty housings Marking material Labelling System STEM

Terminal markings, snap-in Housing markings, snap-in Marker tags with multiple digits Individual marker, marker strips, marker branch Individual labelling possible (numbers, symbols)

Description	Type	Part No. Box Qty	Type
Individual marker, without inscription	3 digit, 9705 A	04.242.0850.0 500	8 digit, 9705 AL
Individual marker, with inscription	3 digit, 9705 AB	04.842.0850.0 500	8 digit, 9705 ALB
(specify marking required in addition to			
part number)			
Marker strips with 5mm pitch:			
Marker strips, unmarked	9705 A/5/10	04.242.5053.0 25	
Marker strips, unmarked,	0705 41 /5/40	04.040.5450.0	
with enlarged text area	9705 AL/5/10	04.242.5153.0 25	Fri
Marker strips, marked	9705 A/5/10 B	04.842.5053.0 25	
(specify marker required in addition to	9703 A(3)10 B	04.042.0000.0 20	Ast.
Part no.)			
Marker strips, marked	9705 A/5/9 B	04.842.4953.0 25	
(marking for strips: 19)		1500	
Note:	4		
Pack unit = 25 strips = 250 tags			
Marker strips with 10 mm pitch:			
Marker strips, marked	9705 A/5/10/5 B	04.842.5553.0 25	
(as above, but only every other tag is printed)			
		1111111111	
Note:	ه. الم		
Pack unit = 25 strips = 250 tags			
Marker tag holder			
for WEB-Empty housings		04.242.1050.0 200	
Technical data			
Materials	Polyamide 66/6	15.1.1	
Colour	Black numbers on v	vhite background	



Part No.

04.242.1553.0

04.842.1553.0

Box Qtv

500

500





Snap-in terminal and housing markings Marker tags with multiple digits Individual marker, marker strips, marker branch Individual labelling possible (numbers, symbols)

Materials: Polyamide 66/6 white, black printing

	Tyne	Part No. Box Qty
		04.241.1150.0 25
	9704 A	04.241.1150.0 25
manifest man brough		
-	0704 A/1 P	04.841.1150.0 25
	<u> </u>	04.841.1250.0 25 04.841.1350.0 25
		04.841.1450.0 25
		04.841.1550.0 25
		04.841.1650.0 25
		04.841.1750.0 25
		04.841.1850.0 25
		04.841.1950.0 25
0 0 0 0 0 0 0 0	9/04 A/0 B	04.841.2050.0 25
_		
marked, per branch		
1 2 3 4 5 6 7 8 9 0	9704 A/1-0 B	04.841.2150.0 25
marked, per branch		
AAAAAAAA	9704 A/AG B	04.841.2250.0 25
	9704 A/BG B	04.841.2350.0 25
C C C C C C C C	9704 A/CG B	04.841.2450.0 25
D D D D D D D D	9704 A/DG B	04.841.2550.0 25
EEEEEEEE		04.841.2650.0 25
		04.841.2750.0 25
		04.841.2850.0 25
H H H H H H H H H		04.841.2950.0 25
		04.841.3050.0 25
		04.841.3150.0 25
K K K K K K K K K		04.841.3250.0 25
5 L L L L L L L L	9704 A/LG B	04.841.3350.0 25
	9704 A/MG B	
	· · · · · · · · · · · · · · · · · · ·	04.841.3450.0 25
M M M M M M M M M M M N N N N N N N N N	9704 A/NG B	04.841.3450.0 25 04.841.3550.0 25
M M M M M M M M M M M N N N N N N N N N	9704 A/NG B 9704 A/OG B	04.841.3450.0 25 04.841.3550.0 25 04.841.3650.0 25
M M M M M M M M M M M M M M M M M M M	9704 A/NG B 9704 A/OG B 9704 A/PG B	04.841.3450.0 25 04.841.3550.0 25 04.841.3650.0 25 04.841.3750.0 25
M M M M M M M M M M M M M M M M M M M	9704 A/NG B 9704 A/OG B 9704 A/PG B 9704 A/QG B	04.841.3450.0 25 04.841.3550.0 25 04.841.3650.0 25 04.841.3750.0 25 04.841.3850.0 25
M M M M M M M M M M M M M M M M M M M	9704 A/NG B 9704 A/OG B 9704 A/PG B 9704 A/QG B 9704 A/RG B	04.841.3450.0 25 04.841.3550.0 25 04.841.3650.0 25 04.841.3750.0 25 04.841.3850.0 25 04.841.3950.0 25
M M M M M M M M M M M M M M M M M M M	9704 A/NG B 9704 A/OG B 9704 A/PG B 9704 A/QG B 9704 A/RG B 9704 A/SG B	04.841.3450.0 25 04.841.3550.0 25 04.841.3650.0 25 04.841.3750.0 25 04.841.3850.0 25 04.841.3950.0 25 04.841.4050.0 25
M M M M M M M M M M M M M M M M M M M	9704 A/NG B 9704 A/OG B 9704 A/PG B 9704 A/QG B 9704 A/RG B 9704 A/RG B 9704 A/RG B	04.841.3450.0 25 04.841.3550.0 25 04.841.3650.0 25 04.841.3750.0 25 04.841.3850.0 25 04.841.3950.0 25 04.841.4050.0 25 04.841.4150.0 25
M M M M M M M M M M M M M M M M M M M	9704 A/NG B 9704 A/OG B 9704 A/PG B 9704 A/QG B 9704 A/RG B 9704 A/SG B 9704 A/TG B 9704 A/UG B	04.841.3450.0 25 04.841.3550.0 25 04.841.3650.0 25 04.841.3750.0 25 04.841.3850.0 25 04.841.3950.0 25 04.841.4050.0 25 04.841.4150.0 25 04.841.4250.0 25
M M M M M M M M M M M N N N N N N N N N N N N O O O O O O O O O O P P P P P P P P P P P P Q Q Q Q Q Q Q Q Q Q Q R R R R R R R R R R S S S S S S S S S S T T T T T T T T T T T T U U U U U U U U U U V V V V V V V V V	9704 A/NG B 9704 A/OG B 9704 A/OG B 9704 A/OG B 9704 A/OG B 9704 A/NG B 9704 A/NG B 9704 A/UG B 9704 A/UG B	04.841.3450.0 25 04.841.3550.0 25 04.841.3650.0 25 04.841.3750.0 25 04.841.3850.0 25 04.841.3950.0 25 04.841.4050.0 25 04.841.4150.0 25 04.841.4250.0 25 04.841.4250.0 25
M M M M M M M M M M M N N N N N N N N N N N N O O O O O O O O O O O P P P P P P P P P P P P P Q Q Q Q Q Q Q Q Q Q Q R R R R R R R R R R R S S S S S S S S S S T T T T T T T T T T T T T U U U U U U U U U U U V V V V V V V V V V W W W W W W W W W W	9704 A/NG B 9704 A/OG B	04.841.3450.0 25 04.841.3550.0 25 04.841.3650.0 25 04.841.3750.0 25 04.841.3850.0 25 04.841.3950.0 25 04.841.4050.0 25 04.841.4150.0 25 04.841.4250.0 25 04.841.4250.0 25 04.841.4350.0 25 04.841.4350.0 25
M M M M M M M M M M M N N N N N N N N N N N N O O O O O O O O O O P P P P P P P P P P P P Q Q Q Q Q Q Q Q Q Q Q R R R R R R R R R R S S S S S S S S S S T T T T T T T T T T T T U U U U U U U U U U V V V V V V V V V	9704 A/NG B 9704 A/OG B 9704 A/OG B 9704 A/OG B 9704 A/OG B 9704 A/NG B 9704 A/NG B 9704 A/UG B 9704 A/UG B	04.841.3450.0 25 04.841.3550.0 25 04.841.3650.0 25 04.841.3750.0 25 04.841.3850.0 25 04.841.3950.0 25 04.841.4050.0 25 04.841.4150.0 25 04.841.4250.0 25 04.841.4250.0 25
	marked, per branch A A A A A A A A A A A A A A A A A A A	1

Labelling System

Snap-in terminal and housing markings Marker tags with multiple digits Individual marker, marker strips, marker branch Individual labelling possible (numbers, symbols)

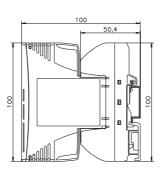
		Туре	Part No. Box Qty
th row of same symbols	marked, per branch		
	+++++++++	9704 A/+B	04.841.7450.0 25
		9704 A/-B	04.841.7550.0 25
		9704 A//B	04.841.7650.0 25
		9704 A/.B	04.841.750.0 25
. (
et of same symbols = 10 x 25 branches = 2500 characters			
th row of same letters in lower case	marked, per branch		
th row of same letters in lower case		9704 A/AK B	04.841.4850.0 25
m m m m	b b b b b b b b	9704 A/BK B	04.841.4950.0 25
m m m m	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9704 A/CK B	04.841.5050.0 25
	d d d d d d d d	9704 A/DK B	04.841.5150.0 25
	e e e e e e e e e	9704 A/EK B	04.841.5250.0 25
	f f f f f f f f	9704 A/FK B	04.841.5350.0 25
	9 9 9 9 9 9 9 9	9704 A/GK B	04.841.5450.0 25
	h h h h h h h h h	9704 A/HK B	04.841.5550.0 25
		9704 A/IK B	04.841.5650.0 25
		9704 A/JK B	04.841.6750.0 25
	k k k k k k k k	9704 A/KK B	04.841.6850.0 25
		9704 A/LK B	04.841.6950.0 25
	m m m m m m m m	9704 A/MK B	04.841.6050.0 25
	nnnnnnn	9704 A/NK B	04.841.6150.0 25
	0 0 0 0 0 0 0 0 0	9704 A/OK B	04.841.6250.0 25
	p p p p p p p p	9704 A/PK B	04.841.6350.0 25
	9 9 9 9 9 9 9	9704 A/QK B	04.841.6450.0 25
	rrrrrrr	9704 A/RK B	04.841.6550.0 25
	S S S S S S S S	9704 A/SK B	04.841.6650.0 25
	ttttttt	9704 A/TK B	04.841.6750.0 25
	u u u u u u u u	9704 A/UK B	04.841.6850.0 25
	V V V V V V V V V	9704 A/VK B	04.841.6950.0 25
	w w w w w w w w	9704 A/WK B	04.841.7050.0 25
	x x x x x x x x x x x	9704 A/XK B	04.841.7150.0 25
	y y y y y y y y	9704 A/YK B	04.841.7250.0 25
set of lower case letters = 26 x 25 branches = 6500 letter	erszzzzzzzz		

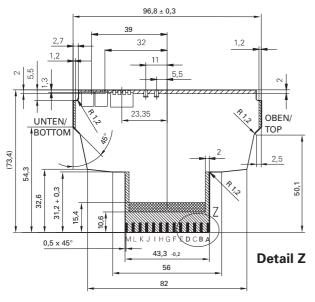
dipos 005

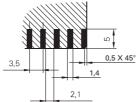
Plan view

12.5 (17,5 / 22,5)

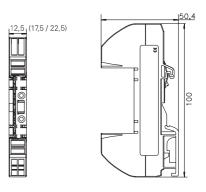
Housing







Module board



Version (mm width)	12.5	17.5	22.5
Component height	7.15	10.35	15.35
Endurance	2.35	4.15	4.15
Max.component height Max.endurance	6.25	8.7	13.7
	1.4	2.7	2.7
Max.component height Blocking zones	1.05	0.95	5.95

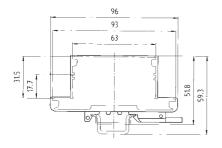
Note: Contact is made on both sides of the terminal faces. Components that generate heat should always be placed in the vicinity of the ventilation slots (upper section of the PCB)

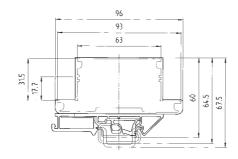
PCB: FR4 Thickness: 1.0 mm Copper support: \geq 35 µm (I \leq 3 A) \geq 70 µm (I > 3 A)

WEB EB

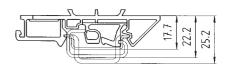
Dimensions for WEB empty housing for sizes 1, 3, 6 and 8 with foot TS 35

Dimensions for WEB empty housing for sizes 1, 3, 6 and 8 with universal foot



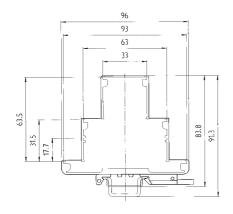


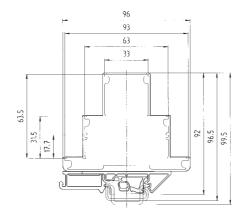
Dimensions of universal foot



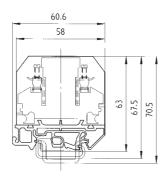
Dimensions for WEB empty housing for sizes 2, 4, 7 and 9 with foot TS 35

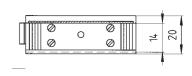
Dimensions for WEB empty housing for sizes 2, 4, 7 and 9 with universal foot



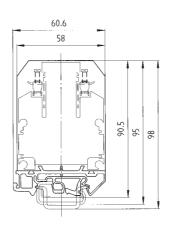


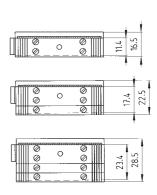
Dimensions of **WEG** overall width: 20 mm





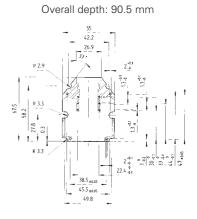
Dimensions of **WEG** overall width: 16.5 mm overall width: 22.5 mm overall width: 28.5 mm





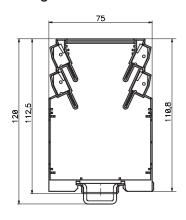
Dimensions of **WEG** PCB sizes

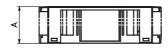
Overall depth: 63 mm



wiebox Box

Dimension of wieBox housing





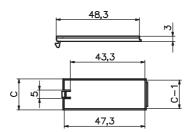
Drawing dimensions

		Dim A	Dim B	Dim C	Dim D
	CN 19	19	17	18	18
ĺ	CN 22	22.5	20.5	21.5	21.5
	CN 26	26	24	25	25

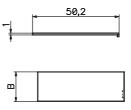
(3/4) Lid



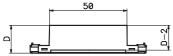
(6/7) Front flap



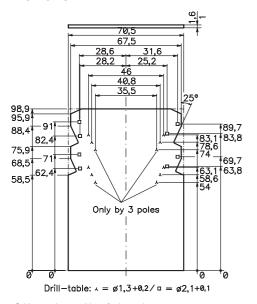
(9) Snap-in plate



(5/8) Lid



Dimensions of wieBOX **PCB** size







Electrical installation today: plug in and go Gesis® EIB

GST18

The components of the product line GST 18 are certified according to DIN VDE 0628 and are suited for installation of lighting systems, switches and outlets. They are available in 3 pole, 4 pole, 5 pole and 6 pole configurations and are rated up to 250V or 250/400V, 16A.

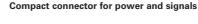
BST / EST

You can choose among three product series for the transmission of 2 pole EIB signals. Depending upon your application, you can select either the BST bus connector or the compact connector of the EST line. Wherever you require both power and signal at the same time, these twin connectors have proven extremely practical. All products of this line are marked with a green EIB coding.

Flat cable systems

The flat cable technology can, without a doubt, be called a revolution in the field of electrical installation. The system is based upon a flat cable which combines five insulated wires for electrical network applications and, in parallel, a 2 pole screened signal line – all in one cable. For applications requiring only one version, we also provide the flat cables separately. Connectivity is

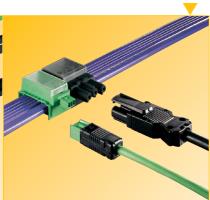
Components in 2 pole, 3 pole, 4 pole, 5 pole and 6 pole configuration











A special variation – mechanically not compatible of course – allows for the transmission of bus, control or loudspeaker signals.

achieved by means of an insulation piercing connection technique which is possible at any point on the main line. Without having to interrupt the main line, you can add a required branch line by means of plug-in connectors.

gesis

Low voltage systems

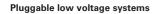
The *gesis* system also allows for low voltage systems as well. Using pluggable electrical transformers, you can change directly to the two low voltage lines ST16 or ST17.

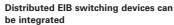
EIB systems

Distributed EIB switching devices can be easily integrated into the installation system as required due to its pluggable design. These EIB switching devices are available in two basic versions: EIB-V, which is characterized by its flat and compact design. And EIB-M, a highly flexible solution which is comprised of individual modules.

Stacking coordinates

The stacking coordinates provide an individual solution for each application. The coordinates are made of zinc-plated sheet steel and are equipped with TS 35 mounting rails. They accept both terminal blocks and modular devices in any configuration. The *gesis* connector system functions as an interface over the entire network leading to the end devices.











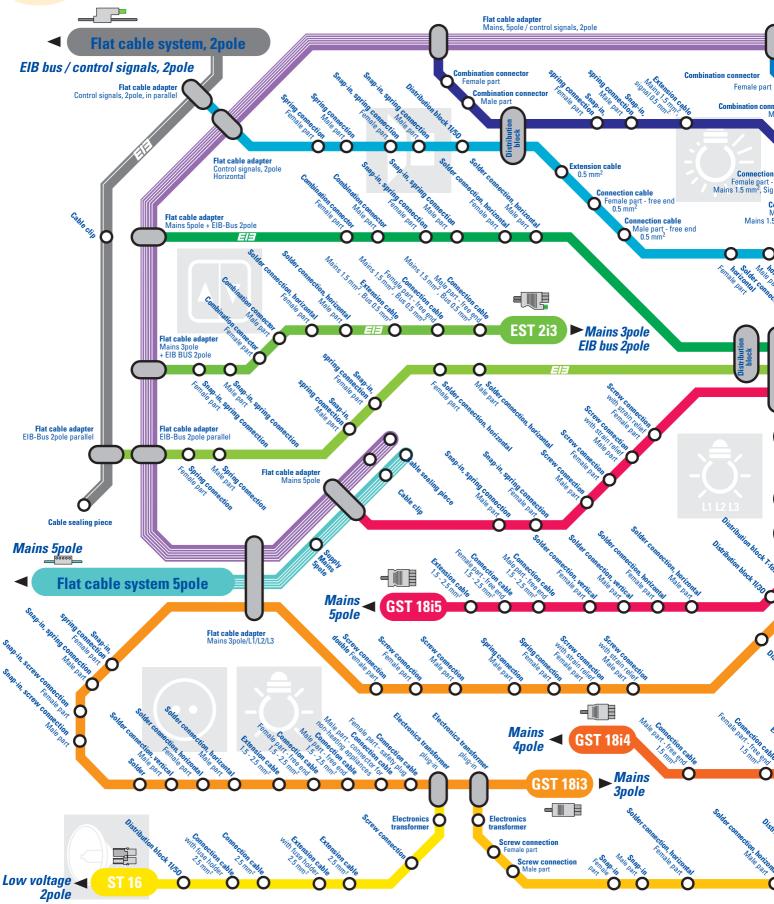


Please contact Wieland Electric Inc. for your *gesis* systems catalog.

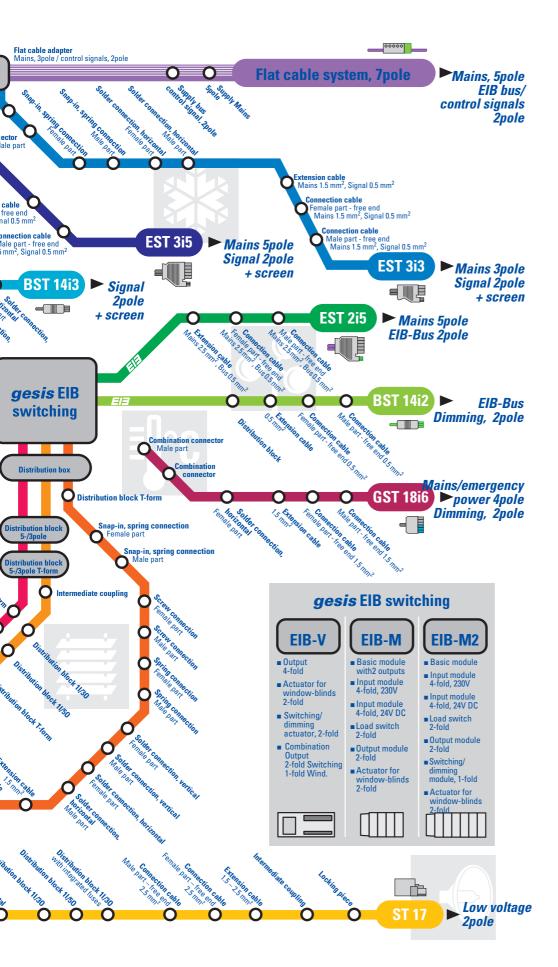


Schedule for connectable

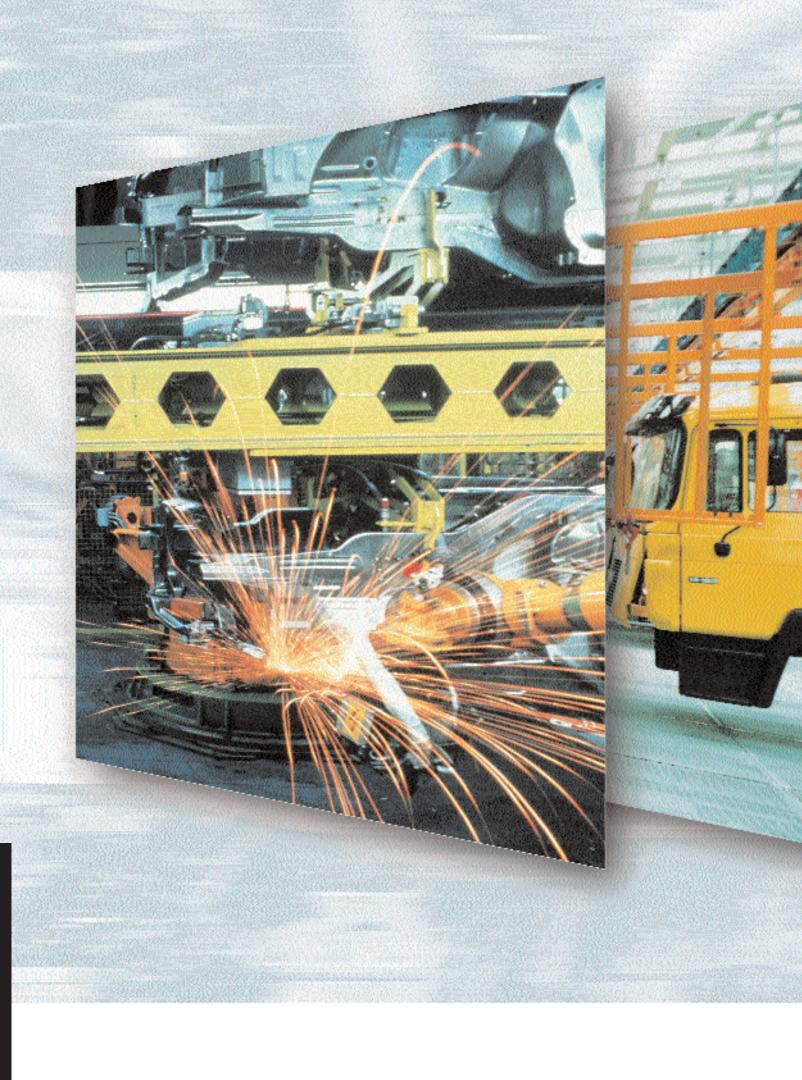




Contents



GST 18i3 Mains, 3pole **GST 18i4** GST 18i5 Mains, 5pole **GST 18i6** Mains/emergency power supply 4pole Dimming, 2pole **BST 14i2** EIB bus Dimming, 2pole EST 2i3 Mains, 3pole EIB bus, 2pole EST 2i5 Mains, 5pole EIB bus, 2pole BST 14i3 Signal, 2pole + screen **EST 3i3** Mains, 3pole Signal, 2pole + screen **EST 3i5** Mains, 5pole Signal, 2pole Flat cable system, 5pole Mains, Spole 00000 Flat cable system, 2pole EIB bus/control signals, 2pole Flat cable system, 7pole Mains, 5pole EIB bus/control signals, 2pole 00000 **ST 16** Low voltage, 2pole ST 17 Low voltage, 2pole **gesis** EIB switching devices EIB-V EIB-M EIB-M2 EI3 **Distributor Accessories Technical information**







Series		Rated voltage		Rated current
Introduction	Industrial multipole connectors	VDE UL,	/CSA	
revos basic	Inserts/hoods and housings	500 V	600 V	16 A
	Multipole adapters	500 V	600 V	16 A
	Inserts/hoods and housings	690 V/400 V	600 V	16 A
	Multipole adapters	500 V	600 V	16 A
	Inserts/hoods and housings	690 V	600 V	16 A
	Multipole adapters	500 V	600 V	16 A
	Multiple multipole connectors	500 V	600 V	16 A
	Sets with 2 components			
	 Multipole adapters 	500 V	600 V	16 A
	 Multipole adapters 	500 V	600 V	16 A
	 Multipole adapters 	690 V/400 V	600 V	16 A
	Sets with 4 components	500 V	600 V	16 A
	Strain relief frames	500 V	600 V	16 A
		690 V	600 V	16 A
		250 V	600 V	10 A
	EMC			
revos power		400 V	600 V	35 A
		690 V	600 V	35 A
		690 V/400 V	600 V	82 A
		690 V	600 V	35 A/16 A
		690 V/400 V 400 V/230 V	600 V	40 A/16 A
		690 V/400 V	600 V	100 A/40 A/16 A
		690 V/400 V	600 V	82 A/16 A CSA 70 A/16 A
revos mini		250 V + 400 V	600 V	10 A
		50 V + 250 V 42 V	+ 600 V	10 A
revos HD	Inserts/hoods and housings	250 V	600 V	10 A
	Multipole adapters	250 V	600 V	10 A
revos flex	Cable to cable couplings	100 V to 1000 V 60 V	- 600 V	CSA 5 A - 35 A 5 A to 40 A
revos IT	Data cable feed-through D-SUB			
revos mot		690 V		16 A
revos SLIDE		250 V		10 A
revos EEx i	Special version	90 V		16 A
revos	Accessories			



Number of poles + ground	Connection style	
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6, 10, 16, 24, 32, 48	Screw and crimp connection	Page 654
6, 10, 16, 24	Screw and spring connection	Page 654
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6, 10, 16, 24	Screw connection	Page 668
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40, 64	Screw and crimp connection	Page 682
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6	Screw connection	Page 688
6	Screw connection	Page 692
4	Screw connection	Page 696
4- / 6	Screw connection	Page 698
6- / 6	Screw connection	Page 702
3-/3-/6	Screw connection	Page 704
4- / 2	Screw connection	Page 706
3, 4	Screw connection	Page 712
7, 8	Crimp connection	Page 712
15, 25, 40, 64	Crimp connection	Page 718
		B 700
		Page 732
		Page 740
		Page 754
9 to 100	Solder connection	Page 756
10	Crimp connection	Page 758
24	Crimp connection	Page 760
6, 10, 16, 24, 48	Screw connection	Page 766
		Page 774

Industrial multipole connectors

General Control of the Control of th

Industrial multipole connectors are specially designed for applications under extreme external conditions. The main areas of application are the automotive industry, machine construction and industrial system building, and I&C technology.

They make the installation of machines and industrial systems easier and help to save time. The units or components can be put to in-house quality checks and make the start-up of industrial systems much easier and faster.

Industrial multipole connectors by Wieland have existed in their proven quality for centuries. Today, they are integrated into new product families:

revos basic

the proven robust multipole connectors in a comprehensive and versatile product range

revos POWER

for rated currents higher than 16 A, also available with mixed contacts

revos MINI

our robust small connectors in 3pole through 8pole configurations

revos HD

high-density connector family 15pole through 64pole configurations accord. to

DIN EN 175301-801

revos FLEX

modular system for an efficient, intelligent mixture of contacts in industrial

multipole connectors

combinations of 4 frame sizes, 5 different inserts,

17 contact variants and 306 hood/housing

varieties meet all possible requirements

revos IT

data cable feedthrough – the ideal solution for cable entries into closed-bottom housings. They provide a tight connection with strain relief, without

disconnecting

revos mot

the new generation of multipole connectors with a plastic housing made from UV and salt water

resistant Polyamide

easy handling due to the unique locking lever. 10pole version for rated voltages of 690 V AC and rated currents of 16 A

revos slide

the new 24pole multipole connector with floating connections for applications in the control cabinet. Safe and automatic connection for applications

with the EX slide-in technique are guaranteed by the available guiding pins.

revos Ex

EEx ia connectors for applications in explosion hazardous areas such as in mining and oil refineries

zone 1 applications are only possible with robust hoods and housings made from zinc die cast aluminum with blue finish

revos class I, Zone 2 multipole kits are available certified to CSA standard C 22.2 182.3, E-79-15-95.





Industrial multipole connectors Hoods and housings

revos





Areas of application

For most demanding requirements such as in the automotive industry, in machine construction, in industrial system building, and for the I&C technology

Identification

Hoods and housings with silicon-free finish in silver gray (similar to RAL 7001)

Material

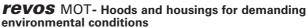
die cast aluminum alloy

Locking levers

zinc-plated steel

Cable glands

special cable glands for hoods with strain relief and/or protection against bending



Areas of application

For aggressive environments and extreme climatic conditions in all types of applications

Identification

Hoods and housings in black (RAL 9005)

Material

Polyamide

Locking spring

stainless steel

Cable glands

special cable glands made from plastic material with strain relief and protection against bending

revos BASIC- Hoods and housings for extreme environmental conditions

Areas of application

For electrical interfaces in exterior applications, for extreme climatic conditions or wet zones, and for exterior railway applications

Identification

gray coloring, internal gaskets

Material

corrosion-resistant die cast aluminum alloy

Locking levers

galvanically zinc-plated steel

Cable glands

special cable glands (not part of the standard scope of supply)

revos BASIC - Hoods and housings with high EMI shielding

Areas of application

For all applications in which protection against electric, magnetic or electromagnetic fields is required for the safety of the industrial system

Identification

conductive surface, silver-plated contact zone

Materia

die cast aluminum alloy

Locking levers

zinc-plated steel

Cable glands

EMC cable glands







Areas of application

Applications in mining, in machine construction, in control system and switchgear building, especially in instrinsically safe electrical systems

Identification

hoods and housings with light blue finish

die cast aluminum alloy

Locking levers

zinc-plated steel

Cable glands

EEx ia cable glands

Please contact us for Class I, Zone 2 Multipole Kits, certified to CSA standard: C 22.2 182.3, E-79-15-95





revos MINI - small design

Areas of application

Applications in machine construction, in control system and switchgear building, inside of lighting systems and small motors

Identification

plastic: gray metal: silicon-free finish in gray

Material

thermoplastic material zinc die cast aluminum alloy

Locking levers

zinc-plated steel

Cable glands

standard cable glands

617

Industrial multipole connectors Female and male connector inserts

revos







- ☐ Mounted in the direction of the power flow (female insert is live)
- No mismating due to the special design of the female and male inserts
- Consecutive numbers both on the contact and on the connection sides
- Mixed contacts possible

with screw connection

- Captive hardware
- ☐ Screws are protected against accidental loosening
- Delivered with open clamping body
- Versions with and without wire guard
- ☐ Wire guards prevent stranded wires from being damaged
- ☐ Due to an integrated screwdriver guide, both electric and pneumatic screwdrivers can be used

with crimp connection

- ☐ Corrosion-resistant due to gas-tight connections (cold welding)
- Constant feed through resistance
- Rapid mounting
- ☐ Crimp contacts safely latch into the female and male inserts
- ☐ Female and male contacts in various cross sections
- ☐ The cross sections are represented by ID rings on the contacts:

0.	.50	mm²	– ring	20 AWG
0.	.75 - 1	mm^2	1 ring	18 AWG
1.	.50	mm^2	2 rings	16 AWG
2.	.50	mm^2	3 rings	14 AWG
4.	.00	mm^2	– ring	12 AWG
4.	.00	mm²	– ring	12 AW

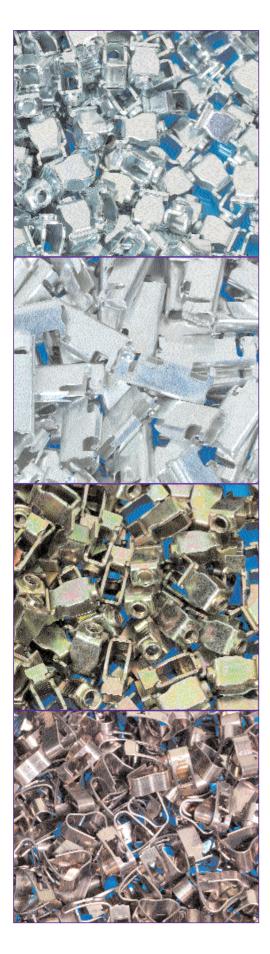
For crimping tools see facts & DATA

with spring connection

- ☐ Vibration and shock proof connections
- ☐ Low feed through resistance
- ☐ Connection style: 0.14 2.5 mm² 26 12 AWG, solid and fine stranded
- ☐ High installation comfort due to TOP connections
- Wire entry in parallel to the screwdriver
- ☐ Screwdriver blade: 3.5 mm x 0.5 mm
- ☐ Plug together with the screw and crimp connectors

Materials

revos



for screw connection

- ☐ Contact parts: Brass with surface treatment
- ☐ Wire guard: phosphor bronze
- ☐ Clamping screws: galvanically refined steel

for crimp connection

☐ Female and male contacts: brass, galvanic surface treatment

for spring connections

- ☐ Spring: refined spring steel
- ☐ Current carrying bar: copper alloy, with galvanic surface treatment



for female and male connector inserts

☐ Insulating parts from fiberglass reinforced Polyamide (for technical information see *facts* & DATA)

for multipole adapters

☐ Insulating part: Polyamide Contact parts: tin-plated brass

Industrial multipole connectors











Technical information:

Material:

Hoods and housing: die cast aluminum

alloy

Surface: silver gray, silicon-

free finish

Mounting plates for female and

male connector inserts: nickel-plated brass

Ground contact screw

connection: nickel-plated brass

Male pins and

female contacts: Brass

with surface treatment

Clamping screws: galvanically

zinc-plated steel

Locking levers: galvanically

zinc-plated and dichromated steel nickel-plated brass

Pressure screw: nickel-plated br

Pressure screw with strain

relief and flared

cable entry: nickel-plated brass

Gaskets: Neoprene

(oil-resistant and anti-aging)

Hinged cover: Polyamide

Temperature range: $-40^{\circ} \text{ C} - +110^{\circ} \text{ C}$

Insulating parts for: 70.3; 70.5; 70.7;

Polyamide, fiberglass

reinforced

Multipole adapters:

Female and

male connector inserts: Polyamide, fiberglass

reinforced

Adapter

Insulating part: Polyamide Contact parts: tin-plated brass

Wire strip length

for the multipole adapters: 9 - 12 mm

Degree of protection

accord. to DIN 60 529: IP 55





Multipole adapters

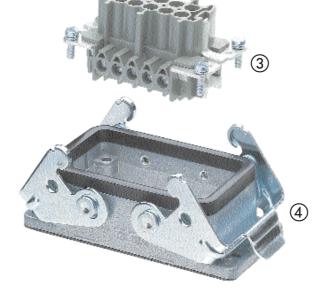
- ☐ Space-saving connection element for industrial multipole connectors consisting of: connector contact insert with snap-onconnector
- Multipole adapters are available with female or male connector inserts
- ☐ Preassembled unit complete with male housing for mounting to the control cabinet wall
- ☐ Easy handling: slide the multipole adapter to the housing and fix it with screws
- ☐ TOP connection design
- ☐ Testing possible when connected, i.e. no power interruption necessary
- ☐ Clearly identified and easily accessible clamping points
- ☐ 4digit or 6digit marking fields
- ☐ Safe and time-saving wiring
- ☐ Reduced control cabinet space due to the small design
- Potential commoning due to an insulated jumper bar

Industrial multipole connectors









A complete industrial multipole connector consists of the following components:

① Hood

- low and high designs
- ☐ narrow-side, wide-side and top cable entries
- ☐ Single or double locking levers with cable glands version 7x.xxx.xxxx.0 version 7x.xxx.xxxx.3

② Female and

(3) male inserts

- $\ \square$ screw connection
- ☐ crimp connection (contacts supplied separately)
- spring connection

(4) Housing

- open-bottom housing
- with or without plastic cover
- ☐ single or double locking lever
- ☐ closed-bottom housing with cable glands
- ☐ low or high designs
- one or two locking levers with cable glands version 7x.xxx.xxxx.0
- □ cable to cable coupling

(5) Cable gland

- ☐ cable glands in IP 65 made from plastic or nickel plated-brass
- special cable glands with strain relief and protection against bending
- ☐ EMC cable gland
- ☐ EX cable gland
- □ Large range of accessories

Accessories

- coding pins
- □ marking tags

The following versions of multipole connector hoods are available:



Version A

Hood with narrow-side entry cable gland on the right



Version B

Hood with wide-side entry cable gland in the front



7x.xxx.xxxx.0



7x.xxx.xxxx.1



7x.xxx.xxxx.2



Available hoods and housings:

Hoods

☐ with cable gland, without strain relief

with metric thread

☐ with integrally cast or screwed in metric intermediate support

with strain relief

7x.xxx.xxxx.0 7x.xxx.xxxx.1

7x.xxx.xxxx.2 7x.xxx.xxxx.3

The cable glands are delivered together with sealing gaskets. The gaskets have different cuts for the various cable diameters and can be cut out as required.

By using the suited cable glands (see the accessories) you will achieve IP 65 degree of protection.



Version C

Hood with top entry cable gland



Version D

Hood with narrow-side entry cable gland on the right and locking levers



Version E

Hood with wide-side entry cable gland in the front and locking levers



Version F

Hood with top entry cable gland and locking levers

Industrial multipole connectors Housings TEVOS

Housings

- open-bottom design (versions a and e)
- closed-bottom design (versions b, c, d, f, g, h and i)

Open-bottom housings

These housings are open at the bottom for panel mounting. They are equipped with two gaskets.

- one gasket at the bottom
- another gasket between housing and hood

The main area of application is the connection of control and line signals to the control cabinet. The mating hood is mounted to the housing on the control cabinet wall.





Version a

Open-bottom housing



Version b

Closed-bottom housing with two cable glands



Version c

Closed-bottom housing with one narrow-side entry cable gland at the left



Version d

Closed-bottom housing with one bottom entry cable gland



Closed-bottom housings

 with metric cable gland, without strain relief 7x.xxx.xxxx.0



and two cable glands

• with metric thread **7x.xxx.xxxx.1**

These housings usually have one or two cable entries. They are sealed by means of an appropriate cable gland. Additionally, the cable glands function as reliable strain reliefs for the clamping points.



and one narrow-side entry

cable gland at the left

and one narrow-side entry

cable gland at the right

and one bottom entry

cable gland

Information on how to change over from Pg to metric threads **TEVOS** BASIC**

Pg threads are available upon request!

1. Basic legal conditions

The European standard EN 50 262 "Metric Cable Glands for Electrical Installation" was ratified on April 01, 1989 by CENELEC (European Committee for Electrotechnical Standardization) and put into force.

A corresponding German standard DIN EN 50 262 published in March 1999 will then replace the national standards: VDE security standard 0619 quoting standards DIN 46 319 and DIN 46 320, with a transition period until March 01, 2001.

EN 50 262 is valid in all EC countries and countries not belonging to the EC and cooperating in CENELEC will accept the standard.

The big difference in the new EN standard is its character as a security standard. As a building standard it only defines the metric thread and its lead.

2. Effects of the change

The changeover will affect all manufacturers of cable glands, cable entries and housings for rectangular connectors.

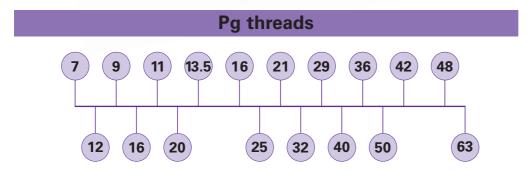
The ten Pg sizes:

Pg 7 / 9 / 11 / 13.5 / 16 / 21 / 29 / 36 / 42 and 48

are replaced by eight metric sizes:

M 12 / 16 / 20 / 25 / 32 / 40 / 50 and 63

3. Comparison of the Pg/metric cable gland sizes



Metric threads

4. Assigning the Pg/metric cable glands

As the ten Pg sizes are replaced by eight metric threads, the users have to reassign the connection ranges of the cables to the thread sizes and housings.

The cable gland manufacturers have different assignments because the new standard is not a construction standard and does not specify any standardization.

5. Conversion

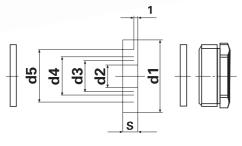
5.1 Comparison between Pg thread and metric thread

Pg thread	Metric thread	Preferred types
Pg 7	M 12	
Pg 9	M 16	
Pg 11	M 20	X
Pg 13.5	M 20	X
Pg 16	M 20	X
Pg 21	M 25	x
Pg 29	M 32	X
Pg 36	M 40	
Pg 42	M 50	

Hoods of the revos BASIC series with Pg thread 13.5 and 16 are also available with M 25, while PG thread 21 is also available with M 32 thread.

If you require the Pg 16 and 24 housings in M 32, you will have to use the housings of high design.

5.2 Connection range for housing versions 7x.xxx.xxxx.0



For more information visit us on the internet under www.wieland-electric.com

Please see the following table for the connection ranges of cable glands without strain relief:

Metric thread	d1	d2	Connection range in mm	d3	Connection range in mm	d4	Connection range in mm	d5	Connection range in mm
M 16	13.8	3	2 – 4.5	6	5 - 7.5	9	8 – 10.5		
M 20	17.6	4	3 – 5.5	7	6 - 8.5	10	9 – 11.5	13	12 - 14.5
M 25	22.6	8.5	7.5 – 10	11.5	10.5 – 13	14.5	13.5 – 16	17.5	16.5 – 19
M 32	29.6	16	15 – 17.5	19	18 – 20.5	22	21 – 23.5	25	24 – 26.5

5.3 Connection ranges for housing versions with flared gland 7x.xxx.xxxx.3

Metric thread	Connection range in mm
M 16	6 - 9
M 20	9 – 13.5
M 25	14 - 20
M 32	19 – 29

Information on hazardous location approval: Class I, Zone 2 Multipole Kits are available certified to CSA standard C22.2 182.3, E-79-15-95.

Please contact us to discuss your applications.

Industrial multipole connectors

revos Basic

Technical information

- Approvals
- Applicable standards
- Contact inserts

Rated current Rated voltage

Nominal voltage accord. to UL Nominal voltage accord. to CSA

Pole configurations

Screw connection Crimp connection Spring connection Degree of pollution Temperature range

■ Multipole adapter

Rated current Rated voltage

Nominal voltage accord. to UL Nominal voltage accord. to CSA

Pole configurations Screw connection Spring connection Degree of pollution Temperature range

Contacts

Material Surface (screw, crimp, multipole adapter contacts) Surface (crimp, screw contacts) Surface (crimp,

spring contacts)

Hoods and housings

Material Surface Locking levers Gaskets

Temperature range Degree of protection accord. to DIN EN 60 529 with latched locking levers with appropriate cable gland UL, CSA, SEV IEC 61 984

16 A 500 V 600 V 600 V 6, 10, 16, 24, 32 (2×16) 48

32 (2x16), 48 (2x24), + ground 0.5 - 2.5 mm² / 20 - 12 AWG 0.5 - 4.0 mm² / 20 - 12 AWG 0.14 - 2.5 mm² / 26 - 12 AWG

3

-40 to +110 °C

16 A 500 V 600 V

600 V 6, 10, 16, 24, + ground 0.5 – 4.0 mm² / 20 – 12 AWG 0.5 – 2.5 mm² / 20 – 12 AWG

3

-40 to +110 °C

copper alloy

tin-plated

gold-plated

silver-plated

die cast aluminum alloy silver gray, silicon-free finish zinc-plated steel

NBF

-40 to +110 °C

IP 55 IP 65



Industrial Multipole Connectors Female/male inserts and multipole adapter

revos Basic









500 V, 16 A IEC 61 984

600 V UL/CSA

500 V, 16 A	L IEC 61 984	600 V UL/CSA						
		Rate	ed curren	t Cross section	Approvals	Wire strip length	Contacts	Std. pack
		Female insert	16 A	0.25 – 2.5 mm ² 22 – 12 AWG	⊕@#© ⊕@#© ⊕@#© ⊕@#©	7 mm 7 mm	tin-plated gold-plated	10 5 10
at	Screw connection	Male insert	16 A	0.25 – 2.5 mm ² 22 – 12 AWG	⊕0 1 P (\$)	7 mm	tin-plated	10
Secret D					⊕01 €	7 mm	gold-plated	
7		Female insert without crimp contacts	16 A	0.5 – 4.0 mm ² 20 – 12 AWG	<i>⊕</i> #€	7 mm	tin-plated	10
	Crimp connection	Male insert	16 A	0.5 – 4.0 mm ²	\$726 \$726	7 mm	tin-plated	10
7		without crimp contacts		20 – 12 AWG	® ₩\$, , , , , ,	5
		Female insert 500 V / IEC 61 989	16 A	0.14 – 2.5 mm ² 26 – 12 AWG	91 @	7 mm	silver-plated	10
11117	Spring connection				91 0			5
A LESSON OF THE PARTY OF THE PA		Male insert 500 V / IEC 61 989	16 A	0.14 – 2.5 mm ² 26 – 12 AWG	91. @	7 mm	silver-plated	10 5
A STATE OF THE PARTY OF THE PAR		Female insert, ground right	16 A	0.5 – 4.0 mm ² 20 – 12 AWG	⊕®Æ§	12 mm	tin-plated	10
	Screw connection Multipole adapter	Female insert, ground left	16 A	0.5 – 4.0 mm ² 20 – 12 AWG	⊕® ₩ ②	12 mm	tin-plated	10
William S	long design (6 marking fields)	Male insert, ground right	16 A	0.5 – 4.0 mm ² 20 – 12 AWG	⊕01 ₽(\$)	12 mm	tin-plated	10
	, , , , , , , , , , , , , , , , , , ,	Male insert, ground left	16 A	0.5 – 4.0 mm ² 20 – 12 AWG	⊕® #€	12 mm	tin-plated	10
		Female insert, ground right	16 A	0.5 – 4.0 mm ² 20 – 12 AWG	⊕01 ₽€	12 mm	tin-plated	10
	Screw connection	Female insert, ground left	16 A	0.5 – 4.0 mm ² 20 – 12 AWG	⊕01 17€	12 mm	tin-plated	10
IIIII	Multipole adapter short design	Male insert, ground right	16 A	0.5 – 4.0 mm ² 20 – 12 AWG	⊕®1 ₽(\$)	12 mm	tin-plated	10
SEREE .	(4 marking fields)	Male insert, ground left	16 A	0.5 – 4.0 mm ² 20 – 12 AWG	\$91€	12 mm	tin-plated	10
		Female insert, ground right	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	91/9	9 mm	tin-plated	10
Vertical Control	Spring connection Multipole adapter	Female insert, ground left	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	91/0	9 mm	tin-plated	10
6	short design (6 marking fields)	Male insert, ground right	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	@	9 mm	tin-plated	10
	(6 marking fields)	Male insert, ground left	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	91 ®	9 mm	tin-plated	10

Contacts for c	rimp version	Cross section	mm²	Part no.	Std. pack	Cross section	mm²	Part no.	Std. pack
Female contacts		0.75 – 1 1.5 2.5	18 AWG 16 AWG 14 AWG	tin-plated 02.123.7021.0 02.123.7121.0 02.123.7221.0 02.123.7321.0 02.123.7421.0	200 200 200 200 200	0.5 0.75 – 1 1.5 2.5	18 AWG 16 AWG 14 AWG	gold-plated 02.123.7001.0 02.123.7101.0 02.123.7201.0 02.123.7301.0 02.123.7401.0	200
Male contacts		0.75 – 1 1.5 2.5	18 AWG 16 AWG 14 AWG	05.543.7021.0 05.543.7121.0 05.543.7221.0 05.543.7321.0 05.543.7421.0	200 200 200 200 200	0.5 0.75 – 1 1.5 2.5 4	18 AWG 16 AWG 14 AWG	05.543.7001.0 05.543.7101.0 05.543.7201.0 05.543.7301.0 05.543.7401.0	200
Crimping tool Crimping die "B" Contact positioner , Extraction tool	,3"			95.101.0800.0 05.502.2100.0 05.502.3300.0 05.502.3500.0	1 1 1			silver-plated upon request	

6pole + ground	10pole + ground	0pole + ground 16pole + ground		32pole + ground	48pole + ground		
				2 insert 1 – 16 poles 17 – 32 poles	2 inserts 1 - 24 poles 25 - 48 poles		
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.		
70.300.0640.0	70.300.1040.0	70.300.1640.0	70.300.2440.0	70.300.3253.0	70.300.4840.0		
70.301.0640.0	70.301.1040.0	70.301.1640.0	70.301.2440.0	70.300.3233.0	70.300.4640.0		
70.310.0640.0	70.310.1040.0	70.310.1640.0	70.310.2440.0	70.310.3253.0	70.310.4840.0		
70.311.0640.0	70.311.1040.0	70.311.1640.0	70.311.2440.0	70.010.0230.0	70.010.4040.0		
70.700.0658.0	70.700.1058.0	70.700.1658.0	70.700.2458.0				
				70.700.3253.0	70.700.4858.0		
70.710.0658.0	70.710.1058.0	70.710.1658.0	70.710.2458.0				
				70.710.3253.0	70.710.4858.0		
70.500.0653.0	70.500.1053.0	70.500.1653.0	70.500.2453.0				
				70.500.3253.0	70.500.4853.0		
70.510.0653.0	70.510.1053.0	70.510.1653.0	70.510.2453.0				
				70.510.3253.0	70.510.4853.0		
70.105.0653.3	70.105.1053.3	70.105.1653.3	70.105.2453.3				
70.100.0653.3	70.100.1053.3	70.100.1653.3	70.100.2453.3				
70.115.0653.3	70.115.1053.3	70.115.1653.3	70.115.2453.3	84.5			
70.110.0653.3	70.110.1053.3	70.110.1653.3	70.110.2453.3				
70.105.0653.4	70.105.1053.4	70.105.1653.4	70.105.2453.4				
70.100.0653.4	70.100.1053.4	70.100.1653.4	70.100.2453.4	5 5			
70.115.0653.4	70.115.1053.4	70.115.1653.4	70.115.2453.4	67.			
70.110.0653.4	70.110.1053.4	70.110.1653.4	70.110.2453.4				
70.106.0653.0	70.106.1053.0	70.106.1653.0	70.106.2453.0				
70.101.0653.0	70.101.1053.0	70.101.1653.0	70.101.2453.0	67.5			
70.116.0653.0	70.116.1053.0	70.116.1653.0	70.116.2453.0	67.			
70.111.0653.0	70.111.1053.0	70.111.1653.0	70.111.2453.0				

Industrial Multipole Connectors Hoods with a single locking lever

revos Basic



Hood type A



Hood type B



Hood type C





Degree of protection IP 55
Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: 600 V UL/CSA For inserts: **500 V** IEC 61 984

Number of poles	Thread	Gland type	Dimensions in mm	L	W	Н :	Std. pack
Size 6 for connector 6pole + ground	M 20	with cable gland with threaded collar with intermediate support with strain relief		60	43	47.5	1
	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		60	43	47.5	1
Size 10 for connector 10pole + ground	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
Size 16 for connector 16pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	1
3	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	1
Size 24 for connector 24pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
pe.e . g.e	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
Size 48 for connector 48pole + ground	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		132	90	107	1
p	M 40	1 with threaded collar 2 with intermediate support		132	90	107	1

l Hood	Llload	Lllood
noou	Hood (not suited for female/male inserts with spring connection)	Hood
	for 24pole = 2 x M 25	
Hood type A	Hood type B	Hood type C
Part no.	Part no.	Part no.
70.350.0635.0 70.350.0635.1 70.350.0635.2 70.350.0635.3	70.351.0635.0 70.351.0635.1 70.351.0635.2 70.351.0635.3	70.352.0635.0 70.352.0635.1 70.352.0635.2 70.352.0635.3
70.353.0635.0 70.353.0635.1 70.353.0635.2 70.353.0635.3		70.354.0635.0 70.354.0635.1 70.354.0635.2 70.354.0635.3
71.350.1035.0 71.350.1035.1 71.350.1035.2 71.350.1035.3	71.351.1035.0 71.351.1035.1 71.351.1035.2 71.351.1035.3	71.352.1035.0 71.352.1035.1 71.352.1035.2 71.352.1035.3
71.353.1035.0 71.353.1035.1 71.353.1035.2 71.353.1035.3		71.354.1035.0 71.354.1035.1 71.354.1035.2 71.354.1035.3
71.350.1635.0 71.350.1635.1 71.350.1635.2 71.350.1635.3	71.351.1635.0 71.351.1635.1 71.351.1635.2 71.351.1635.3	71.352.1635.0 71.352.1635.1 71.352.1635.2 71.352.1635.3
71.353.1635.0 71.353.1635.1 71.353.1635.2 71.353.1635.3		71.354.1635.0 71.354.1635.1 71.354.1635.2 71.354.1635.3
71.350.2435.0 71.350.2435.1 71.350.2435.2 71.350.2435.3	71.351.2435.0 71.351.2435.1 71.351.2435.2 71.351.2435.3	71.352.2435.0 71.352.2435.1 71.352.2435.2 71.352.2435.3
71.353.2435.0 71.353.2435.1 71.353.2435.2 71.353.2435.3		71.354.2435.0 71.354.2435.1 71.354.2435.2 71.354.2435.3
70.350.4835.0 70.350.4835.1 70.350.4835.2 70.350.4835.3		70.352.4835.0 70.352.4835.1 70.352.4835.2 70.352.4835.3
70.353.4835.1 70.353.4835.2		70.354.4835.1 70.354.4835.2

Industrial Multipole Connectors Housings with a single locking lever

revos Basic

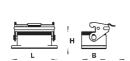


Housing type a

Housing type b

Housing type c

Housing type d





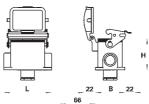








Housing type i



Housing open bottom

Housing type a

Housing closed bottom with two cable glands

Housing type b

Housing closed bottom with one cable gland on

Housing type c



Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: 600 V UL/CSA

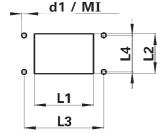
For inserts: **500 V** IEC 61 984







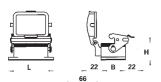
roi inserts. 300	W ILC 0	1 904							
Number of poles	Thread	Gland type	L V	V F	H Std. p	ack	Part no.	Part no.	Part no.
Size 6			80	43	28	1	70.320.0628.0		
for connector	M 20	0 with cable gland	84	52	54.5	1		70.330.0635.0	70.331.0635.0
6pole + ground		1 with threaded collar	84	52	54.5	1		70.330.0635.1	70.331.0635.1
Size 10				43	28	1	71.320.1028.0		
for connector	M 20	0 with cable gland		52	0	1		71.330.1035.0	71.331.1035.0
10pole + ground		1 with threaded collar	94	52	54.5	1		71.330.1035.1	71.331.1035.1
Size 16			113	43	28	1	71.320.1628.0		
for connector	M 25	0 with cable gland	117	52	56.5	1		71.330.1635.0	71.331.1635.0
16pole + ground		1 with threaded collar	117	52	56.5	1		71.330.1635.1	71.331.1635.1
Size 16									
high design								70.004.4005.0	70.005 4005 0
for connector	M 32	0 with cable gland	117		, 0.0	1		76.334.4035.0	76.335.4035.0
16pole + ground		1 with threaded collar	117	52	76.5	1		76.334.4035.1	76.335.4035.1
Size 24			140	43	28	1	71.320.2428.0		
for connector	M 25	0 with cable gland	144	52	56.5	1		71.330.2435.0	71.331.2435.0
24pole + ground		1 with threaded collar	144	52	56.5	1		71.330.2435.1	71.331.2435.1
Size 24									
high design	M 32	0 with cable gland	144	52	76.5	1		76.334.6435.0	76.335.6435.0
for connector,		1 with threaded collar				1		76.334.6435.1	76.335.6435.1
24pole + ground		· · · · · · · · · · · · · · · · · · ·	144	32	70.5	'		70.004.0400.1	70.000.0400.1
Size 48			124	84	35	1	70.320.4828.0		
for connector	M 32	0 with cable gland	146	120	99	1			70.331.4835.0
48pole + ground		1 with threaded collar	146		99	1			70.331.4835.1
15p5.5 . 3.3diid		3 with strain relief	146	120	99	1			70.331.4835.3
	M 40	1 with threaded collar	146	120	99	1			



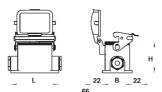
Mounting dimensions for open bottom housings

Housing size	Cut- (m	out im)	Mou	nting s (mm)		
Housing size	L1	L2	L3	L4	d1 (mm)	MI
6	52	35	70	32	4.3	M 4
10	65	35	83	32	4.3	M 4
16	85.5	35	103	32	4.3	M 4
24	112	35	130	32	4.3	M 4
48	117	81	148	70	6.4	M 6

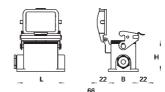
Housing type e



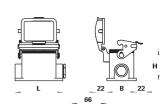
Housing type f



Housing type g



Housing type h



Housing closed bottom with cable gland at the bottom

Housing type d



Housing open bottom with protective cover

Housing closed bottom with two cable glands and protective cover

Housing type f



Housing closed bottom with cable gland on the left and protective cover

Housing type g



Housing closed bottom with cable gland on the right and protective cover

Housing type h



Housing closed bottom with cable gland at the bottom and protective cover

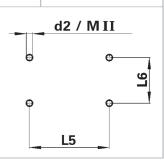
Housing type i



		Co. Co.	N. S.		
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.333.0635.0	70.325.0628.0	70.340.0635.0	70.341.0635.0	70.342.0635.0	70.343.0635.0
70.333.0635.1		70.340.0635.1	70.341.0635.1	70.342.0635.1	70.343.0635.1
71.333.1035.0	71.325.1028.0	71.340.1035.0	71.341.1035.0	71.342.1035.0	71.343.1035.0
71.333.1035.1		71.340.1035.1	71.341.1035.1	71.342.1035.1	71.343.1035.1
71.333.1635.0	71.325.1628.0	71.340.1635.0	71.341.1635.0	71.342.1635.0	71.343.1635.0
71.333.1635.1		71.340.1635.1	71.341.1635.1	71.342.1635.1	71.343.1635.1
76.337.4035.0		76.344.4035.0	76.345.4035.0	76.346.4035.0	76.347.4035.0
76.337.4035.1		76.344.4035.1	76.345.4035.1	76.346.4035.1	76.347.4035.1
71.333.2435.0	71.325.2428.0	71.340.2435.0	71.341.2435.0	71.342.2435.0	71.343.2435.0
71.333.2435.1		71.340.2435.1	71.341.2435.1	71.342.2435.1	71.343.2435.1
76.337.6435.0		76.344.6435.0	76.345.6435.0	76.346.6435.0	76.347.6435.0
76.337.6435.1		76.344.6435.1	76.345.6435.1	76.346.6435.1	76.347.6435.1
	70.325.4828.0		70.341.4835.1 70.341.4835.3		
			70.344.4835.1		

Housing size	L5 (mm)	L6 (mm)	d2 (mm)	MII
6	70	40	5.5	M 5
10	82	40	5.5	M 5
16	105	45	5.5	M 5
24	132	45	5.5	M 5
48	111	106	6.5	M 6

Mounting dimensions for closed-bottom housings



Industrial Multipole Connectors Hoods with double locking levers

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Hood type A

Hood type B

Hood type C













Degree of protection IP 55

Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: **600 V** UL/CSA
For inserts: **500 V** IEC 61 984

lumber of poles	Thread	Gland type	Dimensions in mm	L	W	Н	Std. pacl
Size 10 for connector	M 20	with cable gland with threaded collar with intermediate support with strain relief		73	43	53	1
10pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
Size 16 for connector 16pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	1
Topole + ground	M 32	with cable gland with threaded collar with intermediate support with strain relief		93.5	43	60	1
ize 24 or connector 24pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	,
24pole + ground	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
Size 32 for connector 32pole + ground	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	82.5	94	,
ozpole + ground	M 40	with threaded collar with intermediate support		93.5	82.5	94	

70.353.3235.1 70.353.3235.2

Hood type D

Hood type E

Hood type F













	_20 _ L	_20в	20 _ L _ 20		_20B
Hood	Hood (not suited for female/male inserts with spring connection) for 24pole = 2 x M 25	Hood	Hood with locking levers	Hood with locking levers (not suited for female/male inserts with spring connection) for 24pole = 2 x M 25	Hood with locking levers
Hood type A	Hood type B	Hood type C	Hood type D	Hood type E	Hood type F
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.350.1035.0 70.350.1035.1 70.350.1035.2 70.350.1035.3	70.351.1035.0 70.351.1035.1 70.351.1035.2 70.351.1035.3	70.352.1035.0 70.352.1035.1 70.352.1035.2 70.352.1035.3	70.355.1035.0 70.355.1035.1 70.355.1035.2 70.355.1035.3	70.356.1035.0 70.356.1035.1 70.356.1035.2 70.356.1035.3	70.357.1035.0 70.357.1035.1 70.357.1035.2 70.357.1035.3
70.353.1035.0 70.353.1035.1 70.353.1035.2 70.353.1035.3		70.354.1035.0 70.354.1035.1 70.354.1035.2 70.354.1035.3	70.358.1035.0 70.358.1035.1 70.358.1035.2 70.358.1035.3		70.359.1035.0 70.359.1035.1 70.359.1035.2 70.359.1035.3
70.350.1635.0 70.350.1635.1 70.350.1635.2 70.350.1635.3	70.351.1635.0 70.351.1635.1 70.351.1635.2 70.351.1635.3	70.352.1635.0 70.352.1635.1 70.352.1635.2 70.352.1635.3	70.355.1635.0 70.355.1635.1 70.355.1635.2 70.355.1635.3	70.356.1635.0 70.356.1635.1 70.356.1635.2 70.356.1635.3	70.357.1635.0 70.357.1635.1 70.357.1635.2 70.357.1635.3
70.353.1635.0 70.353.1635.1 70.353.1635.2 70.353.1635.3		70.354.1635.0 70.354.1635.1 70.354.1635.2 70.354.1635.3	70.358.1635.0 70.358.1635.1 70.358.1635.2 70.358.1635.3		70.359.1635.0 70.359.1635.1 70.359.1635.2 70.359.1635.3
70.350.2435.0 70.350.2435.1 70.350.2435.2 70.350.2435.3	70.351.2435.0 70.351.2435.1 70.351.2435.2 70.351.2435.3	70.352.2435.0 70.352.2435.1 70.352.2435.2 70.352.2435.3	70.355.2435.0 70.355.2435.1 70.355.2435.2 70.355.2435.3	70.356.2435.0 70.356.2435.1 70.356.2435.2 70.356.2435.3	70.357.2435.0 70.357.2435.1 70.357.2435.2 70.357.2435.3
70.353.2435.0 70.353.2435.1 70.353.2435.2 70.353.2435.2		70.354.2435.0 70.354.2435.1 70.354.2435.2 70.354.2435.3	70.358.2435.0 70.358.2435.1 70.358.2435.2 70.358.2435.3		70.359.2435.0 70.359.2435.1 70.359.2435.2 70.359.2435.3
70.350.3235.0 70.350.3235.1 70.350.3235.2 70.350.3235.3		70.352.3235.0 70.352.3235.1 70.352.3235.2 70.352.3235.3			

70.354.3235.1 70.354.3235.2

Industrial Multipole Connectors Housings with double locking levers

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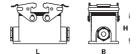
Housing type a

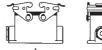
Housing type b

Housing type c

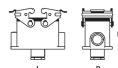
Housing type d



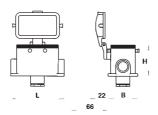








Housing type i



Housing open bottom

Housing type a

Housing closed bottom with two cable glands

Housing type b

Housing closed bottom with one cable gland on the left

Housing type c



Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: **600 V** UL/CSA For inserts: **500 V** IEC 61 984

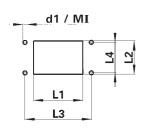






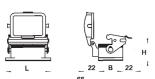
Number of poles	Thread	Gland type	L	W F	H Std. pack	Part no.	Part no.	Part no.
Size 10			93	43	28 1	70.320.1028.0		
for connector	M 20	0 with cable gland	94	52	54.5 1		70.330.1035.0	70.331.1035.0
10pole + ground		1 with threaded collar	94	52	54.5 1		70.330.1035.1	70.331.1035.1
Size 16			113	43	28 1	70.320.1628.0		
for connector	M 25	0 with cable gland	117	52	56.5 1		70.330.1635.0	70.331.1635.0
16pole + ground		1 with threaded collar	117	52	56.5 1		70.330.1635.1	70.331.1635.1
Size 16 for connector	h 4 00	0 11 11 1	447		70.5.4		70.004.4005.0	70.005.4005.0
high design	M 32	0 with cable gland	117		76.5 1		73.334.4035.0	73.335.4035.0
16pole + ground		1 with threaded collar	117	52	76.5 1		73.334.4035.1	73.335.4035.1
Size 24			140	43	28 1	70.320.2428.0		
for connector	M 25	0 with cable gland	144	52	56.5 1		70.330.2435.0	70.331.2435.0
24pole + ground		1 with threaded collar	144	52	56.5 1		70.330.2435.1	70.331.2435.1
Size 24								
for connector	M 32	0 with cable gland	144	52	76.5 1		73.334.6435.0	73.335.6435.0
high design 24pole + ground		1 with threaded collar	144	52	76.5 1		73.334.6435.1	73.335.6435.1
Size 32 for connector			124	84	35 1	70.320.3228.0		
32pole + ground								

Mounting dimensions for open-bottom housings

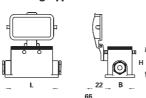


Housing	Cut- (m	out im)	Mounting holes (mm)			
size	L1	L2	L3	L4	d1 (mm)	MI
10	65	35	83	32	4.3	M 4
16	85.5	35	103	32	4.3	M 4
24	112	35	130	32	4.3	M 4
32	117	81	148	70	6.4	M 6

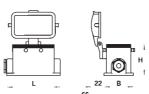




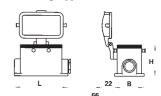
Housing type f



Housing type g



Housing type h



Housing closed bottom with cable gland at the bottom

Housing type d

Housing open bottom with protective cover

Housing type e

Housing closed bottom with two cable glands and protective cover

Housing type f



Housing type g



Housing closed bottom with cable gland at the bottom and protective

cover









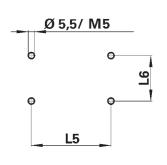




	R. W.				
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
	70.325.1028.0				
70.333.1035.0		70.340.1035.0	70.341.1035.0	70.342.1035.0	70.343.1035.0
70.333.1035.1		70.340.1035.1	70.341.1035.1	70.342.1035.1	70.343.1035.1
	70.325.1628.0				
70.333.1635.0		70.340.1635.0	70.341.1635.0	70.342.1635.0	70.343.1635.0
70.333.1635.1		70.340.1635.1	70.341.1635.1	70.342.1635.1	70.343.1635.1
73.337.4035.0		73.344.4035.0	73.345.4035.0	73.346.4035.0	73.347.4035.0
73.337.4035.0 73.337.4035.1		73.344.4035.1	73.345.4035.1	73.346.4035.1	73.347.4035.1
70.007.1000.1		70.011.1000.1	70.010.1000.1	70.0 10.1000.1	70.017.1000.1
	70.325.2428.0				
70.333.2435.0		70.340.2435.0	70.341.2435.0	70.342.2435.0	70.343.2435.0
70.333.2435.1		70.340.2435.1	70.341.2435.1	70.342.2435.1	70.343.2435.1
73.337.6435.0		73.344.6435.0	73.345.6435.0	73.346.6435.0	73.347.6435.0
73.337.6435.1		73.344.6435.1	73.345.6435.1	73.346.6435.1	73.347.6435.1
			. ,		

Mounting dimensions for closed-bottom housings

Housing size	L5 (mm)	L6 (mm)
10	82	40
16	105	45
24	132	45
24	132	45



Industrial multipole connectors

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Technical information

- Approvals
- Applicable standards
- Contact inserts

Rated current Rated voltage

Nominal voltage accord. to UL Nominal voltage accord. to CSA Pole configurations

Screw connection Degree of pollution Temperature range

■ Multipole adapter

Rated current Rated voltage

Nominal voltage accord. to UL Nominal voltage accord. to CSA

Pole configurations Screw connection Degree of pollution Temperature range

■ Contacts

Material Surface

Hoods and housings

Material Surface Locking levers Gaskets

Temperature range Degree of protection accord. to DIN EN 60 529 with latched locking levers with appropriate cable gland UL, CSA, MEEI, SEV IEC 61 984

16 A 690/400 V 600 V 600 V 3, 6, 10, 16, 20 (2x10), 26 (10/16), 32 (2x16) + ground 0.5 - 2.5 mm² / 20 - 12 AWG 3

16 A 500 V 600 V 600 V

-40 to +110 °C

3, 6, 10 + ground 0.5 - 4.0 mm² / 20 - 12 AWG

3

-40 to +110 °C

copper alloy tin-plated

die cast aluminum alloy silver gray, silicon-free finish zinc-plated steel

NBR

-40 to +110 °C

IP 55 IP 65



Industrial Multipole Connectors Female/male inserts and multipole adapter

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690/400 V, 16 A IEC 61 984

		Rate	d current	Cross section	Approvals	Wire strip length	Contacts	Std. pack
	Screw connection	Female insert	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	⊕ © LR	7 mm	tin-plated	10
Tosses	Screw connection	Male insert	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	⊕® #€	7 mm	tin-plated	10
	Screw connection	Female insert, ground right 500 V IEC 61 984 Female insert, ground left	16 A 16 A	0,5 – 4 mm ² 20 – 12 AWG 0.5 – 4 mm ²	⊕®#© ⊕®#©	12 mm 12 mm	tin-plated	10
	Multipole adapter long design (6 marking fields)	Male insert, ground right 500 V IEC 61 984 Male insert, ground left	16 A	20 – 12 AWG 0.5 – 4 mm ² 20 – 12 AWG 0.5 – 4 mm ²	⊕ ® # ②	12 mm	tin-plated	10
		Female insert, ground right	16 A	20 – 12 AWG 0.5 – 4 mm ²	\$7 1 @⊕	12 mm	tin-plated tin-plated	10
	Screw connection Multipole adapter	500 V IEC 61 984 Female insert, ground left	16 A	20 – 12 AWG 0.5 – 4 mm ² 20 – 12 AWG	⊕	12 mm	tin-plated	10
	short design (4 marking fields)	Male insert, ground right 500 V IEC 61 984	16 A	0.5 – 4 mm ² 20 – 12 AWG	⊕® #€	12 mm	tin-plated	10
SERVE S	-	Male insert, ground left	16 A	0.5 – 4 mm ² 20 – 12 AWG	⊕® #€	12 mm	tin-plated	10
		Female insert, ground right 500 V IEC 61 984	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	91. @	9 mm	tin-plated	10
VALUE OF THE PROPERTY OF THE P	Spring connection Multipole adapter	Female insert, ground left	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	916	9 mm	tin-plated	10
	short design (6 marking fields)	Male insert, ground right 500 V IEC 61 984	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	91. 6	9 mm	tin-plated	10
		Male insert, ground left	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	71 (1)	9 mm	tin-plated	10

3pole + ground	6pole + ground	10pole + ground	16pole + ground	20pole + ground 2 x 10pole + ground	26pole + ground 1 x 10pole + ground 1 x 16pole + ground	32pole + ground 2 x 16pole + ground
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.400.0340.0	70.400.0640.0	70.400.1040.0	70.400.1640.0	70.400.2040.0	70.400.2640.0	70.400.3240.0
70.410.0340.0	70.410.0640.0	70.410.1040.0	70.410.1640.0	70.410.2040.0	70.410.2640.0	70.410.3240.0
Pole assignment 3pole + ground	Pole assignment 6pole + ground	Pole assignment 10pole + ground	Pole assignment 16pole + ground	Pole assignment 20pole + ground	Pole assignment 26pole + ground	Pole assignment 32pole + ground
			2			1
X = switching cont	acts (2 shortened male pi	ns)				
70.125.0353.3	70.125.0653.3	70.125.1053.3	[]	<u> </u>		
70.120.0353.3	70.120.0653.3	70.120.1053.3				
70.135.0353.3	70.135.0653.3	70.135.1053.3		100		
70.130.0353.3	70.130.0653.3	70.130.1053.3				
70.125.0353.4	70.125.0653.4	70.125.1053.4				
70.120.0353.4	70.120.0653.4	70.120.1053.4		67.5 3.5		
70.135.0353.4	70.135.0653.4	70.135.1053.4		83.5		
70.130.0353.4	70.130.0653.4	70.130.1053.4				
70.126.0353.0	70.126.0653.0	70.126.1053.0				
70.121.0353.0	70.121.0653.0	70.121.1053.0		3.5		
70.136.0353.0	70.136.0653.0	70.136.1053.0		9 83		
70.131.0353.0	70.131.0653.0	70.131.1053.0				

Industrial Multipole Connectors Hoods with a single locking lever

revos Basic



Hood type A

Hood type B

Hood type C













Degree of protection IP 55

Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: 600 V UL/CSA

For inserts: **690/400 V** IEC 61 984

Number of poles	Thread	Gland type	Dimensions in mm	L	W	H S	td. pack
Size 10 for connector	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
3pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	
Size 16 for connector 6pole + ground	M 25	with cable gland with threaded collar with intermediate support with strain relief		93.5	43	60	1
opole i ground	M 32	with cable gland with threaded collar with intermediate support with strain relief		93.5	43	60	
Size 24 for connector	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
16pole + ground	M 32	with cable gland with threaded collar with intermediate support with strain relief		120	43	70	
Size 48 for connector 20-/26-/	M 32	with cable gland with threaded collar with intermediate support with strain relief		132	90	107	1
32pole + ground	M 40	1 with threaded collar 2 with intermediate support		132	90	107	1

Hood	Hood	Hood	
	for 24pole = 2 x M 25		
Hood type A	Hood type B	Hood type C	
	000	Meland	
Part no.	Part no.	Part no.	
77.350.1035.0 77.350.1035.1 77.350.1035.2 77.350.1035.3	77.351.1035.0 77.351.1035.1 77.351.1035.2 77.351.1035.3	77.352.1035.0 77.352.1035.1 77.352.1035.2 77.352.1035.3	
77.353.1035.0 77.353.1035.1 77.353.1035.2 77.353.1035.3		77.354.1035.0 77.354.1035.1 77.354.1035.2 77.354.1035.3	
77.350.1635.0 77.350.1635.1 77.350.1635.2 77.350.1635.3	77.351.1635.0 77.351.1635.1 77.351.1635.2 77.351.1635.3	77.352.1635.0 77.352.1635.1 77.352.1635.2 77.352.1635.3	
77.353.1635.0 77.353.1635.1 77.353.1635.2 77.353.1635.3		77.354.1635.0 77.354.1635.1 77.354.1635.2 77.354.1635.3	
77.350.2435.0 77.350.2435.1 77.350.2435.2 77.350.2435.2	77.351.2435.0 77.351.2435.1 77.351.2435.2 77.351.2435.3	77.352.2435.0 77.352.2435.1 77.352.2435.2 77.352.2435.2	
77.353.2435.0 77.353.2435.1 77.353.2435.2 77.353.2435.2 77.353.2435.3		77.354.2435.0 77.354.2435.1 77.354.2435.2 77.354.2435.3	
70.350.4835.0 70.350.4835.1 70.350.4835.2 70.350.4835.3		70.352.4835.0 70.352.4835.1 70.352.4835.2 70.352.4835.3	
70.353.4835.1 70.353.4835.2		70.354.4835.1 70.354.4835.2	
	1	1	645

Industrial Multipole Connectors Housings with a single locking lever

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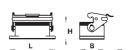


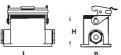
Housing type a

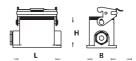
Housing type b

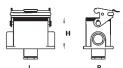
Housing type c

Housing type d

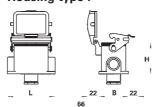












Housing closed bottom with two cable glands

Housing type b



Housing type c

Degree of protection IP 55

Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: 600 V UL/CSA

For inserts: **690/400 V** IEC 61 984



Housing open bottom

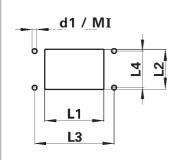
Housing type a





Number of poles	Thread	Gland type	L	W	H Std. p	pack	Part no.	Part no.	Part no.
Size 10 for connector 3pole + ground	M 20	0 with cable gland 1 with threaded collar	93 94 94	43 52 52	28 54.5 54.5		77.320.1028.0	77.330.1035.0 77.330.1035.1	77.331.1035.0 77.331.1035.1
Size 16 for connector 6pole + ground	M 25	with cable gland with threaded collar	113 117 117	43 52 52	28 56.5 56.5		77.320.1628.0	77.330.1635.0 77.330.1635.1	77.331.1635.0 77.331.1635.1
Size 24 for connector 10pole + ground/ 16pole + ground	M 25	0 with cable gland 1 with threaded collar	140 144 144	43 52 52	28 56.5 56.5		77.320.2428.0	77.330.2435.0 77.330.2435.1	77.331.2435.0 77.331.2435.1
Size 48 for connector 20-/26-/ 32pole + ground	M32	0 with cable gland 1 with threaded collar 3 with strain relief	165 146 146 146		44 99 99 99	1 1 1	70.320.4828.0		70.331.4835.0 70.331.4835.1 70.331.4835.3
ozpole r glouliu	M40	1 with threaded collar	146	120	99	1			

Mounting dimensions for open-bottom housings

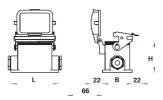


Housing		-out nm)	Moun holes			
size	L1	L2	L3	L4	d1 (mm)	MI
10	65	35	83	32	4.3	M 4
16	85.5	35	103	32	4.3	M 4
24	112	35	130	32	4.3	M 4
48	117	81	148	70	6.4	M 6

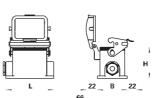
Housing type e



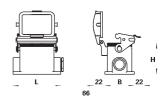
Housing type f



Housing type g



Housing type h



Housing closed bottom with cable gland at the

Housing type d



Housing type e



Housing type f





Housing closed bottom with cable gland at the bottom and protective cover

Housing type i













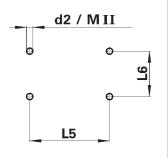




			N. A.	100	
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
	77.325.1028.0				
77.333.1035.0		77.340.1035.0	77.341.1035.0	77.342.1035.0	77.343.1035.0
77.333.1035.1		77.340.1035.1	77.341.1035.1	77.342.1035.1	77.343.1035.1
	77.325.1628.0				
77.333.1635.0		77.340.1635.0	77.341.1635.0	77.342.1635.0	77.343.1635.0
77.333.1635.1		77.340.1635.1	77.341.1635.1	77.342.1635.1	77.343.1635.1
	77.325.2428.0				
77.333.2435.0		77.340.2435.0	77.341.2435.0	77.342.2435.0	77.343.2435.0
77.333.2435.1		77.340.2435.1	77.341.2435.1	77.342.2435.1	77.343.2435.1
	70.325.4828.0				
			70.341.4835.1 70.341.4835.3		
			70.344.4835.1		

Mounting dimensions for closed-bottom housings

Housing size	L5 (mm)	L6 (mm)	d2 (mm)	MII
10	82	40	5.5	M 5
16	105	45	5.5	M 5
24	132	45	5.5	M 5
48	111	106	6.5	M 6



Industrial Multipole Connectors Hoods with double locking levers

revos BASIC



Hood type A

Hood type C







Hood type B







Degree of protection IP 55

Degree of protection IP 65 with matching cable glands

For inserts: 600 V UL/CSA

For inserts: **690/400 V** IEC 61 984

Number of poles	Thread	Gland type	Dimensions in mm	L	W	Н	Std. pack
Size 10 for connector 3pole + ground	M 20	0 with cable gland1 with threaded collar2 with intermediate support3 with strain relief		73	43	53	1
opolo i giodila	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	
Size 16 for connector 6pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	1
opole + ground	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	
Size 24 for connector	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
16pole + ground	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1

72.359.2435.0 72.359.2435.1 72.359.2435.2 72.359.2435.3

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72.353.2435.0 72.353.2435.1 72.353.2435.2 72.353.2435.3

Hood type D



Hood type F













Hood	Hood for 24pole = 2 x M 25	Hood	Hood with locking levers	Hood with locking levers for 24pole = 2 x M 25	Hood with locking levers
Hood type A	Hood type B	Hood type C	Hood type D	Hood type E	Hood type F
Part no.					
72.350.1035.0 72.350.1035.1 72.350.1035.2 72.350.1035.3	72.351.1035.0 72.351.1035.1 72.351.1035.2 72.351.1035.3	72.352.1035.0 72.352.1035.1 72.352.1035.2 72.352.1035.3	72.355.1035.0 72.355.1035.1 72.355.1035.2 72.355.1035.3	72.356.1035.0 72.356.1035.1 72.356.1035.2 72.356.1035.3	72.357.1035.0 72.357.1035.1 72.357.1035.2 72.357.1035.3
72.353.1035.0 72.353.1035.1 72.353.1035.2 72.353.1035.3		72.354.1035.0 72.354.1035.1 72.354.1035.2 72.354.1035.3	72.358.1035.0 72.358.1035.1 72.358.1035.2 72.358.1035.3		72.359.1035.0 72.359.1035.1 72.359.1035.2 72.359.1035.3
72.350.1635.0 72.350.1635.1 72.350.1635.2 72.350.1635.3	72.351.1635.0 72.351.1635.1 72.351.1635.2 72.351.1635.3	72.352.1635.0 72.352.1635.1 72.352.1635.2 72.352.1635.3	72.355.1635.0 72.355.1635.1 72.355.1635.2 72.355.1635.3	72.356.1635.0 72.356.1635.1 72.356.1635.2 72.356.1635.3	72.357.1635.0 72.357.1635.1 72.357.1635.2 72.357.1635.3
72.353.1635.0 72.353.1635.1 72.353.1635.2 72.353.1635.3		72.354.1635.0 72.354.1635.1 72.354.1635.2 72.354.1635.3	72.358.1635.0 72.358.1635.1 72.358.1635.2 72.358.1635.3		72.359.1635.0 72.359.1635.1 72.359.1635.2 72.359.1635.3
72.350.2435.0 72.350.2435.1 72.350.2435.2 72.350.2435.2	72.351.2435.0 72.351.2435.1 72.351.2435.2 72.351.2435.3	72.352.2435.0 72.352.2435.1 72.352.2435.2 72.352.2435.2	72.355.2435.0 72.355.2435.1 72.355.2435.2 72.355.2435.3	72.356.2435.0 72.356.2435.1 72.356.2435.2 72.356.2435.2	72.357.2435.0 72.357.2435.1 72.357.2435.2 72.357.2435.3

72.358.2435.0 72.358.2435.1 72.358.2435.2 72.358.2435.3

72.354.2435.0 72.354.2435.1 72.354.2435.2 72.354.2435.3

Industrial Multipole Connectors Housings with double locking levers

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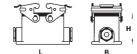
Hood type a

Hood type b

Hood type c

Hood type d



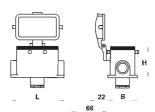






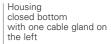






Housing open bottom Housing closed bottom with two cable glands

Housing type b



Housing type c

Degree of protection IP 55

Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: 600 V UL/CSA

For inserts: **690/400 V** IEC 61 984



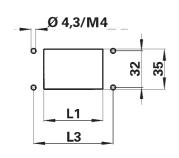
Housing type a



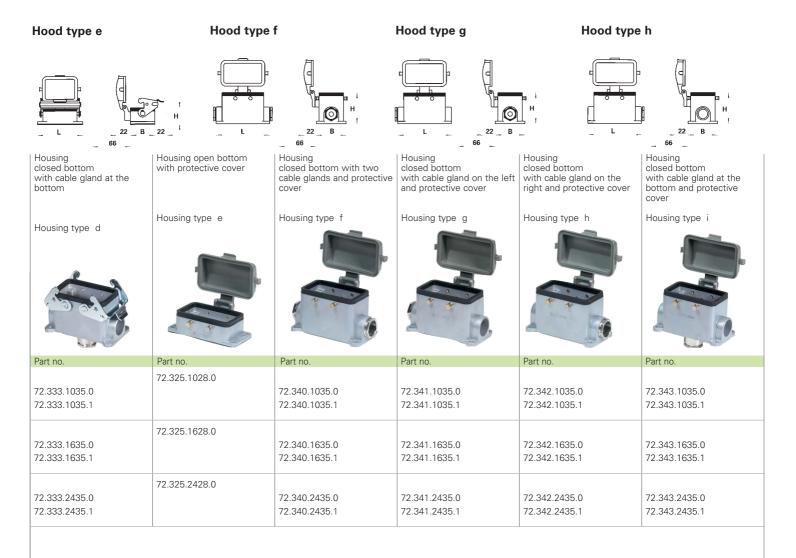


Number of poles	Thread	Gland type	L W H Std.	pack	Part no.	Part no.	Part no.
Size 10		/	93 43 28	1	72.320.1028.0		
for connector	M 20	0 with cable gland	94 52 54.5	1		72.330.1035.0	72.331.1035.0
3pole + ground		1 with threaded collar	94 52 54.5	1		72.330.1035.1	72.331.1035.1
Size 16			113 43 28	1	72.320.1628.0		
for connector	M 25	0 with cable gland	117 52 56.5	1		72.330.1635.0	72.331.1635.0
6pole + ground		1 with threaded collar	117 52 56.5	1		72.330.1635.1	72.331.1635.1
Size 24			140 43 28	1	72.320.2428.0		
for connector	M 25	0 with cable gland	144 52 56.5	1		72.330.2435.0	72.331.2435.0
10-/ 16pole + ground		1 with threaded collar	144 52 56.5	1		72.330.2435.1	72.331.2435.1

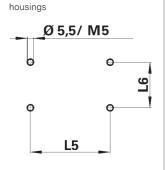
Mounting dimensions for open-bottom housings



Housing size	L1 (mm)	L3 (mm)
10	65	83
16	85.5	103
24	112	130



Housing size	L5 (mm)	L6 (mm
10	82	40
16	105	45
24	132	45



Mounting dimensions for closed-bottom

Industrial multipole connectors

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Technical information

- Approvals
- Applicable standards
- Contact inserts

Rated current Rated voltage

Nominal voltage accord. to UL Nominal voltage accord. to CSA

Pole configurations

Screw connection Crimp connection Degree of pollution Temperature range

■ Multipole adapter

Rated current Rated voltage

Nominal voltage accord. to UL Nominal voltage accord. to CSA

Pole configurations Screw connection Spring connection Degree of pollution Temperature range

Contacts

Material Surface (screw, crimp, multipole adapter contacts) Surface (crimp contacts) Surface (crimp contacts)

■ Hoods and housings

Material
Surface
Locking levers
Gaskets
Temperature range
Degree of protection
accord. to DIN EN 60 529
with latched locking levers
with appropriate cable gland

UL, CSA, MEEI, SEV IEC 61 984

16 A 690 V 600 V 600 V 6-, 10-, 16-, 24-, 32 (2x16), 48 (2x24), + ground 0.5 - 2.5 mm² / 20 - 12 AWG 0.5 - 4.0 mm² / 20 - 12 AWG 3 -40 to +110 °C

16 A 500 V 600 V 600 V 6, 10, 16, 24, + ground 0.5 – 4.0 mm² / 20 – 12 AWG 0.5 – 2.5 mm² / 20 – 12 AWG 3 -40 to +110 °C

copper alloy

tin-plated gold-plated silver-plated

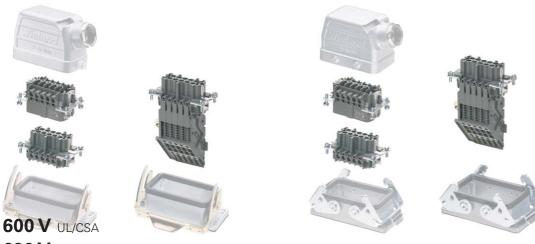
die cast aluminum alloy silver gray, silicon-free finish zinc-plated steel NBR -40 to +110 °C

IP 55 IP 65



Industrial Multipole Connectors Female/male inserts and multipole adapter

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690 V, 16 A IEC 61 984

			Rated current	Cross section	Approvals	Wire strip length	Contacts	Std. pack
Street P	Screw connection	Female insert	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	⊕@!	7 mm	tin-plated	10
	Sciew connection	Male insert	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	⊕® #€	7 mm	tin-plated	10
THE PARTY NAMED IN		Female insert without crimp contacts	16 A	0.5 – 4 mm ² 20 – 12 AWG	\$ @	7 mm	tin-plated	10
	Crimp connection	Male insert without crimp contacts	16 A	0.5 – 4 mm ² 20 – 12 AWG	£ 1	7 mm	tin-plated	10
Actes a		Female insert, ground right	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG	\$⊕	12 mm	tin-plated	10
THE PARTY OF THE P	Screw connection Multipole adapter	Female insert, ground left	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG	\$⊕	12 mm	tin-plated	10
IIII \	long design (6 marking fields)	Male insert, ground right	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG	\$⊕	12 mm	tin-plated	10
	(o manung notae,	Male insert, ground left	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG	\$•	12 mm	tin-plated	10
e ditto		Female insert, ground right	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG	\$0⊕	12 mm	tin-plated	10
Villana 24	Screw connection Multipole adapter	Female insert, ground left	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG	\$0⊕	12 mm	tin-plated	10
	short design (4 marking fields)	Male insert, ground right	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG	\$⊕	12 mm	tin-plated	10
1988	(+ marking nerus)	Male insert, ground left	16 A/500 V	0.5 – 4 mm ² 20 – 12 AWG	\$⊕	12 mm	tin-plated	10
The state of the s		Female insert, ground right	16 A/500 V	0.5 – 2.5 mm ² 20 – 12 AWG	® <i>LR</i>	9 mm	tin-plated	10
VIII TO	Spring connection Multipole adapter	Female insert, ground left	16 A/500 V	0.5 – 2.5 mm ² 20 – 12 AWG	@ <i>LR</i>	9 mm	tin-plated	10
all l	short design (6 marking fields)	Male insert, ground right	16 A/500 V	0.5 – 2.5 mm ² 20 – 12 AWG	91/9	9 mm	tin-plated	10
	(o marking neids)	Male insert, ground left	16 A/500 V	0.5 – 2.5 mm ² 20 – 12 AWG	91/ ®	9 mm	tin-plated	10

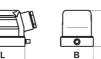
Contac	cts for crimp version	Cross section mm ²	Part no. Std. pack	Cross section mm ²	art no. Std. pack
Female	contacts	0.5 20 AWC 0.75 – 1 18 AWC 1.5 16 AWC 2.5 14 AWC 4 12 AWC	G 02.123.7121.0 200 G 02.123.7221.0 200 G 02.123.7321.0 200	Male switching contact (2 pcs. required)	
Male co gold-plat upon rec	ed and silver-plated	0.5 20 AWC 0.75 – 1 18 AWC 1.5 16 AWC 2.5 14 AWC 4 12 AWC	G 05.543.7121.0 200 G 05.543.7221.0 200 G 05.543.7321.0 200	0.75 – 1 18 AWG 0 1.5 16 AWG 0 2.5 14 AWG 0	15.543.9021.0 200 15.543.9121.0 200 15.543.9221.0 200 15.543.9321.0 200 15.543.9421.0 200
Crimping Crimping Contact Extractio	die "B" positioner "3"		95.101.0800.0 1 05.502.2100.0 1 05.502.3300.0 1 05.502.3500.0		
6pole + ground	10pole + ground	16pole + ground	24pole + ground	32pole + ground	48pole + ground
				2 inserts 1 – 16 poles 17 – 32 poles	2 inserts 1 – 24 poles 25 – 48 poles
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
72.300.0653.0	72.300.1053.0	72.300.1653.0	72.300.2453.0	72.300.3253.0	72.300.4853.0
72.310.0653.0	72.310.1053.0	72.310.1653.0	72.310.2453.0	72.310.3253.0	72.310.4853.0
72.700.0658.0	72.700.1058.0	72.700.1658.0	72.700.2458.0	72.700.3258.0	72.700.4858.0
72.710.0658.0	72.710.1058.0	72.710.1658.0	72.710.2458.0	72.710.3258.0	72.710.4858.0
Pole assignment 6pole + ground	Pole assignment 10pole + ground	Pole assignment 16pole + ground Solution Solution		X = switching contacts (2 s 32pole: additional switchin 48pole: additional switchin signment + ground	g contacts 17 + 32
72.105.0653.0	72.105.1053.0	72.105.1653.0	72.105.2453.0		
72.100.0653.0	72.100.1053.0	72.100.1653.0	72.100.2453.0	84.5	
72.115.0653.0	72.115.1053.0	72.115.1653.0	72.115.2453.0		
72.110.0653.0	72.110.1053.0	72.110.1653.0	72.110.2453.0		
72.105.0653.4	72.105.1053.4	72.105.1653.4	72.105.2453.4		
72.100.0653.4	72.100.1053.4	72.100.1653.4	72.100.2453.4	7.5	
72.115.0653.4	72.115.1053.4	72.115.1653.4	72.115.2453.4	67.7	
72.110.0653.4	72.110.1053.4	72.110.1653.4	72.110.2453.4		
72.106.0653.0	72.106.1053.0	72.106.1653.0	72.106.2453.0		
72.101.0653.0	72.101.1053.0	72.101.1653.0	72.101.2453.0	67.5	
72.116.0653.0	72.116.1053.0	72.116.1653.0	72.116.2453.0	67.	
72.111.0653.0	72.111.1053.0	72.111.1653.0	72.111.2453.0		

Industrial Multipole Connectors Hoods with a single locking lever

revos Basic



Hood type A



Hood type B



Hood type C





Degree of protection IP 55

Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: **600 V** UL/CSA

Number of poles	Thread	Gland type	Dimensions in mm	L	W	Н	Std. pack
Size 6 for connector	M 20	0 with cable gland1 with threaded collar2 with intermediate support3 with strain relief		60	43	47.5	1
6pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		60	43	47.5	
Size 10 for connector 10pole + ground	M 20	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	1
Topole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	
Size 16 for connector	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93,5	43	60	1
16pole + ground	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93,5	43	60	
Size 24 for connector 24pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
24pole + ground	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	
Size 48 for connector 48pole + ground	M32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		132	90	107	1
Topole T ground	M40	1 with threaded collar 2 with intermediate support		132	90	107	1

Hood	Hood	Hood	
	for 24pole = 2 x M 25		
Hood type A	Hood type B	Hood type C	
		Misiano	
Part no.	Part no.	Part no.	
72.350.0635.0 72.350.0635.1 72.350.0635.2 72.350.0635.3	72.351.0635.0 72.351.0635.1 72.351.0635.2 72.351.0635.3	72.352.0635.0 72.352.0635.1 72.352.0635.2 72.352.0635.3	
72.353.0635.0 72.353.0635.1 72.353.0635.2 72.353.0635.3		72.354.0635.0 72.354.0635.1 72.354.0635.2 72.354.0635.3	
77.350.1035.0 77.350.1035.1 77.350.1035.2 77.350.1035.3	77.351.1035.0 77.351.1035.1 77.351.1035.2 77.351.1035.3	77.352.1035.0 77.352.1035.1 77.352.1035.2 77.352.1035.3	
77.353.1035.0 77.353.1035.1 77.353.1035.2 77.353.1035.3		77.354.1035.0 77.354.1035.1 77.354.1035.2 77.354.1035.3	
77.350.1635.0 77.350.1635.1 77.350.1635.2 77.350.1635.3	77.351.1635.0 77.351.1635.1 77.351.1635.2 77.351.1635.3	77.352.1635.0 77.352.1635.1 77.352.1635.2 77.352.1635.3	
77.353.1635.0 77.353.1635.1 77.353.1635.2 77.353.1635.3		77.354.1635.0 77.354.1635.1 77.354.1635.2 77.354.1635.3	
77.350.2435.0 77.350.2435.1 77.350.2435.2 77.350.2435.3	77.351.2435.0 77.351.2435.1 77.351.2435.2 77.351.2435.3	77.352.2435.0 77.352.2435.1 77.352.2435.2 77.352.2435.3	
77.353.2435.0 77.353.2435.1 77.353.2435.2 77.353.2435.3		77.354.2435.0 77.354.2435.1 77.354.2435.2 77.354.2435.3	
70.350.4835.0 70.350.4835.1 70.350.4835.2 70.350.4835.3		70.352.4835.0 70.352.4835.1 70.352.4835.2 70.352.4835.3	
70.353.4835.1 70.353.4835.2		70.354.4835.1 70.354.4835.2	

Industrial Multipole Connectors Housings with a single locking lever

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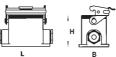
Housing type a

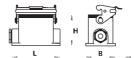
Housing type b

Housing type c

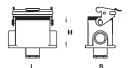
Housing type d



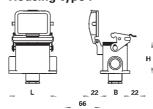




Housing closed bottom with two cable glands







Housing open bottom

Housing type a Housin

Housing closed bottom with one cable gland on the left

Housing type b Housing type c



Degree of protection IP 65 with matching cable glands

For inserts: **600 V** UL/CSA For inserts: **690 V** IEC 61 984

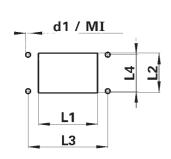






Ni walan af walan	Therese		1 \\\/ 11	C+-l	l. Dant an	Don't an	Don't in a
Number of poles	Thread	Gland type	L W H	Sta. pa	k Part no.	Part no.	Part no.
Size 6			80 43	28	72.320.0628.0		
for connector	M 20	0 with cable gland	84 52	54.5	1	72.330.0635.0	72.331.0635.0
6pole + ground		1 with threaded collar	84 52	54.5	I	72.330.0635.1	72.331.0635.1
Size 10			93 43	28	77.320.1028.0		
for connector	M 20	0 with cable gland	94 52	54.5		77.330.1035.0	77.331.1035.0
10pole + ground		1 with threaded collar	94 52	54.5	I	77.330.1035.1	77.331.1035.1
Size 16			113 43	28	77.320.1628.0		
for connector	M 25	0 with cable gland	117 52	56.5		77.330.1635.0	77.331.1635.0
16pole + ground		1 with threaded collar	117 52	56.5	I	77.330.1635.1	77.331.1635.1
Size 24			140 43	28	77.320.2428.0		
for connector	M25	0 with cable gland	144 52	56.5		77.330.2435.0	77.331.2435.0
24pole + ground		1 with threaded collar	144 52	56.5	1	77.330.2435.1	77.331.2435.1
Size 48			165 90	44	70.320.4828.0		
for connector	M32	0 with cable gland	146 120				70.331.4835.0
48pole + ground		1 with threaded collar	146 120		1		70.331.4835.1
.sps.s . ground		3 with strain relief	146 120	99			70.331.4835.3
	M 40	1 with threaded collar	146 120	99			

Mounting dimensions for open-bottom housings

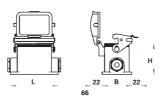


Ususina		t-out im)	Mounting holes (mm)			
Housing size	L1	L2	L3	L4	d1 (mm)	MI
6	52	35	70	32	4.3	M 4
10	65	35	83	32	4.3	M 4
16	85.5	35	103	32	4.3	M 4
24	112	35	130	32	4.3	M 4
48	117	81	148	70	6.4	M 6

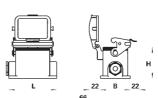
Housing type e



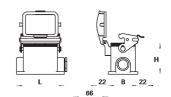
Housing type f



Housing type g



Housing type h



Housing closed bottom with cable gland at the bottom

Housing type d



Housing open bottom with protective cover Closed bottom with two glands and protective cover

Housing type f



Housing closed bottom with cable gland on the left and protective cover

Housing type g



Housing closed bottom with cable gland on the right and protective cover

Housing type h



Housing closed bottom with cable gland at the bottom and protective cover

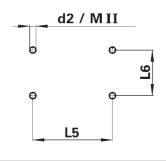
Housing type i



			No.		-
Part no.					
	72.325.0628.0				
72.333.0635.0		72.340.0635.0	72.341.0635.0	72.342.0635.0	72.343.0635.0
72.333.0635.1		72.340.0635.1	72.341.0635.1	72.342.0635.1	72.343.0635.1
	77.325.1028.0				
77.333.1035.0		77.340.1035.0	77.341.1035.0	77.342.1035.0	77.343.1035.0
77.333.1035.1		77.340.1035.1	77.341.1035.1	77.342.1035.1	77.343.1035.1
	77.325.1628.0				
77.333.1635.0		77.340.1635.0	77.341.1635.0	77.342.1635.0	77.343.1635.0
77.333.1635.1		77.340.1635.1	77.341.1635.1	77.342.1635.1	77.343.1635.1
	77.325.2428.0				
77.333.2435.0		77.340.2435.0	77.341.2435.0	77.342.2435.0	77.343.2435.0
77.333.2435.1		77.340.2435.1	77.341.2435.1	77.342.2435.1	77.343.2435.1
	70.325.4828.0				
			70.341.4835.1		
			70.341.4835.3		
			70.344.4835.1		

Mounting dimensions for closed-bottom housings

Mounting size	L5 (mm)	L6 (mm)	d2 (mm)	MII
6	70	40	5.5	M 5
10	82	40	5.5	M 5
16	105	45	5.5	M 5
24	132	45	5.5	M 5
48	111	106	6.5	M 6



Industrial Multipole Connectors Hoods with double locking levers

revos Basic



Hood type A

Hood type B

Hood type C













Degree of protection IP 55

Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: **600 V** UL/CSA
For inserts: **690 V** IEC 61 984

Number of poles	Thread	Gland type	Dimensions in mm	L	W	Н	Std. pack
Size 10 for connector	M 20	with cable gland with threaded collar with intermediate support with strain relief		73	43	53	1
10pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	
Size 16 for connector 16pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	1
Topole + ground	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	60	
Size 24 for connector 24pole + ground	M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
24pole + ground	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	70	1
Size 32 for connector	M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	82.5	94	1
32pole + ground	M 40	1 with threaded collar 2 with intermediate support		93.5	82.5	94	1

Hood type D

Hood type E

Hood type F













Hood	Hood for 24pole = 2 x M 25	Hood	Hood with locking levers	Hood with locking levers	Hood with locking levers
				for 24pole = 2 x M 25	
Hood type A	Hood type B	Hood type C	Hood type D	Hood type E	Hood type F
			5000		4-0-0-1
Part no.					
72.350.1035.0 72.350.1035.1 72.350.1035.2 72.350.1035.3	72.351.1035.0 72.351.1035.1 72.351.1035.2 72.351.1035.3	72.352.1035.0 72.352.1035.1 72.352.1035.2 72.352.1035.3	72.355.1035.0 72.355.1035.1 72.355.1035.2 72.355.1035.3	72.356.1035.0 72.356.1035.1 72.356.1035.2 72.356.1035.3	72.357.1035.0 72.357.1035.1 72.357.1035.2 72.357.1035.3
72.353.1035.0 72.353.1035.1 72.353.1035.2 72.353.1035.3		72.354.1035.0 72.354.1035.1 72.354.1035.2 72.354.1035.3	72.358.1035.0 72.358.1035.1 72.358.1035.2 72.358.1035.3		72.359.1035.0 72.359.1035.1 72.359.1035.2 72.359.1035.3
72.350.1635.0 72.350.1635.1 72.350.1635.2 72.350.1635.3	72.351.1635.0 72.351.1635.1 72.351.1635.2 72.351.1635.3	72.352.1635.0 72.352.1635.1 72.352.1635.2 72.352.1635.3	72.355.1635.0 72.355.1635.1 72.355.1635.2 72.355.1635.3	72.356.1635.0 72.356.1635.1 72.356.1635.2 72.356.1635.3	72.357.1635.0 72.357.1635.1 72.357.1635.2 72.357.1635.3
72.353.1635.0 72.353.1635.1 72.353.1635.2 72.353.1635.3		72.354.1635.0 72.354.1635.1 72.354.1635.2 72.354.1635.3	72.358.1635.0 72.358.1635.1 72.358.1635.2 72.358.1635.3		72.359.1635.0 72.359.1635.1 72.359.1635.2 72.359.1635.3
72.350.2435.0 72.350.2435.1 72.350.2435.2 72.350.2435.3	72.351.2435.0 72.351.2435.1 72.351.2435.2 72.351.2435.3	72.352.2435.0 72.352.2435.1 72.352.2435.2 72.352.2435.3	72.355.2435.0 72.355.2435.1 72.355.2435.2 72.355.2435.3	72.356.2435.0 72.356.2435.1 72.356.2435.2 72.356.2435.3	72.357.2435.0 72.357.2435.1 72.357.2435.2 72.357.2435.3
72.353.2435.0 72.353.2435.1 72.353.2435.2 72.353.2435.3		72.354.2435.0 72.354.2435.1 72.354.2435.2 72.354.2435.3	72.358.2435.0 72.358.2435.1 72.358.2435.2 72.358.2435.3		72.359.2435.0 72.359.2435.1 72.359.2435.2 72.359.2435.3
70.350.3235.0 70.350.3235.1 70.350.3235.2 70.350.3235.3		70.352.3235.0 70.352.3235.1 70.352.3235.2 70.352.3235.3			
70.353.3235.1 70.353.3235.2		70.354.3235.1 70.354.3235.2			

Industrial Multipole Connectors Housings with double locking levers

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Hood type a

Hood type b

Hood type c

Hood type d









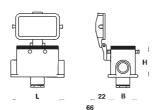








Housing type i



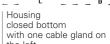
open bottom

Housing

Housing type a Ho

Housing closed bottom with two cable glands

Housing type b



Housing type c



Degree of protection IP 65 with matching cable glands (see accessories)

For inserts: **600 V** UL/CSA For inserts: **690 V** IEC 61 984

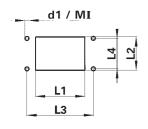






Number of poles	Thread	Gland type	L W	/ Н	Std.	pack	Part no.	Part no.	Part no.
Size 10			93	43	28	1	72.320.1028.0		
for connector	M 20	0 with cable gland	94	52	54.5	1		72.330.1035.0	72.331.1035.0
10pole + ground		1 with threaded collar	94	52	54.5	1		72.330.1035.1	72.331.1035.1
Size 16			113	43	28	1	72.320.1628.0		
for connector	M 25	0 with cable gland	117	52	56.5	1		72.330.1635.0	72.331.1635.0
16pole + ground		1 with threaded collar	117	52	56.5	1		72.330.1635.1	72.331.1635.1
Size 24			140	43	28	1	72.320.2428.0		
for connector	M 25	0 with cable gland	144	52	56.5	1		72.330.2435.0	72.331.2435.0
24pole + ground		1 with threaded collar	144	52	56.5	1		72.330.2435.1	72.331.2435.1
Size 32 for connector 32pole + ground			124	84	35	1	70.320.3228.0		

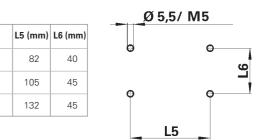
Mounting dimensions for open-bottom housings



Housing		-out im)	Mour holes	nting (mm)		
size	L1	L2	L3	L4	d1 (mm)	MI
10	65	35	83	32	4.3	M 4
16	85.5	35	103	32	4.3	M 4
24	112	35	130	32	4.3	M 4
32	117	81	148	70	6.4	M 6

Hood type e Housing type f Housing type g Housing type h Housing closed bottom with cable gland at the bottom and Housing Housing open bottom Housing Housing Housing closed bottom with cable gland closed bottom with cable gland on the left closed bottom
with cable gland on the closed bottom with with protective cover two glands at the bottom and protective cover and protective cover right and protective cover protective cover Housing type d Housing type e Housing type f Housing type g Housing type h Housing type i Part no. Part no. Part no. Part no. Part no. Part no. 70.325.1028.0 72.333.1035.0 72.340.1035.0 72.341.1035.0 72.342.1035.0 72.343.1035.0 72.343.1035.1 72.333.1035.1 72.340.1035.1 72.341.1035.1 72.342.1035.1 70.325.1628.0 72.333.1635.0 72.341.1635.0 72.342.1635.0 72.343.1635.0 72.340.1635.0 72.333.1635.1 72.340.1635.1 72.341.1635.1 72.342.1635.1 72.343.1635.1 70.325.2428.0 72.343.2435.0 72 333 2435 0 72.340.2435.0 72 341 2435 0 72 342 2435 0 72.333.2435.1 72.340.2435.1 72.341.2435.1 72.342.2435.1 72.343.2435.1





Industrial multipole connectors Multiple multipole connectors

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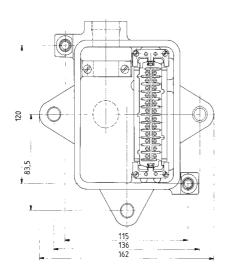
500 V, 16 A IEC 61 984

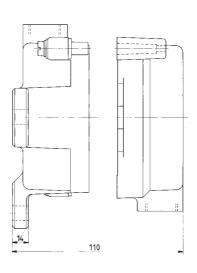
16pole and 24pole + ground

Degree of protection:

IP 65 with the appropriate cable glands

	Number of poles	Cable entry side	Thread	Part no.	Stand. pack	
Housing		narrow side	M 25	75.900.0035.0	1	
Hood		narrow side	M 25	75.900.0135.0	1	
Female insert	16pole + ground			70.300.1640.0	10	
Male insert	16pole + ground			70.310.1640.0	10	
Female insert	24pole + ground			70.300.2440.0	10	
Male insert	24pole + ground			70.310.2440.0	10	
Housing with female insert	16pole	narrow side	M 25	75.931.1635.0	1	
Housing with female insert	16pole	bottom	M 25	75.933.1635.0	1	
Housing with male insert	16pole	narrow side	M 25	75.941.1635.0	1	
Hood with male insert	16pole	narrow side	M 25	75.950.1635.0	1	
Hood with female insert	16pole	narrow side	M 25	75.960.1635.0	1	
Housing with female insert	24pole	narrow side	M 25	75.931.2435.0	1	
Housing with female insert	24pole	bottom	M 25	75.933.2435.0	•	
Housing with female insert	24pole	bottom/narrow side	M 25	75.934.2435.0		
Housing with male insert	24pole	narrow side	M 25	75.941.2435.0	1	
Hood with male insert	24pole	narrow side	M 25	75.950.2435.0	1	
Hood with finale insert	24pole 24pole	narrow side	M 25	75.960.2435.0		
Tiood With Terriale Insert	24pole	nanow side	IVI 23	73.300.2433.0	ı	
	Housings:	are delivered with M 25 threads With bottom entry threads, the side entry is with a locking piece	s sealed			
	Hoods:	are delivered with M25 threads and preasse locking piece	embled			





Industrial multipole connectors, sets of 2 components Housing with multipole adapter with single and double locking levers

revos Basic



600 V UL/CSA

500 V, 16 A IEC 61 984

			Cross section	Approvals	Wire strip length	Stand. pack
Single locking lever	Screw connection Housing with multipole adapter, long design(6 marking fields), mounting from the rear, Multipole adapter in the housing, unassembled	Multipole adapter in the housing Single locking lever Female adapter insert, ground right Female adapter insert, ground left Male adapter insert, ground right Male adapter insert, ground left	0.5 – 4 mm ² 20 – 12 AWG	⊕@17(\$) ⊕@17(\$) ⊕@17(\$) ⊕@17(\$)	12 mm 12 mm 12 mm 12 mm	10 10 10
Single locking lever	Screw connection Housing with multipole adapter, short design (4 markingfields), mounting fromthe rear, Multipole adapterin the housing, unassembled	Multipole adapter in the housing Single locking lever Female adapter insert, ground right Female adapter insert, ground left Male adapter insert, ground right Male adapter insert, ground left	0.5 – 4 mm ² 20 – 12 AWG	⊕@1R(\$ ⊕®1R(\$ ⊕@1R(\$ ⊕@1R(\$	12 mm 12 mm 12 mm 12 mm	10 10 10 10
Double locking lever	Screw connection Housing with multipole adapter, long design (6 marking fields), mounting from the rear, Multipole adapter in the housing,	Multipole adapter in the housing Double locking lever Female adapter insert, ground right Female adapter insert, ground left Male adapter insert, ground right Male adapter insert, ground left	0.5 – 4 mm ² 20 – 12 AWG	\$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100	12 mm 12 mm 12 mm 12 mm	10 10 10
Double locking lever	unassembled Screw connection Housing with multipole adapter, short design (4 markingfields), mounting fromthe rear, Multipole adapterin the housing,	Multipole adapter in the housing Double locking lever Female adapter insert, ground right Female adapter insert, ground left Male adapter insert, ground right Male adapter insert, ground left	0.5 – 4 mm ² 20 – 12 AWG	©®R© ©®R© ©®R© ©®R©	12 mm 12 mm 12 mm 12 mm	10 10 10 10
	unassembled					

6pole + ground	10pole + ground	16pole + ground	24pole + ground	
Part no.	Part no.	Part no.	Part no.	
				For hoods see page 633
70.945.0653.3	71.945.1053.3	71.945.1653.3	71.945.2453.3	
70.940.0653.3	71.940.1053.3	71.940.1653.3	71.940.2453.3	₩ 5°7
70.955.0653.3	71.955.1053.3	71.955.1653.3	71.955.2453.3	
70.950.0653.3	71.950.1053.3	71.950.1653.3	71.950.2453.3	W
70.945.0653.4	71.045.1052.4	71 045 1650 4	71 045 2452 4	For hoods see page 633
	71.945.1053.4	71.945.1653.4	71.945.2453.4	4 1
70.940.0653.4	71.940.1053.4	71.940.1653.4	71.940.2453.4	55
70.955.0653.4	71.955.1053.4	71.955.1653.4	71.955.2453.4	
70.950.0653.4	71.950.1053.4	71.950.1653.4	71.950.2453.4	
				5 1 1 200
				For hoods see page 636
	70.945.1053.3	70.945.1653.3	70.945.2453.3	
	70.940.1053.3	70.940.1653.3	70.940.2453.3	94, 5
	70.955.1053.3	70.955.1653.3	70.955.2453.3	
	70.950.1053.3	70.950.1653.3	70.950.2453.3	UIIIIIII T
				For hoods see page 636
	70.945.1053.4	70.945.1653.4	70.945.2453.4	
	70.940.1053.4	70.940.1653.4	70.940.2453.4	<u> </u>
	70.955.1053.4	70.955.1653.4	70.955.2453.4	
	70.950.1053.4	70.950.1653.4	70.950.2453.4	
				For inserts and multipole adapters see page 630
				66

Industrial multipole connectors, sets of 2 components Housing with multipole adapter with single and double locking levers

revos Basic



600 V UL/CSA **500 V, 16 A** IEC 61 984

			Cross section	Approvals	Wire strip length	Stand. pacl
ingle locking lever	Screw connection Housing with multipole	Multipole adapter in the housing Single locking lever	0.5 – 4 mm ² 20 – 12 AWG			
	adapter, long design (6 marking fields), mounting	Female adapter insert, ground right Female adapter insert, ground left		\$¶⊕ \$¶⊕	12 mm 12 mm	10 10
may S	from the rear, Multipole adapter in the housing,	Male adapter insert, ground right		\$ @⊕ \$ @⊕	12 mm	10
Party of the Party	unassembled	Male adapter insert, ground left		\$/હ#⇔	12 mm	1
ngle locking lever	Screw connection Housing with multipole	Multipole adapter in the housing Single locking lever	0.5 – 4 mm ² 20 – 12 AWG			
	adapter, short design	Female adapter insert, ground right			12 mm	1
	(4 markingfields), mounting fromthe rear, Multipole	Female adapter insert, ground left			12 mm	1
mily.	adapterin the housing, unassembled	Male adapter insert, ground right			12 mm 12 mm	1
	unassembled	Male adapter insert, ground left			12 mm	I
ouble locking lever	Screw connection Housing with multipole	Multipole adapter in the housing Double locking lever	0.5 – 4 mm ² 20 – 12 AWG			
6	adapter, long design	Female adapter insert, ground right	20 - 12 AVVG	£© ⊕ £© ⊕	12 mm	1
A STATE OF THE PARTY OF THE PAR	(6 marking fields), mounting	Female adapter insert, ground left		€)®⊕	12 mm	1
	from the rear, Multipole adapter in the housing,	Male adapter insert, ground right		\$® ⊕ \$®⊕	12 mm	
Part of the Part o	unassembled	Male adapter insert, ground left		€)@⊕	12 mm	1
ouble locking lever	Screw connection	Multipole adapter in the housing	0.5 – 4 mm ² 20 – 12 AWG			
(a)	Housing with multipole adapter, short design	Double locking lever Female adapter insert, ground right	20 – 12 AVVG		12 mm	1
Jim.	(4 markingfields), mounting fromthe rear, Multipole	Female adapter insert, ground left			12 mm	1
	adapterin the housing,	Male adapter insert, ground right			12 mm	1
The state of the s	unassembled	Male adapter insert, ground left			12 mm	1

6pole + ground	10pole + ground	16pole + ground	24pole + ground	
Do at a c	Death or a	Death	Destruction	
Part no.	Part no.	Part no.	Part no.	
72.945.0653.0 72.940.0653.0	77.945.1053.0 77.940.1053.0	77.945.1653.0 77.940.1653.0	77.945.2453.0 77.940.2453.0	For hoods see page 656
72.955.0653.0 72.950.0653.0	77.955.1053.0 77.950.1053.0	77.955.1653.0 77.950.1653.0	77.955.2453.0 77.950.2453.0	7,6
72.945.0653.4	77.945.1053.4	77.945.1653.4	77.945.2453.4	For hoods see page 656
72.940.0653.4	77.940.1053.4	77.940.1653.4	77.940.2453.4	,
72.955.0653.4	77.955.1053.4	77.955.1653.4	77.955.2453.4	
72.950.0653.4	77.950.1053.4	77.950.1653.4	77.950.2453.4	
				For hoods see page 660
	72.945.1053.0 72.940.1053.0	72.945.1653.0 72.940.1653.0	72.945.2453.0 72.940.2453.0	
				7.5
	72.955.1053.0 72.950.1053.0	72.955.1653.0 72.950.1653.0	72.955.2453.0 72.950.2453.0	,
				For hoods see page 660
	72.945.1053.4 72.940.1053.4	72.945.1653.4 72.940.1653.4	72.945.2453.4 72.940.2453.4	To Hoods see page ood
	72.340.1033.4	72.340.1033.4	72.340.2433.4	
	72.955.1053.4 72.950.1053.4	72.955.1653.4 72.950.1653.4	72.955.2453.4 72.950.2453.4	
	72.000.1000.4	72.330.1030.4	72.000.2400.4	
Pole configuration	Pole assignment	Pole assignment	Pole assignment	For inserts and multipole adapters
6pole + ground	10pole + ground	16pole + ground	24pole + ground	see page 654
		> -	-	X = switching contacts (2 shortened male pins)
			17 • 0 24 24 0 • 12	
)-		8 • 0 16 16 0 • 18 7 • • 15 15 • • 7 6 • • 14 14 • • 6	9 • 21 21 • 9 8 • 20 20 20 • 8 7 • 19 • 7	
	5 • • 10 10 • 5 4 • • 9 9 • • 4 3 • • 8 X 8 • • 3	8 0 0 16 1 16 0 0 8 8 7 0 0 16 1 16 0 0 0 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
3 • 0 6 X 6 0 3 3 2 1 0 4 X 6 0 1	2		2 • 16 15 • 3 2 • 16 17 17 18 • 2 1 0 • 13 13 • 0 1	
	+ - +			

Industrial multipole connectors, sets of 2 components Housing with multipole adapter with single and double locking levers

revos BASIC





			Cross section	Approvals	Wire strip length	Stand. pack
Single locking lever	Screw connection Housing with multipole	Multipole adapter in the housing Single locking lever	0.5 – 4 mm ² 20 – 12 AWG	An G		
	adapter, long design (6 marking fields), mounting from the rear, Multipole	Female adapter insert, ground right Female adapter insert, ground left		<i>⊕®1</i> ₽(\$ <i>⊕®1</i> ₽(\$	12 mm 12 mm	10 10
	adapter in the housing, unassembled	Male adapter insert, ground right Male adapter insert, ground left		<i>⊕®1</i> ₽(\$ <i>⊕®1</i> ₽(\$	12 mm 12 mm	10 10
Single locking lever	Screw connection Housing with multipole	Multipole adapter in the housing Single locking lever	0.5 – 4 mm ² 20 – 12 AWG			
	adapter, short design (4 markingfields), mounting	Female adapter insert, ground right Female adapter insert, ground left	20 12 AVVG		12 mm 12 mm	10 10
	fromthe rear, Multipole adapterin the housing, unassembled	Male adapter insert, ground right Male adapter insert, ground left			12 mm 12 mm	10 10
Double locking lever	Screw connection	Multipole adapter in the housing	0.5 – 4 mm ²			
So ed	Housing with multipole adapter, long design (6 marking fields), mounting	Female adapter insert, ground right Female adapter insert, ground left	20 – 12 AWG	⊕® 18(\$ ⊕® 18(\$	12 mm 12 mm	10 10
	from the rear, Multipole adapter in the housing,	Male adapter insert, ground right		⊕@ <i>L</i> R(§) ⊕@ <i>L</i> R(§)	12 mm	10
	unassembled	Male adapter insert, ground left		€918 €	12 mm	10
Double locking lever	Screw connection Housing with multipole	Multipole adapter in the housing Double locking lever	0.5 – 4 mm ² 20 – 12 AWG		10	10
	adapter, short design (4 markingfields), mounting fromthe rear, Multipole	Female adapter insert, ground right Female adapter insert, ground left			12 mm 12 mm	10 10
	adapterin the housing, unassembled	Male adapter insert, ground right Male adapter insert, ground left			12 mm 12 mm	10 10

3pole + ground	6pole + ground	10pole + ground	
Part no.	Part no.	Part no.	
71.965.0353.3 71.960.0353.3 71.975.0353.3 71.970.0353.3	71.965.0653.3 71.960.0653.3 71.975.0653.3 71.970.0653.3	71.965.1053.3 71.960.1053.3 71.975.1053.3 71.970.1053.3	For hoods see page 644
71.965.0353.4 71.960.0353.4 71.975.0353.4 71.970.0353.4	71.965.0653.4 71.960.0653.4 71.975.0653.4 71.970.0653.4	71.965.1053.4 71.960.1053.4 71.975.1053.4 71.970.1053.4	For hoods see page 644
70.965.0353.3 70.960.0353.3 70.975.0353.3 70.970.0353.3	70.965.0653.3 70.960.0653.3 70.975.0653.3 70.970.0653.3	70.965.1053.3 70.960.1053.3 70.975.1053.3 70.970.1053.3	For hoods see page 648
70.965.0353.4 70.960.0353.4 70.975.0353.4 70.970.0353.4	70.965.0653.4 70.960.0653.4 70.975.0653.4 70.970.0653.4	70.965.1053.4 70.960.1053.4 70.975.1053.4 70.970.1053.4	For hoods see page 648
Pole assignment	Pole assignment	Pole assignment	For inserts and multipole adapters
3pole + ground	6pole + ground X R R R R R R R R R R R R	10pole + ground 10pole + ground 20 20 20 20 20 20 20 20 20 20 20 20 20	see page 642 X = switching contacts (2 shortened male pins)

Industrial multipole connectors, sets of 4 components with double locking levers

revos Basic





500 V, 16 A IEC 61 984

Hood/housing size	Number of poles	Thread	Stand. pack	Part no.	Female insert	Male insert
					Screw connection	Screw connection
						Alexander and the second
For technical informat	ion see the individual					
components					70.300.xx40.0	70.310.xx40.0
6	6pole + ground	M 20	1	99.700.0000.6	•	•
10	10pole + ground	M 20	1	99.701.0000.6		•
16	16pole + ground	M 25	1	99.702.0000.6		•
24	24pole + ground	M 25	1	99.703.0000.6	•	•
6	6pole + ground	M 25	1	99.706.0000.6	•	•
10	10pole + ground	M 25	1	99.707.0000.6	•	•
16	16pole + ground	M 32	1	99.708.0000.6	•	•
24	24pole + ground	M 32	1	99.709.0000.6	•	•
6	6pole + ground	M 25	1	99.718.0000.6	•	•
10	10pole + ground	M 25	1	99.719.0000.6	•	•
16	16pole + ground	M 32	1	99.720.0000.6	•	•
24	24pole + ground	M 32	1	99.721.0000.6		
6	6pole + ground	M 20	1	99.724.0000.6		•
10	10pole + ground	M 20	1	99.725.0000.6		•
16	16pole + ground	M 25	1	99.726.0000.6		
24	24pole + ground	M 25	1	99.727.0000.6		•

parts belonging to the set of 4 components

Connector set complete with:

Female and male inserts plugged together, inserted in the mated hood and housing (unassembled), locked

Hood with narrow-side entry metric cable gland	Hood with top entry metric cable gland	Open-bottom housing	Closed-bottom housing with one metric cable gland
70.35x.xx35.0	70.352.xx35.0	70.320.xx28.0	70.331.xx35.0
•		•	
•		•	
	•		

Industrial multipole connectors Multipole connector with latching frame

revos Basic



Latching frame to be inserted in sheet metal cut-out, and for use in cable to cable couplings.

 $0.5 - 2.5 \text{ mm}^2 \text{ solid/fine stranded}$ 20 - 12 AWGScrew connection

Rated current 16 A Rated voltage VDE 500 V* 600 V Rated voltage CSA

* The mounting style might change the air and creepage distances and influence the rated voltage.

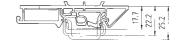
For accessories and marking facilities see page 788

Tacilities s	ee page 788		
	Approvals	Wire strip length	Stand. pack
Female insert	®	7 mm	10
Male insert	•	7 mm	10
Female insert	①	7 mm	10
Male insert	®	7 mm	10
Female insert	•	7 mm	10
Male insert	•	7 mm	10
Female insert	•	7 mm	10
Male insert	•	7 mm	10
Female insert, ground right Female insert, ground right with U-foot Female insert, ground left Female insert, ground left with U-foot	9	12 mm	10
Male insert, ground right Male insert, ground right with U-foot Male insert, ground left Male insert, ground left with U-foot	9	12 mm	10
Female insert, ground right Female insert, ground right with U-foot Female insert, ground left Female insert, ground left with U-foot	0	12 mm	10
Male insert, ground right Male insert, ground right with U-foot Male insert, ground left Male insert, ground left with U-foot	®	12 mm	10
	Female insert Male insert Female insert Male insert Male insert Female insert Male insert Female insert Male insert Female insert, ground right Female insert, ground right with U-foot Female insert, ground left Female insert, ground left with U-foot Male insert, ground right with U-foot Male insert, ground right with U-foot Female insert, ground left with U-foot Male insert, ground right with U-foot Male insert, ground left walle insert g	Female insert Male insert Female insert Male insert Male insert Male insert Female insert Male insert Female insert Male insert Male insert Female insert, ground right Female insert, ground left with U-foot Male insert, ground right with U-foot Male insert, ground right with U-foot Male insert, ground right with U-foot Female insert, ground right with U-foot Male insert ground right with U-foot Male insert ground right with U-foot Male insert ground right with U-foot	Female insert Approvals Wire strip length T mm Male insert T mm Male insert, ground right Eemale insert, ground left Female insert, ground left Male insert, ground left with U-foot

6pole + ground	10pole + ground	16pole + ground	24pole + ground
_	_		_
Part no.	Part no.	Part no.	Part no.
Z5.570.0156.0	Z5.570.0256.0	Z5.570.0056.0	Z5.570.0356.0
Z5.571.0156.0	Z5.571.0256.0	Z5.571.0056.0	Z5.571.0356.0
Z5.570.1156.0	Z5.570.1256.0	Z5.570.1056.0	Z5.570.1356.0
Z5.571.1156.0	Z5.571.1256.0	Z5.571.1056.0	Z5.571.1356.0
Z5.570.2156.0	Z5.570.2256.0	Z5.570.2056.0	Z5.570.2356.0
Z5.571.2156.0	Z5.571.2256.0	Z5.571.2056.0	Z5.571.2356.0
Z5.570.3156.0	Z5.570.3256.0	Z5.570.3056.0	Z5.570.3356.0
Z5.571.3156.0	Z5.571.3256.0	Z5.571.3056.0	Z5.571.3356.0
Z5.572.1156.0 Z5.572.5156.0 Z5.572.0156.0 Z5.572.4156.0	Z5.572.1256.0 Z5.572.5256.0 Z5.572.0256.0 Z5.572.4256.0	Z5.572.1056.0 Z5.572.5056.0 Z5.572.0056.0 Z5.572.0056.0 Z5.572.4056.0	Z5.572.1356.0 Z5.572.5356.0 Z5.572.0356.0 Z5.572.4356.0
Z5.573.1156.0 Z5.573.5156.0 Z5.573.0156.0 Z5.573.4156.0	Z5.573.1256.0 Z5.573.5256.0 Z5.573.0256.0 Z5.573.4256.0	Z5.573.1056.0 Z5.573.5056.0 Z5.573.0056.0 Z5.573.4056.0	Z5.573.1356.0 Z5.573.5356.0 Z5.573.0356.0 Z5.573.4356.0
Z5.572.3156.0 Z5.572.7156.0 Z5.572.2156.0 Z5.572.6156.0	Z5.572.3256.0 Z5.572.7256.0 Z5.572.2256.0 Z5.572.6256.0	Z5.572.3056.0 Z5.572.7056.0 Z5.572.2056.0 Z5.572.6056.0	Z5.572.3356.0 Z5.572.7356.0 Z5.572.2356.0 Z5.572.6356.0
Z5.573.3156.0 Z5.573.7156.0 Z5.573.2156.0 Z5.573.6156.0	Z5.573.3256.0 Z5.573.7256.0 Z5.573.2256.0 Z5.573.6256.0	Z5.573.3056.0 Z5.573.7056.0 Z5.573.2056.0 Z5.573.6056.0	Z5.573.3356.0 Z5.573.7356.0 Z5.573.2356.0 Z5.573.6356.0

Universal foot, 23 mm wide

05.583.0053.0



Delivered as standard component where indicated

Cut-out for latching frames

Sheet metal: 2 \pm 0.05 mm thick



Housing size	L1 (mm)	L2 (mm)	L3 (mm)
6	67.5	74.1	62.5
10	80.9	87.5	75.9
16	101	106.5	96
24	127.8	134.4	122.8

Industrial multipole connectors Multipole connector with latching frame

revos Basic



Latching frame to be inserted in sheet metal cut-out, and for use in cable to cable couplings.

 $0,5-4 \text{ mm}^2$ fine stranded 20-12 AWGCrimp connection

Rated current Rated voltage VDE 16 A 500 V* Rated voltage CSA 600 V

* The mounting style might change the air and creepage distances and influence the rated voltage.

For accessories and marking facilities see page 788

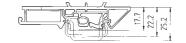
000 V, 10 A 120 01 004	Taomitioo ex	se page 700		
		Approvals	Wire strip length	Stand. pack
Latching frame with strain relief	Female insert	•	7 mm	10
11 38	Male insert	•	7 mm	10
Latching frame	Female insert	•	7 mm	10
L1 38	Male insert	•	7 mm	10
Latching frame with strain relief and locking levers	Female insert	•	7 mm	10
L2 _38_	Male insert	•	7 mm	10
Latching frame with locking levers	Female insert	•	7 mm	10
12 38	Male insert	•	7 mm	10

Contacts for crir	mp version	Ø mm²	AWG	Part no.	Stand. pack	Ø mm²	AWG	Part no.	Stand. pack
Female contacts		0.5 0.75 – 1 1.5 2.5	20 AWG 18 AWG 16 AWG 14 AWG 12 WG	tin-plated 02.123.7021 02.123.7121 02.123.7221 02.123.7321 02.123.7421	.0 200 .0 200 .0 200	0.5 0.75 – 1 1.5 2.5	20 AWG 18 AWG 16 AWG 14 AWG 12 WG	gold-plated 02.123.7001.0 02.123.7101.0 02.123.7201.0 02.123.7301.0 02.123.7401.0	200
Male contacts		0.5 0.75 – 1 1.5 2.5 4	20 AWG 18 AWG 16 AWG 14 AWG 12 AWG	05.543.7021 05.543.7121 05.543.7221 05.543.7321 05.543.7421	.0 200 .0 200 .0 200	0.5 0.75 – 1 1.5 2.5 4	20 AWG 18 AWG 16 AWG 14 AWG 12 AWG	05.543.7001.0 05.543.7101.0 05.543.7201.0 05.543.7301.0 05.543.7401.0	200
Crimping tool Crimping die "B" Contact positioner "3' Extraction tool	"			95.101.0800 05.502.2100 05.502.3300 05.502.3500	i.0 1			silver-plated up	oon request

Extraction tool		05.502.3500.0 1			
6pole + ground	10pole + ground	16pole + ground	24pole + ground		
Part no.	Part no.	Part no.	Part no.		
Z5.570.4156.0	Z5.570.4256.0	Z5.570.4056.0	Z5.570.4356.0		
Z5.571.4156.0	Z5.571.4256.0	Z5.571.4056.0	Z5.571.4356.0		
Z5.570.5156.0	Z5.570.5256.0	Z5.570.5056.0	Z5.570.5356.0		
Z5.571.5156.0	Z5.571.5256.0	Z5.571.5056.0	Z5.571.5356.0		
Z5.570.6656.0	Z5.570.6756.0	Z5.570.6556.0	Z5.570.6856.0		
Z5.571.6656.0	Z5.571.6756.0	Z5.571.6556.0	Z5.571.6856.0		
Z5.570.8656.0	Z5.570.8756.0	Z5.570.8556.0	Z5.570.8856.0		
Z5.571.8656.0	Z5.571.8756.0	Z5.571.8556.0	Z5.571.8856.0		

Universal foot, 23 mm wide

05.583.0053.0



Delivered as standard component where indicated

Cut-out for latching frames

Sheet metal: 2 ± 0.05 mm thick



Housing size	L1 (mm)	L2 (mm)	L3 (mm)
6	67.5	74.1	62.5
10	80.9	87.5	75.9
16	101	106.5	96
24	127.8	134.4	122.8

Industrial multipole connectors Multipole connector with latching frame

revos Basic



Latching frame to be inserted in sheet metal cut-out, and for use in cable to cable couplings.

 $0.5 - 2.5 \text{ mm}^2 \text{ solid/fine stranded}$ 20 - 12 AWGScrew connection

Rated current Rated voltage VDE

- multipole connector – multipole adapter

690 V ~* 500 V ~*

Rated voltage CSA 600 V

* The mounting style might change the air and creepage distances and influence the rated voltage.

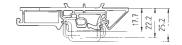
For accessories and marking facilities see page 788

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Female insert Male insert	Approvals	Wire strip length 7 mm	Stand. pack
11 38			7 mm	10
L1 38	Male insert	①		
			7 mm	10
Latching frame	Female insert	6	7 mm	10
11 .38	Male insert	•	7 mm	10
Latching frame with strain relief and locking levers	Female insert	•	7 mm	10
	Male insert	•	7 mm	10
Latching frame with locking levers	Female insert	•	7 mm	10
L238	Male insert	•	7 mm	10
with latching frame	Female insert, ground right Female insert, ground right with U-foot Female insert, ground left Female insert, ground left with U-foot	6	12 mm	10
	Male insert, ground right Male insert, ground right with U-foot Male insert, ground left Male insert, ground left with U-foot	6	12 mm	10
Traine and looking levels	Female insert, ground right Female insert, ground right with U-foot Female insert, ground left Female insert, ground left with U-foot	6	12 mm	10
	Male insert, ground right Male insert, ground right with U-foot Male insert, ground left Male insert, ground left with U-foot	6	12 mm	10

6pole + ground	10pole + ground	16pole + ground	24pole + ground
_			_
Part no.	Part no.	Part no.	Part no.
Z5.570.0656.0	Z5.570.0756.0	Z5.570.0556.0	Z5.570.0856.0
Z5.571.0656.0	Z5.571.0756.0	Z5.571.0556.0	Z5.571.0856.0
Z5.570.1656.0	Z5.570.1756.0	Z5.570.1556.0	Z5.570.1856.0
Z5.571.1656.0	Z5.571.1756.0	Z5.571.1556.0	Z5.571.1856.0
Z5.570.2656.0	Z5.570.2756.0	Z5.570.2556.0	Z5.570.2856.0
Z5.571.2656.0	Z5.571.2756.0	Z5.571.2556.0	Z5.571.2856.0
Z5.570.3656.0	Z5.570.3756.0	Z5.570.3556.0	Z5.570.3856.0
Z5.571.3656.0	Z5.571.3756.0	Z5.571.3556.0	Z5.571.3856.0
Z5.572.1656.0 Z5.572.5656.0 Z5.572.0656.0 Z5.572.0656.0	Z5.572.1756.0 Z5.572.5756.0 Z5.572.0756.0 Z5.572.4756.0	Z5.572.1556.0 Z5.572.5556.0 Z5.572.0556.0 Z5.572.4556.0	Z5.572.1856.0 Z5.572.5856.0 Z5.572.0856.0 Z5.572.4856.0
Z5.573.1656.0 Z5.573.5656.0 Z5.573.0656.0 Z5.573.4656.0	Z5.573.1756.0 Z5.573.5756.0 Z5.573.0756.0 Z5.573.4756.0	Z5.573.1556.0 Z5.573.5556.0 Z5.573.0556.0 Z5.573.4556.0	Z5.573.1856.0 Z5.573.5856.0 Z5.573.0856.0 Z5.573.4856.0
Z5.572.3656.0 Z5.572.7656.0 Z5.572.2656.0 Z5.572.6656.0	Z5.572.3756.0 Z5.572.7756.0 Z5.572.2756.0 Z5.572.6756.0	Z5.572.3556.0 Z5.572.7556.0 Z5.572.2556.0 Z5.572.6556.0	Z5.572.3856.0 Z5.572.7856.0 Z5.572.2856.0 Z5.572.6856.0
Z5.573.3656.0 Z5.573.7656.0 Z5.573.2656.0 Z5.573.6656.0	Z5.573.3756.0 Z5.573.7756.0 Z5.573.2756.0 Z5.573.6756.0	Z5.573.3556.0 Z5.573.7556.0 Z5.573.2556.0 Z5.573.6556.0	Z5.573.3856.0 Z5.573.7856.0 Z5.573.2856.0 Z5.573.6856.0

Universal foot, 23 mm wide

05.583.0053.0



Delivered as standard component where indicated

Cut-out for latching frames

Sheet metal: 2 ± 0.05 mm thick



Housing size	L1 (mm)	L2 (mm)	L3 (mm)
6	67.5	74.1	62.5
10	80.9	87.5	75.9
16	101	106.5	96
24	127.8	134.4	122.8

Industrial multipole connectors Multipole connector with latching frame

revos Basic



Latching frame to be inserted in sheet metal cut-out, and for use in cable to cable couplings.

Crimp connection 0,5 – 4 mm² fine stranded

20 - 12 AWG

Rated current 16 A Rated voltage VDE 690 V ~* Rated voltage CSA 600 V

* The mounting style might change the air and creepage distances and influence the rated voltage.

For accessories and marking facilities see page 788

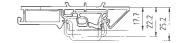
000 T, 10 A	120 01 304					page 700		
			Dimensions in mm	L W	H A	pprovals	Wire strip length	Stand. pack
Latching frame with strain relief	Female insert			(6)	<u> </u>	7 mm	10	
	L1 38	Male insert			•		7 mm	10
SITTEE	Latching frame	Female insert			(6)	A	7 mm	10
	L1 38	Male insert			(7 mm	10
	Latching frame with strain relief and locking levers \[\begin{align*} \cdot	Female insert					7 mm	10
Maccal 1	L2 38	Male insert					7 mm	10
Winn.k.	Latching frame with locking levers	Female insert			•		7 mm	10
	12 38	Male insert			•		7 mm	10

Contacts for cri	mp version	Ø mm ²	AWG	Part no.	Stand. pack	Ø mm ²	AWG	Part no.	Stand. pack
Female contacts		0.5 0.75 – 1 1.5 2.5 4	20 AWG 18 AWG 16 AWG 14 AWG 12 WG	tin-plated 02.123.702 02.123.712 02.123.722 02.123.732 02.123.742	1.0 200 1.0 200 1.0 200	0.5 0.75 – 1 1.5 2.5 4	20 AWG 18 AWG 16 AWG 14 AWG 12 WG	gold-plated 02.123.7001.0 02.123.7101.0 02.123.7201.0 02.123.7301.0 02.123.7401.0	200
Male contacts	- American	0.5 0.75 – 1 1.5 2.5 4	20 AWG 18 AWG 16 AWG 14 AWG 12 AWG	05.543.702 05.543.712 05.543.722 05.543.732 05.543.742	1.0 200 1.0 200 1.0 200	0.5 0.75 – 1 1.5 2.5 4	20 AWG 18 AWG 16 AWG 14 AWG 12 AWG	05.543.7001.0 05.543.7101.0 05.543.7201.0 05.543.7301.0 05.543.7401.0	200
Crimping tool Crimping die "B" Contact positioner "3 Extraction tool	3"			95.101.0800 05.502.2100 05.502.3300 05.502.3500	0.0 1 0.0 1			silver-plated upo	on request

Extraction tool		05.502.3500.0				
6pole + ground	10pole + ground	16pole + ground	24pole + ground			
Part no.	Part no.	Part no.	Part no.			
Z5.570.4656.0	Z5.570.4756.0	Z5.570.4556.0	Z5.570.4856.0			
Z5.571.4656.0	Z5.571.4756.0	Z5.571.4556.0	Z5.571.4856.0			
Z5.570.5656.0	Z5.570.5756.0	Z5.570.5556.0	Z5.570.5856.0			
Z5.571.5656.0	Z5.571.5756.0	Z5.571.5556.0	Z5.571.5856.0			
Z5.570.7656.0	Z5.570.7756.0	Z5.570.7556.0	Z5.570.7856.0			
Z5.571.7656.0	Z5.571.7756.0	Z5.571.7556.0	Z5.571.7856.0			
Z5.570.9656.0	Z5.570.9756.0	Z5.570.9556.0	Z5.570.9856.0			
Z5.571.9656.0	Z5.571.9756.0	Z5.571.9556.0	Z5.571.9856.0			

Universal foot, 23 mm wide

05.583.0053.0



Delivered as standard component where indicated

Cut-out for latching frames

Sheet metal: 2 ± 0.05 mm thick



Housing size	L1 (mm)	L2 (mm)	L3 (mm)
6	67.5	74.1	62.5
10	80.9	87.5	75.9
16	101	106.5	96
24	127.8	134.4	122.8

Industrial multipole connectors Multipole connector with latching frame

revos Basic



250 V, 10 A IEC 61 984

Latching frame to be inserted in sheet metal cut-out, and for use in cable to cable couplings.

0,5 - 2.5 mm^2 solid/fine stranded 20 - 12 AWG Screw connection

0,2 – 1.5 mm² fine stranded 24 – 16 AWG Crimp connection

Rated current 10 A 250 V* Rated voltage VDE Rated voltage CSA 600 V

* The mounting style might change the air and creepage distances and influence the rated voltage.

For accessories and marking facilities see page 788

230 V, IUA ILC 01 304	366 pc	age 700		
		Approvals	Wire strip length	Stand. pack
Latching frame with strain re	elief Female insert in crimp version	•	4 mm	10
11 38	Male insert in crimp version	•	4 mm	10
Latching frame	Female insert in crimp version	•	4 mm	10
L1 38	Male insert in crimp version	•	4 mm	10
Latching frame with strain reand locking levers	elief Female insert in crimp version	•	4 mm	10
12 33	Male insert in crimp version	•	4 mm	10
Latching frame with locking levers	Female insert in crimp version	•	4 mm	10
12 38	Male insert in crimp version	•	4 mm	10
Multipole adapter Screw verwith latching frame	Female insert, ground right Female insert, ground right with U-foot Female insert, ground left Female insert, ground left with U-foot	•	12 mm	4
L1 38	Male insert, ground right Male insert, ground right with U-foot Male insert, ground left Male insert, ground left with U-foot	®	12 mm	4
Multipole adapter Screw ve with latching frame and locking levers	rsion Female insert, ground right Female insert, ground right with U-foot Female insert, ground left Female insert, ground left with U-foot	®	12 mm	4
12	Male insert, ground right Male insert, ground right with U-foot Male insert, ground left Male insert, ground left with U-foot	®	12 mm	4

Contacts for crimp version

Female contacts

Male contacts

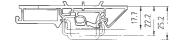


Ø mm ²	AWG	Part no. Stand	d. pack	Ø mm ²	AWG	Part no. St	tand. pack
0.2 - 0.56 mm ² Reel contacts Single contacts 0.75 - 1.50 mm Reel contacts Single contacts		tin-plated 02.124.0900.0 02.124.0929.0 02.124.1000.0 02.124.1029.0	5000 200 5000 200	0.5 – 1.50 mm² Reel contacts Single contacts	20 – 16	gold-plated 02.124.1400 02.124.1429	
0.2 – 0.56 mm ² Reel contacts Single contacts 0.75 – 1.50 mm Reel contacts		05.544.0900.0 05.544.0929.0 05.544.1000.0 05.544.1029.0	5000 200 5000 200	0.5 – 1.50 mm² Reel contacts Single contacts	20 - 16	05.544.1400 05.544.1429	
Single contacts		00.044.1020.0	200	Crimping tool Crimping die "E" Contact		95.101.0800 05.502.2400	
				positioner "2" Extraction tool		05.502.3200).0 1
				1001		05.502.0000	0.0 1

40pole + ground	64pole + ground
Part no.	Davi no
Z5.570.6056.0	Part no. Z5.570.6156.0
25.57 6.6565.5	25.07.010.100.10
Z5.571.6056.0	Z5.571.6156.0
Z5.570.7056.0	Z5.570.7156.0
Z5.571.7056.0	Z5.571.7156.0
Z5.570.8056.0	Z5.570.8156.0
Z5.571.8056.0	Z5.571.8156.0
Z5.570.9056.0	Z5.570.9156.0
Z5.571.9056.0	Z5.571.9156.0
Z5.572.8356.0 Z5.572.9356.0 Z5.572.8056.0 Z5.572.9156.0	Z5.572.8456.0 Z5.572.9456.0 Z5.572.8156.0 Z5.572.9256.0
Z5.573.8356.0 Z5.573.9356.0 Z5.573.8056.0 Z5.573.9156.0	Z5.573.8456.0 Z5.573.9456.0 Z5.573.8156.0 Z5.573.9256.0
Z5.572.8956.0 Z5.572.9756.0 Z5.572.8656.0 Z5.572.9556.0	Z5.572.9056.0 Z5.572.9856.0 Z5.572.8756.0 Z5.572.9656.0
Z5.573.8956.0 Z5.573.9756.0 Z5.573.8656.0 Z5.573.9556.0	Z5.573.9056.0 Z5.573.9856.0 Z5.573.8756.0 Z5.573.9656.0

Universal foot, 23 mm wide

05.583.0053.0



Delivered as standard component where indicated

Cut-out for latching frames

Sheet metal: 2 \pm 0.05 mm thick



Housing size	L1 (mm)	L2 (mm)	L3 (mm)
40	101	106.5	96
64	127.8	134.4	122.8

Industrial Multipole Connector EMC hoods and housings for multipole connectors

revos Basic

Hood 10-/16-/24 pole Open-bottom housing 10-/16-/24 pole

Hood 6 pole Open-bottom housing 6 pole













Open-bottom housing

Picture only for

10-/16-/24 pole

Suited for: Multipole connector inserts revos BASIC revos FLEX

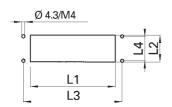






Number of poles	Thread	Cable gland type	L	W	Н	Stand. pack	Part no.	Part no.
Housing size 6 for			80	48	30.3	1		70.320.0638.0
multipole connectors	M 20	1 with thread	60	43	51		70.350.0645.1	
6pole + ground	M 25	1 with thread	60	43	51		70.353.0645.1	
single locking lever	M 32	1 with thread	60	43	70		73.353.0645.1	
Housing size 10 for			93	48	30.3	1		70.320.1038.0
multipole connectors	M 25	1 with thread	73	43	51		70.350.1045.1	
10pole + ground	M 32	1 with thread	73	43	70		73.353.1045.1	
double locking levers								
Housing size 16 for			113	48	30.3	1		70.320.1638.0
multipole connectors								
16pole + ground	M 32	1 with thread	93.5	43	62		70.353.1645.1	
double locking levers	M 32	1 with thread	93.5	43	76		73.353.4045.1	
Housing size 24 for			140	48	30.3	1		70.320.2438.0
multipole connectors	M 32	1 with thread	120	43	62		70.353.2445.1	
24pole + ground double locking levers	M 32	1 with thread	120	43	76		73.353.6445.1	

Mounting dimensions and cut-outs for open-bottom housings



Housing	Cut-ou	t (mm)	Mounting dimensions (mm)		
Housing size	L1	L2	L3	L4	
6	52	35	70	32	
10	65	35	83	32	
16	85,5	35	103	32	
24	112	35	130	32	

Cable gland for EMC hoods/housings

Z5.507.4821.0 M 20 Z5.507.5021.0 M 25 Z5.507.5221.0 M 32



EMC hoods and housings for multipole connectors



Multipole connectors function as an interface between the individual system components and influence the function of the entire system.

For this reason, Wieland Electric GmbH offers electromagnetic compatible (EMC) hoods and housings which help to maintain the function of the entire system.

In former times we had to cope with the danger of interrupted cable shielding whenever they were connected via multipole connectors. The electrical signals could not suffienctly be shielded against electromagnetic fields.

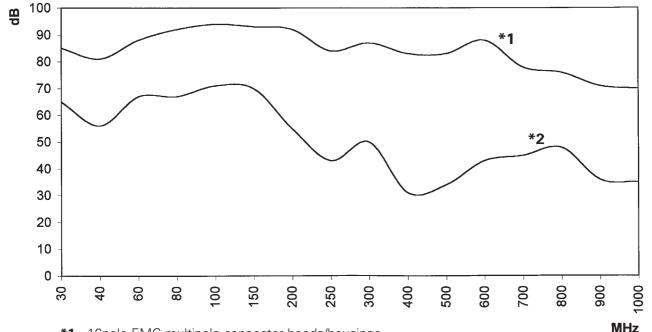
The solution:

- Contact is made by putting an open shield over a special EMC cable gland for ground connection between the cable and the connector.
- ☐ Contact between the hood and the housing via a HF gasket (silver-plated contact zone).

 When the hood is plugged together with the housing, the unit forms a maze which guarantees the EMC protection on this interface.
- By means of screws, the housing is mounted to a metal partition plate for ground connection.
- Highly conductive surface plating of the EMC hoods and housings for improved contacting on the individual interfaces.

System advantages:

- → High screening attenuation
- → 360° HF overall protection
- Highly conductive surface of the hoods and housings
- 6/10/16/24pole hood and housing sizes in high and flat design
- Different hood and housing variants
- Degree of protection IP 65 with closed locking levers



- *1 16pole EMC multipole connector hoods/housings
- *2 16pole standard multipole connector hoods/housings with EMC cable glands

Industrial multipole connectors

revos POWER

Technical information

- Approvals
- Applicable standards
- Contact inserts

Number of poles Rated current Rated voltage Screw connection

Number of poles Rated current Rated voltage Screw connection

Number of poles Rated current Rated voltage

Screw connection

Nominal voltage accord. to UL Nominal voltage accord. to CSA Degree of pollution Temperature range

Multipole adapters

Number of poles Rated current Rated voltage Screw connection

Nominal voltage accord. to UL Nominal voltage accord. to CSA Degree of pollution Temperature range

■ Contacts

Material Surface Surface

Hoods and housings

Material Surface Locking levers Gaskets

Temperature range Degree of protection accord. to DIN EN 60 529

with latched locking levers with appropriate cable glands

UL, CSA, SEV, MEEI IEC 61 984

6 + ground /6 + ground 35 A /35 A / 690 V 400 V $2.5 - 6 \text{ mm}^2$ $/2.5 - 6 \text{ mm}^2$ 14 - 8 AWG /14 - 8 AWG

4/6 + ground/ 6/6 + ground 35/16 A /40/16 A

690 V /690/400 V + 400/230 V $4 \times 2.5 - 6 \text{ mm}^2$ $/ 6 \times 4 - 10 \text{ mm}^2$ 4 x 14 - 8 AWG / 6 x 12 - 6 AWG $6 \times 1 - 2.5 \text{ mm}^2 / 6 \times 1 - 2.5 \text{ mm}^2$ 6 x 16 - 12 AWG / 6 x 16 - 12 AWG

3/3/6 + ground / 4/2 + ground

/ 82/16 A (70/16 A CSA) 100/40/16 A

690/400 V /400 V

400/230 V

 $3 \times 10 - 25 \text{ mm}^2 / 4 \times 6 - 16 \text{ mm}^2$ /4 x AWG 10 - 4 3 x AWG 8 - 2 $3 \times 4 - 10 \text{ mm}^2$ $/ 2 \times 1 - 2.5 \text{ mm}^2$ 3 x AWG 12 - 6 / 2 x AWG 16 - 12

 $6 \times 1 - 2.5 \text{ mm}^2$ 6 x AWG 16 - 12

600 V 600 V

6 + ground /6 + ground35 A /35 A /690 V 400 V $2.5 - 6.0 \text{ mm}^2$ $/2.5 - 6.0 \text{ mm}^2$ /14 - 8 AWG 14 - 8 AWG

600 V 600 V

-40 to +110 °C

copper alloy tin-plated silver-plated

die cast aluminum alloy silver gray, silicon-free finish zinc-plated steel

-40 to +110 °C

IP 55 IP 65

690/400 V /690 V

-40 to +110 °C

/4 + ground

/ 690/400 V

 $/6 - 16 \text{ mm}^2$

/10 - 4 AWG

/82 A

 $/4 \times 2.5 - 6.0 \text{ mm}^2 / 6 \times 1.5 - 4 \text{ mm}^2$ /4 x 14 - 8 AWG / 6 x 16 - 12 AWG



Industrial multipole connectors, female and male inserts, multipole adapters, hoods and housings with single locking levers, 6pole

revos POWER



400 V, 35 A IEC 61 984

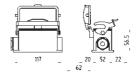
Degrees of protection: IP 55; IP 65 with the appropriate cable glands

		Cross section	Approvals	Wire strip leng	yth Material	Stand. pack
C C C	Female insert	2.5 – 6 mm ² 14 – 8 AWG) ©017 (5)	10 mi	m silver-plate	ed 10
Screw connection	Male insert	2.5 – 6 mm ² 14 – 8 AWG	⊕@ #€	9 10 mi	m silver-plate	ed 10
Barrie	Female insert, ground right	2.5 – 6 mm ² 14 – 8 AWG	⊕® #€	12 mi	m silver-plate	ed 10
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Female insert, ground left	14 - 6 AVVG	⊕® #€	12 mi	m silver-plate	ed 10
Screw connection Multipole adapters	Male insert, ground right	2.5 – 6 mm ² 14 – 8 AWG	⊕® #€	12 mi	m silver-plate	ed 10
Contract of the second	Male insert, ground left	IT OAVVG	@17	9 12 mi	m silver-plate	ed 10
Number of poles Thread Housing size16 M 25 for multipole connectors	Cable gland type 0 with cable gland 1 with thread 2 with intermediate support				\$	Stand. pack
6pole + ground	3 with strain relief					
		Open-bottom	l h	Closed-bottom nousing with two narrow-side entry cable glands	Closed bottom housing with a side entry cabl the left	one narrow-
		Open-bottom	l h	nousing with two narrow-side entry	housing with o	one narrow-
Number of poles Thread	Cable gland type Stand. pack	Open-bottom Part no.	P V C	nousing with two narrow-side entry	housing with o	one narrow-



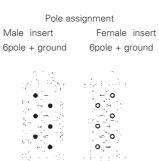


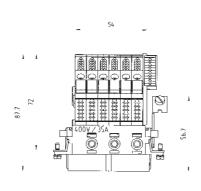




6pole + ground Part no. 70.200.0653.0 70.210.0653.0

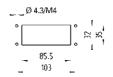




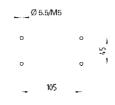


Dimensions of the multipole adapters

Mounting dimensions and cut-outs for open-bottom housings



Mounting dimensions for closed-bottom housings





Hood



Hood

|--|

|--|

71.352.1635.0 71.352.1635.1 71.352.1635.2 71.352.1635.3

Hood

Part no.	Part no.
71.350.1635.0 71.350.1635.1 71.350.1635.2 71.350.1635.3	71.351.1635.0 71.351.1635.1 71.351.1635.2 71.351.1635.3
Closed-bottom housing with two bottom entry cable glands	Open-bottom housing with protective cover

Part no.	

71.333.1635.0

71.333.1635.1

Part no.



71.325.1628.0



71.340.1635.0

71.340.1635.1





71.341.1635.0

71.341.1635.1







Part no.	Part no.
71.342.1635.0 71.342.1635.1	71.343.1635.0 71.343.1635.1

Industrial multipole connectors, female and male inserts, multipole adapters, hoods and housings with double locking levers, 6pole

revos Power



400 V, **35 A** IEC 61 984

Degree of protection: IP 55; IP 65 with the appropriate cable glands

		Cross section	Approvals	Wire strip lengt	h Material S	Stand. pack
C 2 2 4	Female insert	2.5 – 6 mm ² 14 – 8 AWG	⊕®! #	⊕ 10 mi	m silver-plate	d 10
Screw connection	Male insert	2.5 – 6 mm ² 14 – 8 AWG	⊕	€ 10 mi	m silver-plate	d 10
	Female insert, ground right	2.5 – 6 mm ² 14 – 8 AWG	⊕® #€	12 mr	m silver-plate	d 10
Screw connection	Female insert, ground left	14 0 700	@12	-,	m silver-plate	d 10
Multipole adapters	Male insert, ground right	2.5 – 6 mm ² 14 – 8 AWG	⊕® ₩\$	-,	m silver-plate	d 10
and the second	Male insert, ground left		⊕® ₩\$	⊕ 12 mr	m silver-plate	d 10
Number of poles Thread Housing size16 M 25 for multipole connectors 6pole + ground	Cable gland type 0 with cable gland 1 with thread 2 with intermediate support				\$	Stand. pack
opera i greanu	3 with strain relief	Open-bottom	housing	Closed-bottom	Closed bottom	
				housing with two narrow-side entry cable glands	housing with c side entry cabl the left	ne narrow-
				with two narrow-side entry cable glands	housing with a side entry cable the left	ne narrow-
Number of poles Thread	Cable gland type Stand. pack	Part no.		with two narrow-side entry	housing with o side entry cabl	ne narrow-







70.325.1628.0

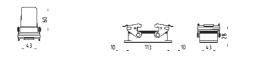
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70.340.1635.1

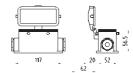
70.333.1635.0

70.333.1635.1









6pole + ground	Pole assign Male insert 6pole + ground 6	ment Dimer Female insert pole + ground	nsions of the multipole adapte	and cut-or	dimensions uts for om housings
	opolo i grodina	polo i grodina	- · · · -	Ø4	.3/M4
Part no.	22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		°	35 32
70.200.0653.0		2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2		-	85.5 _ 103 _
70.210.0653.0				bottom ho	
70.005.0653.0	_	,	4I.IP	Øŧ	5.5/M5
70.000.0653.0				0	9 1
70.015.0653.0					105
70.010.0653.0				~	_
Hood with cable gland	Hood with cable gland	Hood with cable gland	Hood with cable gland and locking levers	Hood with cable gland	Hood with cable glands and locking levers
	O				
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
70.350.1635.0 70.350.1635.1 70.350.1635.2 70.350.1635.3	70.351.1635.0 70.351.1635.1 70.351.1635.2 70.351.1635.3	70.352.1635.0 70.352.1635.1 70.352.1635.2 70.352.1635.3	70.355.1635.0 70.355.1635.1 70.355.1635.2 70.355.1635.3	70.356.1635.0 70.356.1635.1 70.356.1635.2 70.356.1635.3	70.357.1635.0 70.357.1635.1 70.357.1635.2 70.357.1635.3
Closed-bottom housing with two bottom entry cable glands	Open-bottom housing with protective cover	Closed-bottom housing with two narrow-side entry cable glands and protective cover	Closed-bottom housing with narrow-side entry cable gland on the left and protective cover	Closed-bottom housing with narrow-side entry cable gland on the left and protective cover	Closed-bottom housing with bottom entry cable gland and protective cover
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.

70.341.1635.0

70.341.1635.1

70.342.1635.0

70.342.1635.1

70.343.1635.0

70.343.1635.1

Industrial multipole connectors, female and male inserts, multipole adapters, hoods and housings with single locking levers, 6pole

revos Power



600 V UL/CSA

690 V, 35 A IEC 61 984

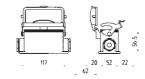
Degrees of protection: IP 55; IP 65 with the appropriate cable glands

		Cross section	Approvals	Wire strip lengt	h Material S	Stariu. pack
10.00	Female insert	2.5 – 6 mm ² 14 – 8 AWG	€90 18(€)	10 mi	m silver-plate	d 10
Screw connection	Male insert	2.5 – 6 mm ² 14 – 8 AWG	€910 ⊕€	10 mi	m silver-plate	d 10
<i>(</i> 2000)	Female insert, ground right	2.5 – 6 mm ² 14 – 8 AWG	€90 18€	12 mr	m silver-plate	d 10
Screw connection	Female insert, ground left	14 OAVG	9	12 mr	m silver-plate	d 10
Multipole adapters	Male insert, ground right	2.5 – 6 mm ² 14 – 8 AWG	9	•	m silver-plate	d 10
	Male insert, ground left		⊕® #€	12 mr	m silver-plate	d 10
Number of poles Thread Housing size16 M 25 for multipole connectors 6pole + ground	Cable gland type 0 with cable gland 1 with thread 2 with intermediate support				\$	Stand. pack 1
Housing size 16 M 25	0 with cable gland 1 with thread	Open-bottom l	ho	losed-bottom ousing ith two narrow-side entry able glands	Closed bottom housing with a side entry cabl the left	1 none narrow-
Housing size 16 M 25 for multipole connectors	0 with cable gland 1 with thread 2 with intermediate support	Open-bottom	ho	ousing rith two narrow-side entry	Closed bottom housing with o side entry cabl	1 none narrow-
Housing size 16 M 25 for multipole connectors	0 with cable gland 1 with thread 2 with intermediate support	Open-bottom I	hcw	ousing rith two narrow-side entry	Closed bottom housing with o side entry cabl	1 none narrow-









6pole + ground

Part no. 72.200.0653.0

72.210.0653.0

72.005.0653.0

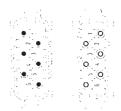
72.000.0653.0

72.015.0653.0

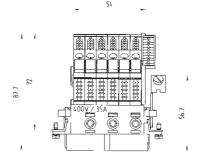
72.010.0653.0

Pole assignment

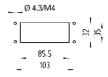
Male insert 6pole + ground Female insert 6pole + ground



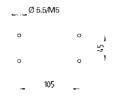
Dimensions of the multipole adapters



Mounting dimensions and cut-outs for open-bottom housings



Mounting dimensions for closedbottom housings



Hood with cable gland



Hood with cable gland



Hood with cable gland





1			8
		1	
		1.	
		10	

Closed-bottom housing with two bottom entry cable glands



71.333.1635.0

71.333.1635.1

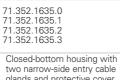
Open-bottom housing with protective cover

71.351.1635.0 71.351.1635.1 71.351.1635.2 71.351.1635.3

Part no.



71.325.1628.0





	Can be
Part no.	
71.340.1635.0	

71.340.1635.1





Part no.

71.341.1635.0

71.341.1635.1



on the left and protective



Part no.	Part no.
71 342 1635 0	71.343.1635.0
71.342.1033.0	71.343.1033.0
71.342.1635.1	71.343.1635.1

Industrie multipole connectors, female and male inserts, multipole adapters, hoods and housings with double locking levers, 6pole

revos Power



690 V, 35 A IEC 61 984

Degrees of protection: IP 55; IP 65 with the appropriate cable glands

		Cross section	n Approvals	Wire strip length	Material	Stand. pack
2 2 2	Female insert	2.5 – 6 mm 14 – 8 AW	a - • •	10 mm	tin-plated	10
Screw connection	Male insert	2.5 – 6 mm 14 – 8 AW		10 mm	tin-plated	10
	Female insert, ground right	2.5 – 6 mm 14 – 8 AW	9 9 9	12 mm	tin-plated	10
Screw connection	Female insert, ground left	14 - 8 AVV	@ @@ #@	12 mm	tin-plated	10
Multipole adapte		2.5 – 6 mm 14 – 8 AW	G G	12 mm	tin-plated	10
	Male insert, ground left	14 0 ////	® ⊕® #®	12 mm	tin-plated	10
Number of notes Th	pad Cable cland type					Stand nack
Housing size 16	cad Cable gland type 25 0 with cable gland 1 with thread					Stand. pack
Housing size 16 for multipole connectors	, , , , , , , , , , , , , , , , , , ,					
	25 0 with cable gland 1 with thread 2 with intermediate support		housi with t	ng wo narrow-side entry s	Closed bottor housing with side entry cab the left	n one narrow-
Housing size 16 Notes that the formultipole connectors 6pole + ground	25 0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief	Open-botto	housi with t cable	ng hywo narrow-side entry glands	Closed bottor housing with side entry cab the left	n one narrow-
Housing size 16 for multipole connectors	25 0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief		housi with t	ng hywo narrow-side entry glands	Closed bottor housing with side entry cab	n one narrow-

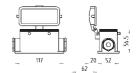












6pole	+	ground

Part no. 72.200.0653.0

72.210.0653.0

72.005.0653.0

72.000.0653.0

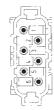
72.015.0653.0

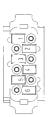
72.010.0653.0

Pole assignment

Male insert 6pole + ground

Female insert 6pole + ground

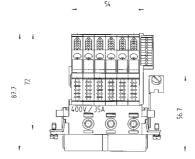




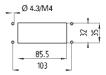
Hood

Part no.

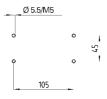
Dimensions of the multipole adapters



Mounting dimensions and cut-outs for open-bottom housings



Mounting dimensions for closedbottom housings



Hood

Hood







Hood with

locking levers

70.355.1635.0 70.355.1635.1



Hood with

Part no.

cover

70.356.1635.0 70.356.1635.1

70.356.1635.2 70 356 1635 3

locking levers



Part no.

70.357.1635.0 70.357.1635.1 70.357.1635.2 70.357.1635.3

Closed-bottom housing with

bottom entry cable gland

and protective cover



70.350.1635.0 70.350.1635.1 70.350.1635.2 70.350.1635.3

Closed-bottom

housing with two bottom entry cable glands



70.333.1635.0 70.333.1635.1



70.351.1635.0 70.351.1635.1 70.351.1635.2 70.351.1635.3 Open-bottom housing with protective cover



Part no. 70.325.1628.0



70.352.1635.0 70.352.1635.1 70.352.1635.2 70.352.1635.3 Closed-bottom housing with two narrow-side entry cable



Part no. 70.340.1635.0 70.340.1635.1



70.355.1635.2 70.355.1635.3 Closed-bottom housing with narrow-side entry cable gland on the left and protective cover



70.341.1635.0

70.341.1635.1

Part no.

70.342.1635.1

Closed-bottom housing with narrow-side entry cable gland

on the left and protective

Part no.



Part no. 70.342.1635.0 70.343.1635.0 70.343.1635.1

Industrial multipole connectors, female and male inserts, multipole adapters, hoods and housings with single locking levers, 4pole

revos Power



690 V/400 V, 82 A IEC 61 984

Degrees of protection: IP 55; IP 65 with the appropriate cable glands

Wire strip length Material Stand. pack

Approvals

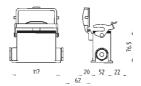
Cross section

				CIUSS SECTION	Appiovais	AAII 6 2011 FILIG	jui ivialeriai Stariu	i. pack
ā ā ī		Female insert		6 – 16 mm ² 10 – 4 AWG	901) 10 m	nm silver-plated	10
Screw con	nnection	Male insert		6 – 16 mm ² 10 – 4 AWG	BR	10 n	nm silver-plated	10
Number of poles	Thread	Cable gland type					Stand	I. pack
Housing size 16 for multipole connectors 4pole + ground	M 32	0 with cable gland 1 with thread 2 with intermediate suppo 3 with strain relief	ort					1
				Open-bottom	housing	Closed-bottom housing with two narrow-side entry cable glands	Closed bottom housing with one na side entry cable glad the left	arrow- nd on
					-1			
Number of poles	Thread	Cable gland type	Stand. pack	Part no.		Part no.	Part no.	
Housing size 16 for multipole connectors 4pole + ground	M 32	0 with cable gland 1 with thread		71.320.1628.0		76.334.4035.0 76.334.4035.1	76.335.4035.0 76.335.4035.1	
6		I					1	









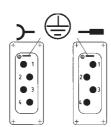
4pole + ground

Part no. 72.208.0453.0

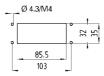
72.218.0453.0

Pole assignment

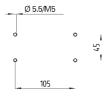
Female insert Male insert 4pole + ground 4pole + ground



Mounting dimensions and cut-outs for open-bottom housings



Mounting dimensions for closedbottom housings



Hood



Hood



76.353.4035.0 76.353.4035.1 76.353.4035.2 76.353.4035.3

Part no. 76.352.4035.0 76.352.4035.1 76.352.4035.2 76.352.4035.3

Closed-bottom housing with two bottom entry cable glands



76.337.4035.0

76.337.4035.1

Open-bottom housing with protective cover





Part no.	



71.325.1628.0





76.344.4035.0

76.344.4035.1







76.345.4035.0

76.345.4035.1

Closed-bottom housing with narrow-side entry cable gland

on the left and protective





76.346.4035.0

76.346.4035.1





Part no.	Part no.

76.347.4035.0

76.347.4035.1

Industrial multipole connectors, female and male inserts, multipole adapters, hoods and housings with double locking levers, 4/6pole

revos Power



690 V, 35/16 A IEC 61 984

Degrees of protection: IP 55; IP 65 with the appropriate cable glands

Wire strip length Material Stand. pack

Male insert 4 poles silver-plated 6 poles tip plated	14 – 8 AWG 1 – 2.5 mm ² 16 – 12 AWG	⊕® ₩ ૄ	10 mm	silver-plated	10
			7 mm		
·	2.5 – 6 mm ² 14 – 8 AWG 1.5 – 4 mm ² 16 – 12 AWG	•	12 mm 12 mm		10
Male insert, ground right 4 poles silver-plated 6 poles tin-plated 1	2.5 – 6 mm ² 14 – 8 AWG 1.5 – 4 mm ²	•		'	10
Cable gland type				Stand. pac	:k
0 with cable gland1 with thread2 with intermediate support3 with strain relief					1
	Open-bottom h	housir with to	g wo narrow-side entry	housing with one nari side entry cable gland	
			5		
Cable gland type Stand. pack	Part no.	Part no	. F	Part no.	
0 with cable gland 1 1 with thread 1	72.320.1628.0	72.330	.1635.0 7	72.331.1635.0	
	Cable gland type O with cable gland with thread with intermediate support with strain relief Cable gland type Stand. pack	A poles silver-plated 5 poles tin-plated Cable gland type 0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief Open-bottom h Cable gland type Open-bottom h Cable gland type Open-bottom h	Cable gland type 0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief Cable gland type Open-bottom housing Closed housin with the cable gland 1 with strain relief Cable gland type Open-bottom housing Closed housin with the cable gland 1 with 3 with strain relief Open-bottom housing Closed housin with the cable gland 1 with 3 with strain relief Open-bottom housing Closed housin with the cable gland type Table gland type Stand. pack 1 72.320.1628.0	A poles silver-plated 14 - 8 AWG 15 - 4 mm² 16 - 12 AWG 12 mm 12 mm 13 mm 14 mm² 15 - 4 mm² 16 - 12 AWG 15 mm² 10 mm 10 mm² 11 mm 11 mm 12 mm 12 mm 13 mm 14 mm² 15 mm² 12 mm 15 mm² 12 mm 15 mm² 12 mm 16 mm² 16 mm² 16 mm² 16 mm² 17 mm² 18 mm² 19 mm² 19 mm² 10 m	A poles silver-plated 12 mm silver-plated 15 - 4 mm² 16 - 12 AWG 16 - 12 AWG 17 mm silver-plated 18 mm silver-plated 19 mm tin-plated 10 mm tin-plated 10 mm tin-plated 11 mm tin-plated 12 mm tin-plated 12 mm tin-plated 13 mm tin-plated 14 mm tin-plated 15 mm tin-plated 16 mm tin-plated 17 mm tin-plated 18 mm tin-plated 19 mm tin-plated 10 mm tin-plated

Cross section Approvals

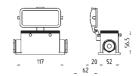












4/ 6pole + ground

Part no. 72.205.1053.0

72.215.1053.0

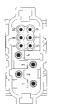
72.107.1053.0

72.117.1053.0

Pole assignment

Male insert 4/6pole + ground

Female insert 4/6pole + around



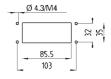


Dimensions of the multipole adapters

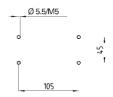




Mounting dimensions and cut-outs for open-bottom housings



Mounting dimensions for closed-bottom housings



Hood



Part no.

72.352.1635.0 72.352.1635.1 72.352.1635.2 72.352.1635.3



Hood with locking levers

Part no.

72.355.1635.0 72.355.1635.1



Hood with locking levers

Part no.

72.357.1635.0 72.357.1635.1 72.357.1635.2 72.357.1635.3



Part no.

72.350.1635.0	
72.350.1635.1	
72.350.1635.2	
72.350.1635.3	

Closed-bottom housing with two bottom entry cable glands



Open-bottom housing with protective cover



72.325.1628.0



72.355.1635.2 72.355.1635.3 Closed-bottom housing with two narrow-side entry cable



Part no. 72.340.1635.0

72.340.1635.1

Closed-bottom housing with narrow-side entry cable gland on the left and protective cover

Part no.

72.341.1635.0

72.341.1635.1

cover

Part no.

72.342.1635.0

72.342.1635.1

Closed-bottom housing with narrow-side entry cable gland bottom entry cable gland on the left and protective and protective cover

72.343.1635.0

72.343.1635.1

Closed-bottom housing with

Part no.

Industrial multipole connectors, female and male inserts, multipole adapters, hoods and housings with single locking levers, 4/6pole

revos Power



690 V, 35/16 A IEC 61 984

Degrees of protection: IP 55; IP 65 with the appropriate cable glands

Screw connection	Female insert 4 poles silver-plated 6 poles tin-plated	2.5 – 6 mm ²	€91/8 (€)			
	<u> </u>	14 – 8 AWG 1 – 2.5 mm ² 16 – 12 AWG		, 10 m 7 m		10
	Male insert 4 poles silver-plated 6 poles tin-plated	2.5 – 6 mm ² 14 – 8 AWG 1 – 2.5 mm ² 16 – 12 AWG	⊕01 €	5 10 m 7 m		10
	Female insert, ground right 4 poles silver-plated 6 poles tin-plated	2.5 – 6 mm ² 14 – 8 AWG 1.5 – 4 mm ² 16 – 12 AWG	1	12 m		10
Multipole adapter 500 V, 35/16 A 8 kV/3 VDE 0110	Male insert, ground right 4 poles silver-plated 6 poles tin-plated	2.5 – 6 mm ² 14 – 8 AWG 1.5 – 4 mm ² 16 – 12 AWG	(1)	12 m		10
· ·	Cable gland type				Stand. p	
Housing size 16 M 25	0 with cable gland				Otana. p	1
10 multipole connectors	1 with thread2 with intermediate support3 with strain relief					
		Open-bottom	housing	Closed-bottom housing with two narrow-side entry cable glands	Closed bottom housing with one na side entry cable glad the left	arrow- nd on
			1),
				Don't no	Doub in a	
Number of poles Thread C	Cable gland type Stand. pack	Part no.		Part no.	Part no.	



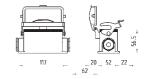








Dimensions of the multipole adapters



4/6pole + ground

Part no. 72.205.1053.0

72.215.1053.0

72.107.1053.0

72.117.1053.0

Pole assignment

Male insert 4/6pole + ground

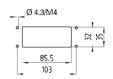
Female insert 4/6pole + ground



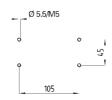
(shown in mm)



Mounting dimensions and cut-outs for open-bottom housings (shown in mm)



Mounting dimensions for closed-bottom housings



Hood



Hood



Part no.	
77.350.1635.0	
0-0 400- 4	

77.350.1635.1 77.350.1635.2 77.350.1635.3

Closed-bottom housing with two bottom entry cable glands



77.333.1635.0

77.333.1635.1

Open-bottom housing with protective cover

77.352.1635.0 77.352.1635.1 77.352.1635.2 77.352.1635.3



Part no. 77.325.1628.0

Closed-bottom housing with two narrow-side entry cable glands and protective cover



Part no.	

77.340.1635.0

77.340.1635.1

cover

Closed-bottom housing with narrow-side entry cable gland

on the left and protective

Part no. 77.341.1635.0 77.341.1635.1





Closed-bottom housing with bottom entry cable gland and protective cover

Part no.	Part no.
77.342.1635.0	77.343.1635.0
77.342.1635.1	77.343.1635.1

Industrial multipole connectors, female and male inserts, multipole adapters, hoods and housings, 6/6pole

revos Power



Multipole connectors 40/16 A, with mixed contacts

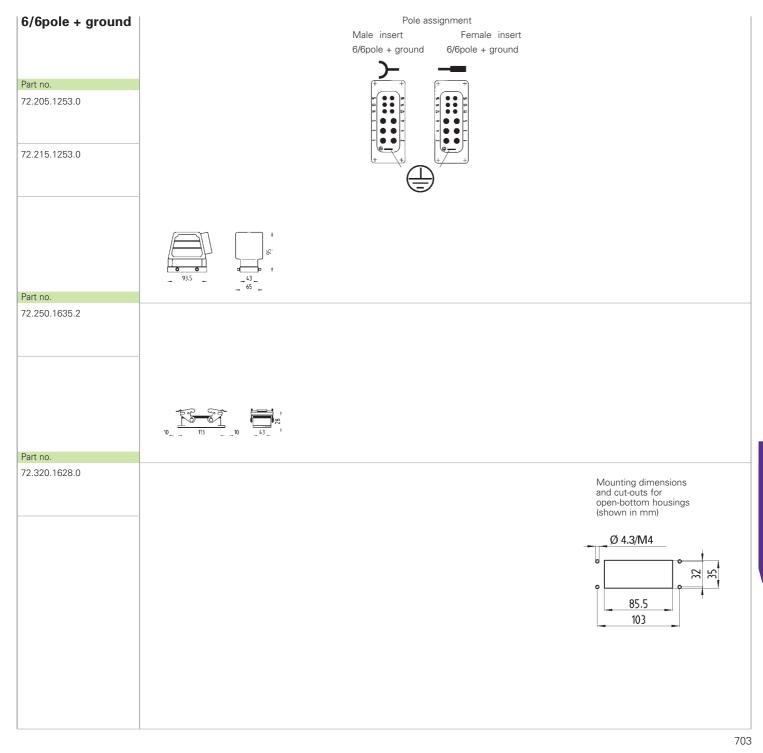
600 V UL/CSA

690/400 V, 40 A IEC 61 984

400/230 V, 16 A IEC 61 984

Degrees of protection: IP 55; IP 65 with the appropriate cable glands

		Rated current	Cross section	Approvals	Wire strip length	Material Star	nd. pack
Screw connection	Female insert 6 poles 6 poles		mm² 12 – 6 AWG mm² 16 – 12 AWG	@ <i>L</i> F (\$)	10 mm 7 mm	silver-plated tin-plated	10
MARIET	Male insert 6 poles 6 poles		mm² 12 – 6 AWG mm² 16 – 12 AWG	@ LF(\$)	10 mm 7 mm	silver-plated tin-plated	10
Hood with intermediate support							
Number of poles	Thread	Cable gland type				Star	nd. pack
Housing size16 for multipole connectors 6/6pole + ground	M 40	2 with interme	ediate support				1
Open-bottom housing							
Number of poles						Star	nd. pack
Housing size16 for multipole connectors 6/ 6pole + ground							1
702							



Industrial multipole connectors, female and male inserts, multipole adapters, hoods and housings, 3/3/6pole

revos Power



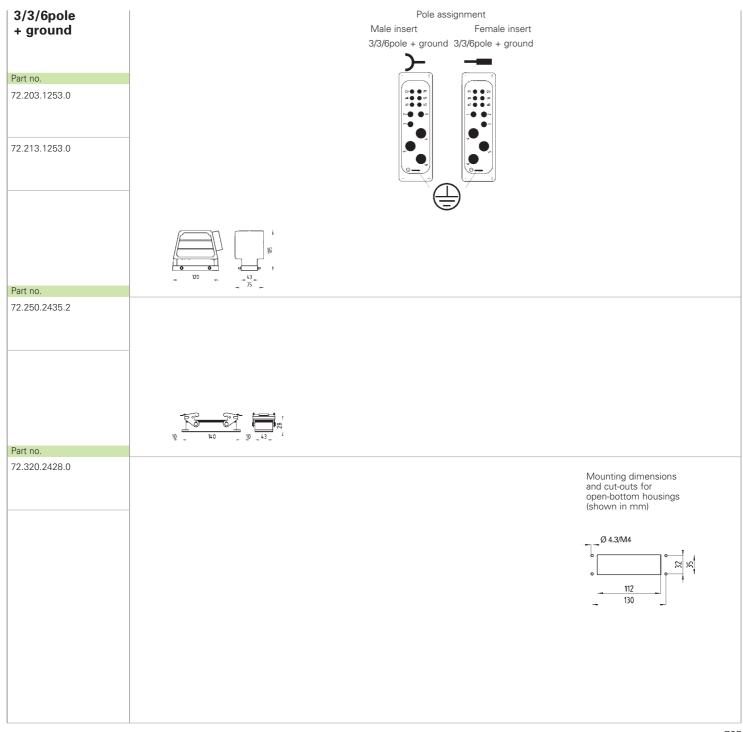
Multipole connectors 100/40/16 A, with mixed contacts

600 V UL/CSA 690/400 V

100 A IEC 61 984 **40 A** IEC 61 984 **16 A** IEC 61 984

Degrees of protection: IP 55; IP 65 with the appropriate cable glands

	Ra	ted currer	nt	Cross section	Approvals	Wire strip length	Material	Stand.	pack
Screw connection	Female insert 3 poles 3 poles 6 poles	100 A 40 A 16 A	10 – 25 mm ² 4 – 10 mm ² 1 – 2.5 mm ²	8 – 2 AWG 12 – 6 AWG 16 – 12 AWG	@1	14 mm 10 mm 7 mm	silver-pla silver-pla tin-plated	ted	10
THE RESERVE	Male insert 3 poles 3 poles 6 poles	100 A 40 A 16 A	10 – 25 mm ² 4 – 10 mm ² 1 – 2.5 mm ²	8 – 2 AWG 12 – 6 AWG 16 – 12 AWG	@ 1R(2)	14 mm 10 mm 7 mm	silver-pla silver-pla tin-plated	ted	10
Hood with intermediate support									
Number of poles	Thread		e gland type					Stand.	pack
Housing size 24 for multipole connectors 3/3/6pole + ground	M 50	2 w	rith intermediate	support					1
Open-bottom housing									
Number of poles								Stand.	pack
Housing size 24 for multipole connectors 3/3/6pole + ground									1



Industrial multipole connectors, female and male inserts, hoods and housings with single locking levers, 4/2pole

Rated current

4 poles 82 A (70 A CSA) 6 – 16 mm² 10 – 4 AWG

Female insert

revos Power



Cross section



Approvals

B*L***R**

Multipole connectors 82/16 A, with mixed contacts

600 V UL/CSA

690 V 82 A IEC 61 984 (**70 A** CSA)

100 V 16 A IEC 61 984

Degrees of protection: IP 55; IP 65 with the appropriate cable glands

15 mm

Wire strip length Material Stand. pack

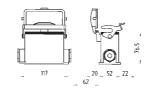
silver-plated

	2 poles 16 A 1 – 2.5 mm ² 16 – 12 AW	G 9 mm	tin-plated
Screw connection	Male insert 4 poles 82 A(70 A CSA) 6 – 16 mm² 10 – 4 AW 2 poles 16 A 1 – 2.5 mm² 16 – 12 AW	9 mm	11 silver-plated tin-plated
Number of noles Thread	Cable gland type		Stand nac
Housing size 16 M 32 for multipole connectors	Cable gland type 0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief		
Housing size 16 M 32 for multipole connectors	0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief	housing housing with two narrow-side entry s	Closed bottom
·	0 with cable gland 1 with thread 2 with intermediate support 3 with strain relief	housing with two narrow-side entry cable glands	nousing with one narrow side entry cable gland or





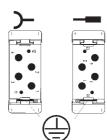




4/2pole + ground

Male insert 4/2pole + ground

Pole assignment Female insert 4/2pole + ground

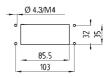


Part no.

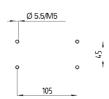
72.205.0653.0

72.215.0653.0

Mounting dimensions and cut-outs for open-bottom housings (shown in mm)



Mounting dimensions for closed-bottom housings (shown in mm)



Hood

Hood

Part no.





With Hind
Part no.

rait iio.	
76.353.4035.0 76.353.4035.1 76.353.4035.2	
76.353.4035.2	

Closed-bottom housing with two bottom entry cable glands



Part no.
76.337.4035.0

76.337.4035.1

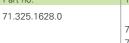
Open-bottom housing with protective cover

76.354.4035.0 76.354.4035.1 76.354.4035.2 76.354.4035.3



Part no.





Closed-bottom housing with two narrow-side entry cable glands and protective cover

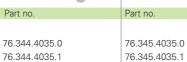


2	
Part no.	





















76.346.4035.0

76.346.4035.1

cover



Closed-bottom housing with narrow-side entry cable gland

on the left and protective





Closed-bottom housing with bottom entry cable gland

Part no.
76.347.4035.0
76.347.4035.1

Industrial multipole connectors, female and male inserts, hoods and housings with double locking levers, 4/2pole

Rated current

revos Power



Cross section

Approvals

Multipole connectors 82/16 A,

600 V UL/CSA

690 V 82 A IEC 61 984 (70 A CSA)

400 V 16 A IEC 61 984

Degrees of protection: IP 55; IP 65 with the appropriate cable glands

Wire strip length Material Stand. pack

Screw con	nnection	Female insert 4 poles 82 A (70 A CS 2 poles 16	SA) 6 – 16 mm ² SA 1 – 2.5 mm ²		® 1R	15 n 9 n		10
Screw connection		Male insert 4 poles 82 A (70 A CS 2 poles 16	SA) 6 – 16 mm ² S A 1 – 2.5 mm ²	10 – 4 AWG 16 – 12 AWG	916	15n 9 n	'	10
Number of poles	Thread	Cable gland type					Stan	ıd. pack
Housing size16 for multipole connectors 4/2pole + ground	M 32	0 with cable gland 1 with thread 2 with intermediate su 3 with strain relief	upport					1
				Open-bottom	housing	Closed-bottom housing with two narrow-side entry cable glands	Closed bottom housing with one side entry cable gl the left	narrow- land on
Number of poles	Thread	Cable gland type	Stand. pack	Part no.		Part no.	Part no.	
Housing size 16	Tilleau	Cable gland type	Stanu. pack	70.320.1628.0		Tare 110.	Tartifo.	
for multipole connectors 4/2pole + ground	M 32	0 with cable gland 1 with thread	1	75.520.1620.0		73.334.4035.0 73.334.4035.1	73.335.4035.0 73.335.4035.1	
8		,					<u> </u>	

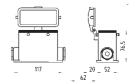












4/2pole + ground

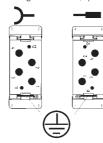
Part no. 72.205.0653.0

72.215.0653.0

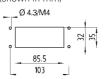
Pole assignment

Male insert 4/2pole + ground

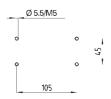
Female insert 4/2pole + ground



Mounting dimensions and cut-outs for open-bottom housings (shown in mm)



Mounting dimensions for closed-bottom housings (shown in mm)



Hood

Hood

Hood with locking levers

Hood with locking levers





cable glands

73.337.4035.0

73.337.4035.1

Closed-bottom housing with two bottom entry



Part no.	



73.352.4035.0 73.352.4035.1 73.352.4035.2 73.352.4035.3
Open-bottom housing with protective cover



Part no.







73.358.4035.3
Closed-bottom housing with
two narrow-side entry cable
alande and protective cover

73.358.4035.0 73.358.4035.1 73.358.4035.2



Part no.	
73.344.4035.0	

73.344.4035.1



73.357.4035.0 73.357.4035.1 73.357.4035.2 73.357.4035.3 Closed-bottom housing with narrow-side entry cable gland



Part no.

73.345.4035.0

73.345.4035.1

D



Closed-bottom housing with narrow-side entry cable gland Closed-bottom housing with bottom entry cable gland on the left and protective and protective cover



Part no.	Part no.
73.346.4035.0	73.347.4035.0
73.346.4035.1	73.347.4035.1

Industrial multipole connectors

revos MINI

Technical information

Approvals	ш	Ap	pro	val	S
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■ Applicable standards

■ Contact inserts

Rated current

Rated voltage

- 3pole + ground in plastic housing

- 3pole + ground in metal housing

- 4pole + ground

(plastic and metal housing)

- 7pole + ground in plastic housing

- 7pole + ground in metal housing

- 8pole

(plastic and metal housing)

UL, CSA, SEV IEC 61 984

10 A

400 V 250/400 V

400 V 250 V 50 V

50 V

Nominal voltage accord. to UL/CSA

- 3/4pole + ground (plastic and metal housing)

- 7pole + ground in plastic housing

- 7pole + ground in metal housing

- 8pole + ground (plastic and metal housing)

Pole configurations Screw connection Crimp connection Degree of pollution Temperature range

Contacts

Material Surface

Hoods and housings

Material

Surface Locking levers Gaskets Temperature range

Degree of protection accord. to

DIN EN 60 529

with latched locking levers with suitable cable gland

600 V 600 V

42 V

42 V

3, 4, 7 + ground, 8

 $0.5 - 2.5 \text{ mm}^2 / 22 - 12 \text{ AWG}$ $0.2 - 1.5 \text{ mm}^2 / 24 - 16 \text{ AWG}$

3

-40 to +110 °C

copper alloy

tin-plated, gold-plated,

silver-plated

die cast aluminum alloy

Thermoplast

gray

zinc-plated steel

NBR

-40 to +110 °C

IP 54 IP 65



Industrial multipole connectors 3/4/7pole + ground / 8pole

revos MINI



600 V UL/CSA

250 V, 10 A IEC 61 984

Degrees of protection: IP 54; IP 65 with the appropriate cable glands

230 V, 10 A IEC 61 984	Degrees of protection. IF 94, IF 99 with the appropria		
	Cross section	1	th Material Stand. pack
Screw connection	Female insert 0.5 – 2.5 mm 3pole 18 – 16 AWG UI 4pole 22 – 12 AWG UI 3-/4pole 22 – 12 AWG CSA	💲* for 3 pole	m tin-plated (3pole) 10 silver-plated (4pole)
	Male insert 0.5 – 2.5 mm 3pole 18 – 16 AWG UL 4pole 22 – 12 AWG UL 3-/4pole 22 – 12 AWG CSA	for 3 pole	m tin-plated (3pole) 10 silver-plated (4pole)
Crimp connection	Female insert 0.2 – 1.5 mm without crimp contacts 18 – 16 AWG UL 24 – 16 AWG CSA		m 10
	Male insert 0.2 – 1.5 mm without crimp contacts 18 – 16 AWG UL 24 – 16 AWG CSA		m 10
Thread size		Cable gland type	Material Stand. pack
48 M 20	Hood, angled	0 with cable gland 1 with thread 1 with thread	Metal 10 Metal 10 Plastic 10
M 20	Hood, straight	0 with cable gland 1 with thread 1 with thread	Metal 10 Metal 10 Plastic 10
M 20	Hood, with clip for cable to cable couplings	with complete cable gland with thread with thread	Metal 10 Metal 10 Plastic 10
23	Open-bottom housing		Metal 10 Plastic 10
45.0	Open-bottom housing, angled		Metal 10 Plastic 10
M 20	Closed-bottom housings The closed-bottom housing in plastic material is supplied without gland	0 with cable gland 1 with thread 1 with thread	Metal 10 Metal 10 Plastic 10

Contact	s for crimp version	Ø mm ² AWG	Part no. Stand. pack	Ø mm² AWG	Part no. Stand. pack		
Female co	ontacts	0.2 - 0.56 mm ² 24 - 20 Reel contacts Single contacts 0.75 - 1.50 mm ² 18 - 16	02.124.0900.0 5000 02.124.0929.0 200	0.5 – 1.50 mm ² 24 – 20 Reel contacts Single contacts	gold-plated 02.124.1400.0 5000 02.124.1429.0 200		
Male cont	tacts	Reel contacts Single contacts	02.124.1000.0 5000 02.124.1029.0 200				
		0.2 – 0.56 mm ² 24 – 20 Reel contacts Single contacts 0.75 – 1.50 mm ² 18 – 16	05.544.0900.0 5000 05.544.0929.0 200	0.5 – 1.50 mm ² 20 – 16 Reel contacts Single contacts	05.544.1400.0 5000 05.544.1429.0 200		
	1 1 1 1	Reel contacts Single contacts	05.544.1000.0 5000 05.544.1029.0 200	Crimping tool Crimping die "E"	95.101.0800.0 1 05.502.2400.0 1		
				Contact positioner "2" Extraction	05.502.3200.0 1		
3pole + ground	4pole + ground	7pole + ground	8pole	tool	05.502.0000.0 1		
Plastic housing UL/CSA 400 V/4 kV, 10 A 600 V Metal housing 250 V/400 V/4 kV, 10 A 600V	Plastic housing UL/CSA	Plastic housing UL/CSA 250 V/4 kV, 10 A 600 V Metal housing 50 V/0,8 kV, 10 A 42 V	Plastic housing UL/CSA 50 V/0,8 kV, 10 A 42 V Metal housing 50 V/0,8 kV, 10 A 42 V	Accessories			
Part no.	Part no.	Part no.	Part no.	Part no.	Part no.		
73.300.0353.0	73.300.0453.0			5	01		
73.310.0353.0	73.310.0453.0			Cover with locking- bolts for housing and hood with locking levers	Cover with locking- bolts for housing and hood with locking levers		
		73.700.0753.0	73.700.0853.0	without gasket for male insert	with gasket for female insert		
		73.710.0753.0	73.710.0853.0	Plastic 07.417.6753.0 Metal 07.417.6729.0	Plastic 07.417.6853.0 Metal 07.417.6829.0		
70.050.0700.0	70.050.0700.0	70.050.0700.0	70.050.0700.0				
76.350.0736.0 76.350.0736.1	76.350.0736.0 76.350.0736.1	76.350.0736.0 76.350.0736.1	76.350.0736.0 76.350.0736.1				
76.350.0760.1	76.350.0760.1	76.350.0760.1	76.350.0760.1				
76.352.0736.0	76.352.0736.0	76.352.0736.0	76.352.0736.0				
76.352.0736.1	76.352.0736.1	76.352.0736.1	76.352.0736.1				
76.352.0760.1	76.352.0760.1	76.352.0760.1	76.352.0760.1				
76.372.0736.0	76.372.0736.0	76.372.0736.0	76.372.0736.0				
76.372.0736.1	76.372.0736.1	76.372.0736.1	76.372.0736.1				
76.372.0760.1	76.372.0760.1	76.372.0760.1	76.372.0760.1				
76.320.0729.0	76.320.0729.0	76.320.0729.0	76.320.0729.0				
76.320.0753.0	76.320.0753.0	76.320.0753.0	76.320.0753.0				
76.321.0729.0	76.321.0729.0	76.321.0729.0	76.321.0729.0	77			
76.321.0753.0	76.321.0753.0	76.321.0753.0	76.321.0753.0	22	Mounting dimensions and cut-outs for open-bottom housings (shown in mm)		
76.322.0736.0	76.322.0736.0	76.322.0736.0	76.322.0736.0				
76.322.0736.1 76.322.0760.1	76.322.0736.1 76.322.0760.1	76.322.0736.1 76.322.0760.1	76.322.0736.1 76.322.0760.1	† 			

Industrial multipole connectors

revos HD

Technical information

Approvals

■ Applicable standards

■ Contact inserts

Rated current Rated voltage

Nominal voltage accord. to UL Nominal voltage accord. to CSA

Pole configurations Crimp connection

Degree of pollution

Temperature range

■ Multipole adapter Rated current

Rated voltage

Nominal voltage accord. to UL Nominal voltage accord. to CSA

Pole configurations
Screw connection

Degree of pollution

Temperature range

Contacts

Material Surface

■ Hoods and housings

Material

Surface Locking levers

Gaskets

Temperature range Degree of protection accord. to

DIN EN 60 529

with latched locking levers with suitable cable gland

UL, CSA, MEEI, SEV

IEC 61 984, DIN EN 175301-801

10 A 250 V 600 V 600 V

15, 25, 40, 64pole

0.2 - 1.5 mm² / 24 - 16 AWG

3

-40 to +110 °C

10 A 250 V 600 V 600 V

40, 64pole + ground 0.5 - 4.0 mm² / 20 - 14 AWG

3

-40 to +110 °C

copper alloy

tin-plated, gold-plated, silver-plated

die cast aluminum alloy

Thermoplast

silver gray, silicon-free finish

zinc-plated steel

NBK

−40 to +110 °C

IP 55 IP 65



High density multipole connectors according to DIN EN 175301-801

revos HD



System description

- ☐ For use in machine construction, control and switchgear building
- ☐ Reliable connector elements for power and control current lines
- Outstanding feature: a robust die cast aluminum
- Protection of the internal contactinserts against mechanical and hazardous industrial influences
- According to EN 60529 and IEC 60 529, the interlocked hoods and housings provide the following degrees of protection:
 - IP 65 (dust ingress and jet-water) IP 55 (dust deposit and splashwater)
- High contact density



Multipole adapter

- Space-saving connection element for heavy industrial multipole connectors
- Consists of: Multipole connector, contact insert and attached feedthrough terminal
- ☐ Multipole adapters are available with female or male connector inserts
- Provided as preassembled unit which can be mounted to the control cabinet wall
- ☐ Easy handling: slide the multipole adapter to the housing
- ☐ TOP connection design also available

- ☐ Clearly identified and easily accessible clamping points
- ☐ The angled connection zone and the TOP connection facility enable clamping and testing of all connections even when the components are plugged together
- ☐ Each connection can be marked with 4 or. 6 digits

Further benefits:

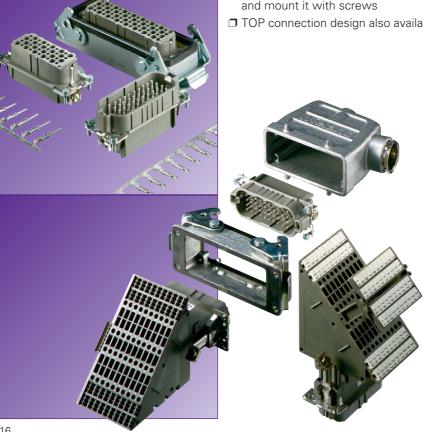
- ☐ Safe and time-saving wiring
- ☐ Testing is possible even when the components are plugged together, meaning that the power circuit need not be interrupted for testing
- ☐ Small-sized components helpto reduce control cabinet space
- Potential commoning due to an insulated jumper bar
- Variable marking facilities
- Coding by means of coding pieces and coding bolts
- No mismated connections

Female and male connector inserts

- ☐ Mounted in the direction of the power flow (female insert is live)
- ☐ No mismating due to the special design of the female and male inserts
- ☐ Consecutive numbers both on the contact. and on the connection sides
- Mixed contacts possible
- Due to an integrated screwdriver guide, both electric and pneumatic screwdrivers can be used



- ☐ Snap-in crimp contacts for high density
- ☐ Corrosion-resistant due to gas-tight connections (cold welding)
- □ Constant feed through resistance
- Rapid mounting
- ☐ Crimp contacts safely latch into the female and male inserts
- ☐ flared, closed cable entries protect the female contacts against possible damaging
- Connected contacts can only be released with a special tool
- □ Reel contacts available for automatic crimping machines



revo









Latching frames (see page 674)

- ☐ Housing: contact inserts to be latched in sheet metal cut-out
- ☐ Hood: contact inserts available either with or without strain relief with/without locking mechanism
- No metal housings
- ☐ Cable to cable couplings with two hoods
- ☐ Multipole adapter with contact insert can be latched in sheet metal cut-out or mounted to a rail by means of a universal foot
- □ Technical information:

Female and male connector inserts

Screw connection: $2.5 \, \text{mm}^2$

12 AWG UL/CSA

Crimp connection: 0.5 - 4 mm²

20 - 12 AWG UL/CSA 40, 64

Number of poles: Rated voltage VDE: 250 V Rated voltage UL/CSA: 600 V Rated current: 10 A

Crimping machine

- Wire stripping and crimping in one step
- ☐ Manual infeed of the cable material
- Automatic stripping and crimping
- ☐ Infeed of the female and male contacts on reels $(0.2 - 1.5 \text{ mm}^2 / 24 - 16 \text{ AWG})$
- ☐ The machine can be used for various applications, as the tool inserts are exchanged easily
- Available tool inserts:
 - for ST 18-connectors
 - for industrial multipole connectors
 - for high density multipole connectors
 - ☐ The female and male contacts are available in cross sections between 0.2 mm² and 1.5 mm² 24 - 16 AWG
- ☐ Cross section is marked on the female and male contacts

For ordering see facts & DATA

Crimping tool

- Special crimping tool required for the high density Wieland contacts
- Interlock protects against inadvertant opening
- Contact positioner for female and male contacts available

For ordering see facts & DATA

Marking accessories

- ☐ 6digit marking tag carrier for open-bottom housings
- ☐ The connection points can be marked with single tags or via tear-off marking strips with 6 digits each

Material

Housing:

□ Hood/housing: die cast aluminum alloy, silicon-free finish, silver gray

Female and male connector inserts:

☐ Insulating parts made from fiberglass reinforced Polvamide (technical information: see facts & DATA)

DQS certificates for all product families

- ☐ Quality standard as per DIN ISO 9001
- ☐ in Development, Production, Assembly
- Continued control of the quality standards by means of regular internal and external quality audits
- Compatible with certificates of other countries:
- BSI Certificate, Great Britain
- SQS Certificate, Switzerland
- Aib-Vincotte Certificate, Belgium
- ÖQS Certificate, Austria

Note:

The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules.

The voltage ratings apply to the terminals in their intended application.

The official installation standards are to be followed. When the components are mounted into devices, the relevant device instructions apply

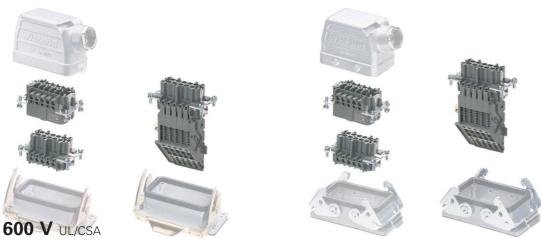
Special installation conditions of the customers are not considered. For more detailed information on the specific component characteristics see facts & DATA

4 194-



Industrial multipole connectors Female/male inserts and multipole adapters

revos HD



250 V, 10 A IEC 61 984

		Cross section	Approvals	Wire strip length	Material	Stand. pack
	Female insert without crimp contacts	0.2 – 1.5 mm ² 24 – 16 AWG	⊕® #€	4 mm		10
Crimp connection	Male insert without crimp contacts	0.2 – 1.5 mm ² 24 – 16 AWG	€918€	4 mm		10
Screw connection Multipole adapter	Female insert, ground right	0.5 – 2.5 mm ² 20 – 14 AWG	⊕ @#€	12 mm	tin-plated	d 4 2
	Female insert, ground left	0.5 – 2.5 mm ² 20 – 14 AWG	⊕® ₽€	12 mm	tin-plated	d 4 2
35.10	Male insert, ground right	0.5 – 2.5 mm ² 20 – 14 AWG	⊕® ₽€	12 mm	tin-plated	d 4 2
1 1	Male insert, ground left	0.5 – 2.5 mm ² 20 – 14 AWG	⊕® !	12 mm	tin-plated	d 4 2
718						

Contacts for crimp version

Female contacts

Male contacts



Crimping tool Crimping die "E" Contact positioner "2" Extraction tool

Ø mm²	AWG	Part no.	Stand	d. pack	Ø mm²	AWG	Part no.	Stand.	. pack
0.2 – 0.56 mm² Reel contacts Single contacts 0.75 – 1.50 mm Reel contacts Single contacts		tin-plated 02.124.0900 02.124.0929 02.124.1000 02.124.1029	9.0	5000 200 5000 200	0.5 – 1.50 mm² Reel contacts Single contacts	20 - 16	gold-plate 02.124.14 02.124.14	0.00	5000 200
0.2 – 0.56 mm ² Reel contacts Single contacts 0.75 – 1.50 mm Reel contacts Single contacts		05.544.0900 05.544.0929 05.544.1000 05.544.1029	9.0	5000 200 5000 200	0.5 – 1.50 mm² Reel contacts Single contacts	20 - 16	05.544.14 05.544.14		5000 200
origic corructs				200	Crimping tool Crimping die "E"		95.101.08 05.502.24		1 1
					Contact positioner "2" Extraction		05.502.32	0.00	1
					tool		05.502.00	0.00	1

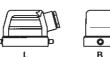
ı				tool 05.502.0000.0 1
15pole + ground	25pole + ground	40pole + ground	64pole + ground	
Part no.	Part no.	Part no.	Part no.	
73.700.1553.0	73.700.2553.0	73.700.4058.0	73.700.6458.0	
73.710.1553.0	73.710.2553.0	73.710.4058.0	73.710.6458.0	
				40 rate multipale adentes
				40pole multipole adapter a) = operating current b) = maximum operating current c) = ambient temperature d) = conductor cross section e) = number of loaded contacts
				a) J(c) 10 9 8 7
		73.105.4053.0	73.105.6453.0	7 2 1 -
		73.100.4053.0	73.100.6453.0	64pole multipole adapter
		73.115.4053.0	73.115.6453.0	a) = operating current b) = maximum operating current c) = ambient temperature d) = conductor cross section e) = number of loaded contacts
		73.110.4053.0	73.110.6453.0	a) :01
				() 275mm²
				1 2 2 4 72 78 700 78 706 52 706 62 52 52 52 66 7555 = e)

Industrial multipole connectors Hoods with single locking levers

revos HD



Version A



Version C





For inserts $600\ V$ UL/CSA

V UL/CSA DIN EN 175301-801
Degrees of protection: IP 55

For inserts **250 V** IEC 61 984 IP **65** w

IP 65 with the appropriate cable glands

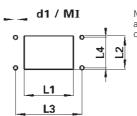
Thread	Cable gland type	Dimensions in mm		W	H Star	nd nool
1111000	ouble glaria type	Difficilisions in min	_	* *	11 0101	iiu. paci
M 20	with cable gland with threaded collar with intermediate support		63	33	64	1
M 25	0 with cable gland 1 with threaded collar 2 with intermediate support		63	33	64	1
M 20	0 with cable gland 1 with threaded collar 2 with intermediate support		79.5	33	70	1
M 25	0 with cable gland 1 with threaded collar 2 with intermediate support		79.5	33	70	1
M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	76	1
M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	76	1
M 25	with cable gland with threaded collar with intermediate support with strain relief		120	43	76	1
M 32	with cable gland with threaded collar with intermediate support with strain relief		120	43	76	1
	M 25 M 25 M 25 M 25 M 25 M 25	M 20 O with cable gland 1 with threaded collar 2 with intermediate support M 25 O with cable gland 1 with threaded collar 2 with intermediate support M 20 O with cable gland 1 with threaded collar 2 with intermediate support M 25 O with cable gland 1 with threaded collar 2 with intermediate support M 25 O with cable gland 1 with threaded collar 2 with intermediate support M 32 O with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 32 O with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 O with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 32 O with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief	M 20 O with cable gland 1 with threaded collar 2 with intermediate support M 25 O with cable gland 1 with threaded collar 2 with intermediate support M 20 O with cable gland 1 with threaded collar 2 with intermediate support M 25 O with cable gland 1 with threaded collar 2 with intermediate support M 25 O with cable gland 1 with threaded collar 2 with intermediate support M 25 O with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 32 O with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 O with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 O with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 32 O with cable gland 1 with threaded collar 2 with intermediate support 3 with cable gland 1 with threaded collar 2 with intermediate support	M 20 O with cable gland 1 with threaded collar 2 with intermediate support M 25 O with cable gland 1 with threaded collar 2 with intermediate support M 20 O with cable gland 1 with threaded collar 2 with intermediate support M 25 O with cable gland 1 with threaded collar 2 with intermediate support M 25 O with cable gland 1 with threaded collar 2 with intermediate support M 25 O with cable gland 1 with threaded collar 2 with intermediate support M 32 O with cable gland 1 with strain relief M 32 O with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 O with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 O with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 32 O with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 32 O with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief	M 20 0 with cable gland 1 with threaded collar 2 with intermediate support 63 33 M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 63 33 M 20 0 with cable gland 1 with threaded collar 2 with intermediate support 79.5 33 M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 79.5 33 M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief 93.5 43 M 32 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief 93.5 43 M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief 93.5 43 M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief 120 43 M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief 120 43	M 20 0 with cable gland 1 with threaded collar 2 with intermediate support 63 33 64 M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 63 33 64 M 20 0 with cable gland 1 with threaded collar 2 with intermediate support 79.5 33 70 M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 79.5 33 70 M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief 93.5 43 76 M 32 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief 93.5 43 76 M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief 93.5 43 76 M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief 120 43 76 M 32 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief 120 43 76

Hood with cable gland	Hood with cable gland
Version A	Version C
Part no.	Part no.
76.350.1535.0 76.350.1535.2	76.352.1535.0 76.352.1535.1 76.352.1535.2
76.353.1535.0	76.354.1535.0
76.353.1535.2	76.354.1535.1 76.354.1535.2
76.350.2535.0	76.352.2535.0
76.350.2535.2	76.352.2535.1 76.352.2535.2
76.353.2535.0	76.354.2535.0
76.353.2535.2	76.354.2535.1 76.354.2535.2
76.350.4035.0 76.350.4035.1 76.350.4035.2 76.350.4035.3	76.352.4035.0 76.352.4035.1 76.352.4035.2 76.352.4035.3
76.353.4035.0 76.353.4035.1 76.353.4035.2 76.353.4035.3	76.354.4035.0 76.354.4035.1 76.354.4035.2 76.354.4035.3
76.350.6435.0 76.350.6435.1 76.350.6435.2 76.350.6435.3	76.352.6435.0 76.352.6435.1 76.352.6435.2 76.352.6435.3
76.353.6435.0 76.353.6435.1 76.353.6435.2 76.353.6435.3	76.354.6435.0 76.354.6435.1 76.354.6435.2 76.354.6435.3

Industrial multipole connectors Housings with single locking levers, without protective cover

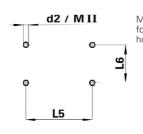
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Mounting dimensions and cut-outs for open-bottom housings

	Cut-out (mm)			nting ons (mm)			
Housing size			L3	L4	d1 (mm)	MI	
15	56	23	70	17.5	3.3	M 3	
25	72	23	86	17.5	4.3	M 4	
16	83.5	35	103	32	4.3	M 4	
24	112	35	130	32	4.3	M 4	



Mounting dimensions for closed-bottom housings

Housing size	L5 (mm)	L6 (mm)	d2 (mm)	MII
15	48	40	4.3	M 4
25	64	40	5.5	M 5
16	105	45	5.5	M 5
24	132	45	5.5	M 5

For inserts 600 V UL/CSA

For inserts **250 V** IEC 61 984

DIN EN 175301-801 Degrees of protection: IP 55
IP 65 with the appropriate cable glands

Number of poles	Thread	Cable gland type	Dimensions in mm	L	W	Н	Stand. pack
Size 15	1111000	casio giana typo	Similarional in mini				1
for multipole	M 20	0 with cable gland		81	30	25.7	1
·	IVI 20	1 with threaded collar		81	50	52.5	1
connectors		i with threaded collar		81	50	52.5	ı
15pole + ground							
	M 25	0 with cable gland		81	50	52.5	1
		1 with threaded collar		81	50	52.5	1
Size 25				96	30	25.7	1
for multipole	M 20	0 with cable gland		95.7	50	57.5	1
connectors		1 with threaded collar		95.7	50	57.5	1
25pole + ground							
3	M 25	0 with cable gland		95.7	50	57.5	1
		1 with threaded collar		95.7	50	57.5	1
Size 16				113	43	28	1
for multipole	M 25	0 with cable gland		117	52	76.5	1
connectors		1 with threaded collar		117	52	76.5	1
40pole + ground							
3	M 32	0 with cable gland		117	52	76.5	1
		1 with threaded collar		117	52	76.5	1
Size 24				140	43	28	1
for multipole	M 25	0 with cable gland		144	52	76.5	1
connectors		1 with threaded collar		144	52	76.5	1
64pole + ground							
. •	M 32	0 with cable gland		144	52	76.5	1
		1 with threaded collar		144	52	76.5	1

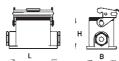
Version a

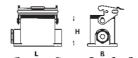
Version b

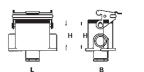
Version c

Version d







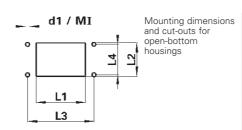


Open-bottom housing	Closed-bottom housing with two narrow-side entry cable glands	Closed bottom housing with one narrow- side entry cable gland on the left	Closed-bottom housing with bottom entry cable gland	Open-bottom housing with locking ridges for multipole adapters	
Version a	Version b	Version c	Version d	Version a	
Part no.	Part no.	Part no.	Part no.	Part no.	
76.320.1528.0	76.330.1535.0 76.330.1535.1	76.331.1535.0 76.331.1535.1			
	76.334.1535.0 76.334.1535.1	76.335.1535.0 76.335.1535.1			
76.320.2528.0	76.330.2535.0 76.330.2535.1	76.331.2535.0 76.331.2535.1			
	76.334.2535.0 76.334.2535.1	76.335.2535.0 76.335.2535.1			
71.320.1628.0	76.330.4035.0 76.330.4035.1	76.331.4035.0 76.331.4035.1	76.333.4035.0 76.333.4035.1	76.326.4028.0	
	76.334.4035.0 76.334.4035.1	76.335.4035.0 76.335.4035.1	76.337.4035.0 76.337.4035.1		
71.320.2428.0	76.330.6435.0 76.330.6435.1	76.331.6435.0 76.331.6435.1	76.333.6435.0 76.333.6435.1	76.326.6428.0	
	76.334.6435.0 76.334.6435.1	76.335.6435.0 76.335.6435.1	76.337.6435.0 76.337.6435.1		

Industrial multipole connectors Housings with single locking levers and protective cover

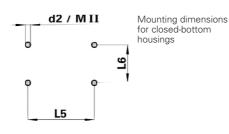
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	Cut-ou	t (mm)		nting ons (mm)			
Housing size	L1	L2	L3	L4	d1 (mm)	MI	
15	56	23	70	17.5	3.3	M 3	
25	72	23	86	17.5	4.3	M 4	
16	83.5	35	103	32	4.3	M 4	
24	112	35	130	32	4.3	M 4	

M 5



 Housing size
 L5 (mm)
 L6 (mm)
 d2 (mm)
 MII

 15
 48
 40
 4.3
 M 4

 25
 64
 40
 5.5
 M 5

 16
 105
 45
 5.5
 M 5

132

24

For inserts 600~V UL/CSA

For inserts **250 V** IEC 61 984

DIN EN 175301-801

Degrees of protection: IP 55

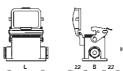
IP 65 with the appropriate cable glands

or inserts 250 V	IEC 61 984	IP 65 with the appropriate cable glands					
Number of poles	Thread	Cable gland type	Dimensions in mm	L	W	Н	Stand. pack
Size 15 for multipole connectors				81	30	25.7	1
15pole + ground							
Size 25 for multipole connectors				96	30	25.7	1
25pole + ground							
Size 16	14.05			113	43	28	1
for multipole connectors	M 25	with cable gland with threaded collar		117 117	52 52	76.5 76.5	1
40pole + ground							
	M 32	0 with cable gland 1 with threaded collar		117 117	52 52	76.5 76.5	1
Size 24				140	43	28	1
for multipole connectors	M 25	0 with cable gland1 with threaded collar		144 144	52 52	76.5 76.5	1 1
64pole + ground							
	M 32	0 with cable gland1 with threaded collar		144 144	52 52	76.5 76.5	1 1

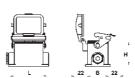
Version e



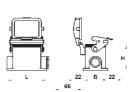




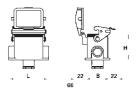
Version g



Version h



Version i



Open-bottom housing with protective cover for female and male inserts only

Version e



Version f



Closed bottom

Closed bottom housing with one narrow-side entry cable gland on the right and protective cover

Version h



Closed bottom housing with one bottom entry cable gland and protective cover

Version i



Open-bottom housing with protective cover and locking ridges for multipole adapters

Version e







Part no

Q.	
	Part no.
	76.327.4028.0
	76.327.6428.0

Part no. Part no. Part no. Part no. 76.325.1528.0 76.325.2528.0 71.325.1628.0 76.340.4035.0 76.341.4035.0 76.342.4035.0 76.343.4035.0 76.342.4035.1 76.343.4035.1 76.340.4035.1 76.341.4035.1 76.344.4035.0 76.345.4035.0 76.346.4035.0 76.347.4035.0 76.346.4035.1 76.347.4035.1 76.344.4035.1 76.345.4035.1 71.325.2428.0 76.342.6435.0 76.343.6435.0 76.340.6435.0 76.341.6435.0 76.340.6435.1 76.341.6435.1 76.342.6435.1 76.343.6435.1 76.346.6435.0 76.347.6435.0 76.344.6435.0 76.345.6435.0 76.346.6435.1 76.347.6435.1 76.344.6435.1 76.345.6435.1

Industrial multipole connectors Hoods with double locking levers,

revos HD



For inserts 600 V UL/CSA

For inserts **250 V** IEC 61 984

DIN EN 175301-801

Degrees of protection: IP 55

IP 65 with the appropriate cable glands

Number of poles	Thread	Cable gland type	Dimensions in mm	L	W	H Stand	d. pack
Size 16 for multipole connectors	M 25	with cable gland with thread with intermediate support with strain relief		93.5 93.5 93.5 93.5	43 43 43 43	76 76 76 76	1 1 1 1
40pole + ground	M 32	with cable gland with threaded collar with intermediate support with strain relief		93.5 93.5 93.5 93.5	43 43 43 43	76 76 76 76	1 1 1
Size 24 for multipole connectors	M 25	with cable gland with threaded collar with intermediate support with strain relief		120 120 120 120	43 43 43 43	76 76 76 76	1 1 1 1
64pole + ground	M 32	with cable gland with threaded collar with intermediate support with strain relief		120 120 120 120	43 43 43 43	76 76 76 76	1 1 1 1

Version A

Version C

Version D

Version F



73.353.6435.0

73.353.6435.1 73.353.6435.2 73.353.6435.3









73.359.6435.0

73.359.6435.1 73.359.6435.2







| Hood with cable gland |
|--|--|--|--|
| Version A | Version C | Version D | Version F |
| | | | |
| Part no. | Part no. | Part no. | Part no. |
| 73.350.4035.0
73.350.4035.1
73.350.4035.2
73.350.4035.3 | 73.352.4035.0
73.352.4035.1
73.352.4035.2
73.352.4035.3 | 73.355.4035.0
73.355.4035.1
73.355.4035.2
73.355.4035.3 | 73.357.4035.0
73.357.4035.1
73.357.4035.2
73.357.4035.3 |
| 73.353.4035.0
73.353.4035.1
73.353.4035.2
73.353.4035.3 | 73.354.4035.0
73.354.4035.1
73.354.4035.2
73.354.4035.3 | 73.358.4035.0
73.358.4035.1
73.358.4035.2
73.358.4035.3 | 73.359.4035.0
73.359.4035.1
73.359.4035.2
73.359.4035.3 |
| 73.350.6435.0
73.350.6435.1
73.350.6435.2
73.350.6435.3 | 73.352.6435.0
73.352.6435.1
73.352.6435.2
73.352.6435.3 | 73.355.6435.0
73.355.6435.1
73.355.6435.2
73.355.6435.3 | 73.357.6435.0
73.357.6435.1
73.357.6435.2
73.357.6435.3 |

73.358.6435.0

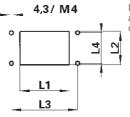
73.358.6435.1 73.358.6435.2 73.358.6435.3

73.354.6435.0 73.354.6435.1 73.354.6435.2 73.354.6435.3

Industrial multipole connectors Housings with double locking levers, without protective cover

revos HD





Mounting dimensions and cut-outs for open-bottom housings

	Cut-ou	t (mm)	Mou dimension	nting ons (mm)
Housing size	L1	L2	L3	L4
16	83.5	103	32	35
24	112	130	32	35

Ø 5,5	/ M5	ŀ
0	o	Ī
•	•—	<u>†</u>
LS	i	

Mounting dimensions for closed-bottom housings

Housing size	L5 (mm)	L6 (mm)
16	105	45
24	132	45

For inserts 600~V UL/CSA

For inserts **250 V** IEC 61 984

DIN EN 175301-801

Degrees of protection: IP 55

IP 65 with the appropriate cable glands

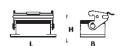
Number of poles	Thread	Cable gland type	Dimensions in mm	L	W	Н	Stand. pack
Size 16				113	43	28	1
for multipole	M 25	0 with cable gland		117	52	76.5	1
connectors		1 with threaded collar		117	52	76.5	1
40pole + ground							
	M 32	0 with cable gland		117	52	76.5	1
		1 with threaded collar		117	52	76.5	1
Size 24				140	43	28	1
for multipole	M 25	0 with cable gland		144	52	76.5	1
connectors		1 with threaded collar		144	52	76.5	1
64pole + ground							
	M 32	0 with cable gland		144	52	76.5	1
		1 with threaded collar		144	52	76.5	1

Version a

Version b

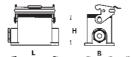
Version c

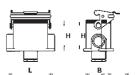
Version d









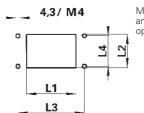


Open-bottom housing	Closed-bottom housing with two narrow-side entry cable glands	Closed bottom housing with one narrow- side entry cable gland on the left	Closed-bottom housing with bottom entry cable gland	Open-bottom housing with locking ridges for multipole adapters
Version a	Version b	Version c	Version d	Version a
Part no.	Part no.	Part no.	Part no.	Part no.
70.320.1628.0	73.330.4035.0 73.330.4035.1	73.331.4035.0 73.331.4035.1	73.333.4035.0 73.333.4035.1	73.326.4028.0
	73.334.4035.0 73.334.4035.1	73.335.4035.0 73.335.4035.1	73.337.4035.0 73.337.4035.1	
70.320.2428.0	73.330.6435.0 73.330.6435.1	73.331.6435.0 73.331.6435.1	73.333.6435.0 73.333.6435.1	73.326.6428.0
	73.334.6435.0 73.334.6435.1	73.335.6435.0 73.335.6435.1	73.337.6435.0 73.337.6435.1	

Industrial multipole connectors Hoods with double locking levers with protective cover

revos HD





Mounting dimensions and cut-outs for open-bottom housings

	Cut-ou	t (mm)	Mounting dimensions (mm		
Housing size	L1	L2	L3	L4	
16	83.5	103	32	35	
24	112	130	32	35	

Ø 5,!	5/ M5	Mounting dimensions for closed-bottom
9	O	housings
0	0	
L	5	

Housing size	L5 (mm)	L6 (mm)
16	105	45
24	132	45

For inserts 600~V UL/CSA

For inserts **250 V** IEC 61 984

DIN EN 175301-801

Degrees of protection: IP 55

IP 65 with the appropriate cable glands

Number of poles	Thread	Cable gland type	Dimensions in mm	L	W	Н	Stand. pack
Size 16				113	43	28	1
for multipole	M 25	0 with cable gland		117	52	76.5	1
connectors		1 with threaded collar		117	52	76.5	1
40pole + ground							
	M 32	0 with cable gland		117	52	76.5	1
		1 with threaded collar		117	52	76.5	1
Size 24				140	43	28	1
for multipole	M 25	0 with cable gland		144	52	76.5	1
connectors		1 with threaded collar		144	52	76.5	1
64pole + ground							
	M 32	0 with cable gland		144	52	76.5	1
		1 with threaded collar		144	52	76.5	1



Industrial multipole connector for cable to cable couplings with double locking lever

revos



All hoods and housings can be supplied with an intermediate support and without metric cable glands. For this case please change the part number by adding a 2 in the end (e.g. 72.352.1035.2). If you want to order hoods or housings with metric thread only, please indicate a 1 at the end of the part number (e.g. 72.352.1035.1).

Other than shown in the figure, the 6pole and 48pole connectors in version 70.3, and the 20, 26 and 32pole connectors in version 70.4 only have one locking lever on the broad side!

For accessories and marking material for hoods and open-bottom housings please see the section Accessories for industrial multipole connectors

Female insert with screw connection Male insert with screw connection

Degree of protection: IP 55 accord. to DIN EN 60 529
Degree of protection: IP 65 accord. to DIN EN 60 529 with appropriate cable glands

Rated current accord. to IEC 61 984





Type	Used cont.Sv	witch. cont.g	round	Cable ent	try U	UL/CSA	- 1	Cross sect	ion Stand	. pack	Part no.	Part no.
70.3	6	-	1	M 20	500 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.300.0640.0	70.310.0640.0
70.4	3	2	1	M 20	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.400.0340.0	70.410.0340.0
70.4	6	2	1	M 25	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.400.0640.0	70.410.0640.0
70.2	6	-	1	M 25	400 V	600 V	35 A	6.0 mm^2	8 AWG	10	70.200.0653.0	70.210.0653.0
70.3	10	-	1	M 20	500 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.300.1040.0	70.310.1040.0
70.4	10	2	1	M 25	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.400.1040.0	70.410.1040.0
70.3	16	-	1	M 32	500 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.300.1640.0	70.310.1640.0
70.4	16	2	1	M 32	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	10	70.400.1640.0	70.410.1640.0
70.4	20	2	1	M 32	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	5	70.400.2040.0	70.410.2040.0
70.3	24	-	1	M 32	500 V	600 V		2.5 mm ²		10	70.300.2440.0	70.310.2440.0
70.4	26	2	1	M 32	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	5	70.400.2640.0	70.410.2640.0
70.4	32	2	1	M 32	690/400 V	600 V	16 A	2.5 mm ²	12 AWG	5	70.400.3240.0	70.410.3240.0
70.3	48	-	1	M 32	500 V	600 V	16 A	2.5 mm ²	12 AWG	5	70.300.4840.0	70.310.4840.0

	Hood with cable gland	Hood with cable gland with locking levers and gasket	Hood with strain relief	Hood with strain relief with locking levers and gasket
Std. pack	Part no.	Part no.	Part no.	Part no.
1	70.352.0635.0	70.372.0635.0	70.352.0635.3	70.372.0635.3
1	72.352.1035.0	72.372.1035.0	72.352.1035.3	72.372.1035.3
1 1	72.352.1635.0 70.352.1635.0	72.372.1635.0 70.372.1635.0	72.352.1635.3 70.352.1635.3	72.372.1635.3 70.372.1635.3
1	70.352.1035.0	70.372.1035.0	70.352.1035.3	70.372.1035.3
1	72.352.2435.0	72.372.2435.0	72.352.2435.3	72.372.2435.3
1	70.354.1635.0	70.374.1635.0	70.354.1635.3	70.374.1635.3
1 1	72.354.2435.0	72.374.2435.0	72.354.2435.3 70.375.4835.3	72.374.2435.3 70.372.4835.3
'			70.370.4665.5	70.572.4655.5
1	70.354.2435.0	70.374.2435.0	70.354.2435.3	70.374.2435.3
1	70.004.2400.0	70.074.2400.0	70.375.4835.3	70.372.4835.3
1			70.375.4835.3	70.372.4835.3
1			70.375.4835.3	70.372.4835.3
	Examples:			48pole connection
	10pole connection 1	Opole connection 16pole connection	24pole connection	
	\$ 98,5 \(\)	109,5 ≈143	25 M 32 27 23,5 143,5 0	200
		tild dilah		66
	20		56	148 144 -

Industrial multipole connector for cable to cable couplings with single locking lever

revos



All hoods and housings can be supplied with an intermediate support and without metric cable glands. For this case please change the part number by adding a 2 in the end (e.g. 72.352.1035.2). If you want to order hoods or housings with metric cable gland only, please indicate a 1 at the end of the part number (e.g. 72.352.1035.1).

For accessories and marking material for hoods and open-bottom housings please see the section Accessories for industrial multipole connectors

Female insert with screw connection Male insert with screw connection

Degree of protection: IP 55 accord.to DIN EN 60 529 Degree of protection: IP 65

accord. to DIN EN 60 529 with appropriate cable glands

Rated current accord. to IEC 61 984





Type	Used cont.S	Switch. cont.0	Ground	Cable e	ntry U	UL/CSA		Cross section Stand	I. pack	Part no.	Part no.
71.4	3	2	1	M 20	690/400 V	600 V	16 A	2.5 mm ² 12 AWG	10	70.400.0340.0	70.410.0340.0
71.4	6	2	1	M 25	690/400 V	600 V	16 A	2.5 mm ² 12 AWG	10	70.400.0640.0	70.410.0640.0
71.2	6	-	1	M 25	400 V	600 V	35 A	6.0 mm ² 8 AWG	10	70.200.0653.0	70.210.0653.0
71.3	10	-	1	M 20	500 V	600 V	16 A	2.5 mm ² 12 AWG	10	70.300.1040.0	70.310.1040.0
71.4	10	2	1	M 32	690/400 V	600 V	16 A	2.5 mm ² 12 AWG	10	70.400.1040.0	70.410.1040.0
71.3	16	-	1	M 25	500 V	600 V	16 A	2.5 mm ² 12 AWG	10	70.300.1640.0	70.310.1640.0
71.4	16	2	1	M 32	690/400 V	600 V	16 A	2.5 mm ² 12 AWG	10	70.400.1640.0	70.410.1640.0
71.3	24	-	1	M 32	500 V	600 V	16 A	2.5 mm ² 12 AWG	10	70.300.2440.0	70.310.2440.0
										Male insert with crimp connection	Male insert with crimp connection
73.7	15	_	1	M 20	250 V	600 V	10 A	1.5 mm ² 16 AWG	10	73.700.1553.0	73.710.1553.0
73.7	15	-	1	M 25	250 V	600 V	10 A	1.5 mm ² 16 AWG	10	73.700.1553.0	73.710.1553.0
73.7	25	-	1	M 20	250 V	600 V	10 A	1.5 mm ² 16 AWG	10	73.700.2553.0	73.710.2553.0
73.7	25	-	1	M 25	250 V	600 V	10 A	1.5 mm ² 16 AWG	10	73.700.2553.0	73.710.2553.0

109,5

M 20 23



123.5

M 25 25

109

136

M 32

Modular industrial multipole connectors

UL, CSA

IEC 61 984

max. 40 A

40 A / 35 A 630 V

600 V

690 V AC

UL 94 V-0

max. 16 A

UL 94 V-0

max. 20 A

20 A / 16 A 250 V

UL 94 V-0

max. 10 A

PC, zero halogen

pebble gray, RAL 7032

Ø 2.5 mm², turned contact

600 V

1000 V

black

PC, zero halogen pebble gray, RAL 7032

Ø 3.6 mm², turned contact

Ø 2.5 mm², stamped contact

PA GF, zero halogen

revos FLEX

Technical Data

Approvals ■ Applicable standards

■ Contact inserts

3pole

Rated current Rated current accord. to UL/CSA

Rated voltage

Rated voltage accord. to UL/CSA

Mains voltage Insulating material

Color

Flammability class Crimp connection

4pole + ground

Rated current Rated voltage Insulating material

Color

Flammability class Crimp connection

5pole

Rated current

Rated current accord. to UL/CSA

Rated voltage

Rated voltage accord. to UL/CSA

Insulating material

Color

Flammability class Crimp connection

10pole

Rated current

Rated current accord. to UL/CSA

Rated voltage

Rated voltage accord. to UL/CSA

Insulating material

Color

Flammability class Crimp connection

20pole

Rated current

Rated current accord. to UL/CSA

Rated voltage

Rated voltage accord. to UL/CSA

Insulating material

Color

Flammability class

Crimp connection

250 V 600 V

10 A

PC, zero halogen pebble gray, RAL 7032

UL 94 V-0

Ø 1.6 mm², turned contact

max. 4 A

5 A 630 V 63 V/60 V

PC, zero halogen pebble gray, RAL 7032

UL 94 V-0

Ø 1.0 mm², stamped contact

Contacts

Material copper alloy

silver-plated (3, 4, 5 and 10pole) Surface

gold-plated (20pole)



Modular industrial multipole connectors



Manager in terms of performance and flexibility

Industrial multipole connectors function as electro-mechanical interfaces and enable an efficient connection between the power supply and control lines of industrial systems and devices. Their complexity, however, becomes more and more demanding and sets limits to standard connector systems.

Wieland Electric GmbH developed the modular multipole connector system **revos** FLEX to meet the requirements of highly complex applications.

The high flexibility of the connector system is characterized by its individual design options which can be adapted to the various applications. The module frames can be fitted with modular inserts of 3 to 20 poles in a voltage range between 100V and 1000V, and for electrical power between 4A and 40A. Flexibility also shows in the fact that the module frames can be fitted inverted, meaning female and male contacts on the same side.

The contacts for the 3, 5 and 10pole modular inserts are turned and silver-plated and can be used for the crimp connection technique. For high-voltage applications, the modular inserts are designed with 4 poles + ground with punched and silver-plated contacts. The contacts of the 20pole modular inserts are also punched, but gold-plated.

You can choose among four sizes of module frames which provide a ground connection at the front.

Die cast aluminum housings are available for 6, 10, 16 and 24pole standard inserts and provide sufficient protection against tough environmental conditions.

System design

- 4 frame sizes
- ☐ 5 different modules
- 17 contact variations
- □ 306 hood and housing options

System advantages

- ☐ Flexible usage
 - The modules can be used independently of the signal flow
 - Signal, control and power modules can be combined in one connector
 - Already existing modules can be combined with new modules
 - Future module designs can be used due to the system's modularity
- ☐ Safe handling
 - The modules are coded and can therefore not be mismated in the frame
 - The connectors can be coded as per the module assignment
 - Easy contact recognition because of the markings
 - Gas-tight crimping
- Cost reduction
 - Small quantities of connectors can be implemented cost effectively
 - Reduced number of connectors
 - Low stock due to reduced product variety
 - Higher availability due to reduced product variety
- in quantities of 100 pieces or more, the frames can be fitted with empty modules according to your drawings.



See the following sequence list to design your own connector:

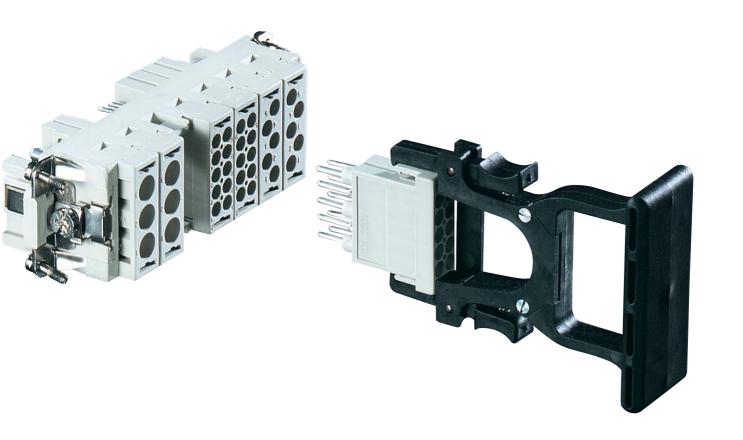
	Determine the frame such as:	
	Male contact frame, size 10, for 3 modules	78.010.1053.0
	Female contact frame, size 10, for 3 modules	78.000.1053.0

Determine the housing such as:	
Hood	70.350.1035.0
Housings	70.320.1028.0

	Select the modules such as:	
	Modular insert, 3pole, male	78.014.0353.0
2	Modular insert, 3pole, female	78.004.0353.0

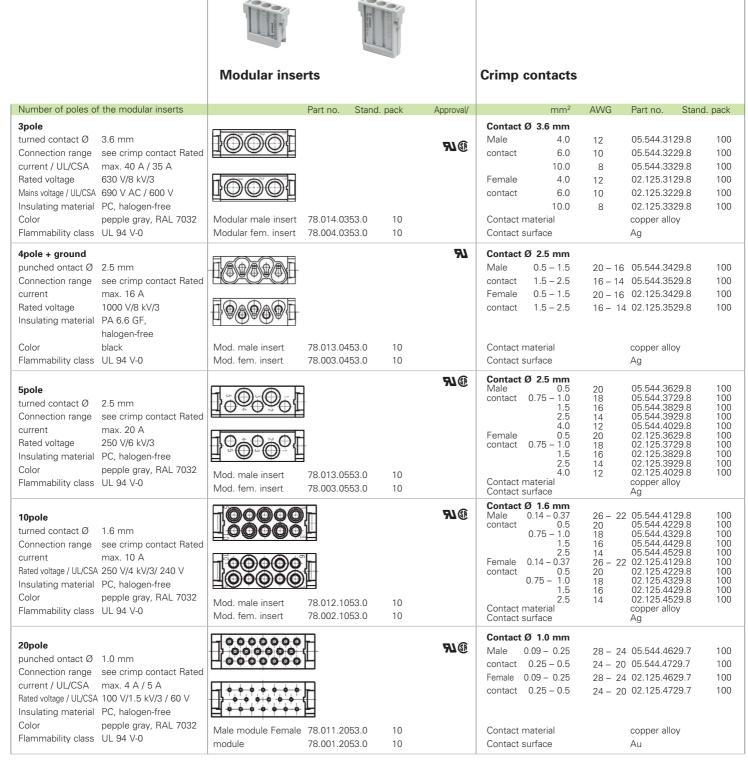
Select the contacts such as:	
Male contacts for 4 mm ²	05.544.3129.8
Female contacts for 4 mm ²	02.125.3129.8

Select the crimping tools such as:	
Crimping tool	95.101.0800.0
Crimping die "D"	05.502.2300.0
Contact positioner "1"	05.502.3100.0



Modular industrial multipole connectors







positioner required





Crimping too	ols	Extraction tool for contacts	Extraction tool for modular inserts	
	Part no. Stand. pack	Part no. Stand. pack	Part no. Stand. pack	
Crimping tool in system kit Crimping die "D" Contact positioner "1"	95.101.0800.0 1 05.502.2300.0 1 05.502.3100.0 1	05.502.0910.0 1	05.502.1010.0 1	
Crimping tool in system kit Crimping die "C" Contact positioner "2"	95.101.0800.0 1 05.502.2200.0 1 05.502.3200.0 1	05.502.0610.0 1		
Crimping tool in system kit Crimping die "B" Contact positioner "1"	95.101.0800.0 1 05.502.2100.0 1 05.502.3100.0 1	05.502.0810.0 1		
Crimping tool in system kit Crimping die "B" Contact positioner "1"	95.101.0800.0 1 05.502.2100.0 1 05.502.3100.0 1	05.502.0710.0 1	Crimping tools for the modular connectors For contact crimping we provide crimping tools in a modular system: This crimping tool system consists of a crimping tool for which you can select the crimping	
Crimping tool in system kit Crimping die "A" no contact	95.101.0800.0 1 05.502.2000.0 1	05.502.0410.0 1	dies and contact positioners for your required contact type. The crimping dies and the contact positioner are easily inserted in the tool and exchanged. You will require only one crimping tool for several contact types as you can use it with the corresponding crimping dies and contact positioners.	

Modular industrial multipole connectors







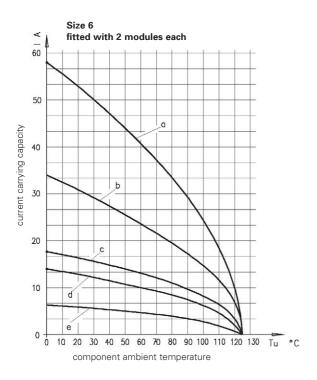
Module frame

Insulating material Color

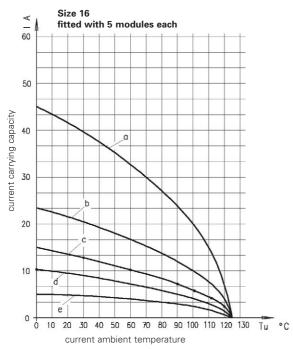
Flammability class

PC, halogen-free pepple gray, RAL 7032 UL 94 V-0

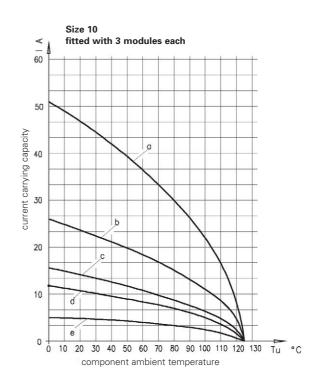
Module trame	Flammability class UL 94 V-0	
	Dimensions in mm	Part no. Approvals Stand. pack
Module frame size 6 for 2 modules	Male module frame Female module frame	Male module 78.010.0653.0 91.0 10
W. Weland	24,5 22,1 27 27 27 27 (2 Module)	Female module frame 78.000.0653.0 %1 (8) 10
Module frame size 10 for 3 modules	Male module frame Female module frame	Male module frame 78.010.1053.0 %1 10
Williams States	24,5 27 27 (3 Module)	Female module frame 78.000.1053.0 %1 (1)
Module frame size 16 for 5 modules	Male module frame Female module frame	Male module frame 78.010.1653.0 91. 10
Mand Mand	24,5 27 27 (5,16) (5 Module)	Female module frame 78.000.1653.0 91 10
Module frame size 24 for 7 modules	Male module frame Female module frame	Male module frame 78.010.2453.0 % 10
W.Wishard W.Wishard	24,5 27 Gr.24 (7 Module)	Female module frame 78.000.2453.0 91 (9 10



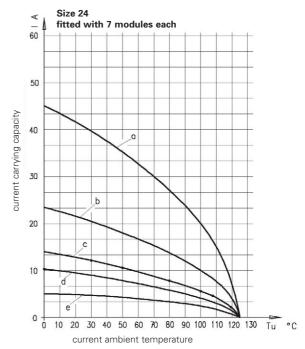
Curve	Num. of poles	Contact diameter	Connector cross section
а	6 (2x3)	3.6 mm, turned	6.0 mm ² / 10 AWG
b	10 (2×5)	2.5 mm, turned	2.5 mm ² / 14 AWG
С	20 (2x10)	1.6 mm, turned	1.5 mm ² / 16 AWG
е	40 (2×20)	1.0 mm, punched	0.5 mm ² / 20 AWG



Curve	Num. of poles	Contact diameter	Connector cross section
а	15 (5x3)	3.6 mm, turned	6.0 mm ² / 10 AWG
b	25 (5x5)	2.5 mm, turned	2.5 mm ² / 14 AWG
С	50 (5x10)	1.6 mm, turned	1.5 mm ² / 16 AWG
е	100 (5x20)	1.0 mm, punched	0.5 mm ² / 20 AWG



Curve	Num. of poles	Contact diameter	Connector cross section		
а	9 (3x3)	3.6 mm, turned	6.0 mm ² / 10 AWG		
b	15 (3x5)	2.5 mm, turned	2.5 mm ² / 14 AWG		
С	30 (3x10)	1.6 mm, turned	1.5 mm ² / 16 AWG		
е	60 (3×20)	1.0 mm, punched	0.5 mm ² / 20 AWG		



Curve	Num. of poles	Contact diameter	Connector cross section		
а	21 (7x3)	3.6 mm, turned	6.0 mm ² / 10 AWG		
b	35 (7x5)	2.5 mm, turned	2.5 mm ² / 14 AWG		
С	70 (7x10)	1.6 mm, turned	1.5 mm ² / 16 AWG		
е	140 (7×20)	1.0 mm, punched	0.5 mm ² / 20 AWG		

Modular industrial multipole connector Hoods with single locking levers

revos FLEX

Version A





Version C







Degrees of protection: IP 55;

IP 65 with the appropriate cable glands (see the accessories)

ii 05 with the	e appropriate cable glands (see the acce	550(165)				
Thread	Cable gland type	Dimensions in mm	L	W	H Stand	d. pacl
M 20	with cable gland with threaded collar with intermediate support with strain relief		60	43	47.5	
M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		60	43	47.5	
M 20	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	
M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		73	43	53	
M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	76	
M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		93.5	43	76	
M 25	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	76	
M 32	0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief		120	43	76	
	M 20 M 25 M 25 M 25 M 25 M 25 M 25	Thread Cable gland type M 20 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 20 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 0 with cable gland 1 with strain relief M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 0 with cable gland 1 with strain relief M 25 0 with cable gland 1 with strain relief M 32 0 with cable gland 1 with strain relief M 25 0 with cable gland 1 with strain relief M 32 0 with cable gland 1 with strain relief M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 32 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief	Thread Cable gland type Dimensions in mm M 20 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 20 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 32 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 32 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief	Thread Cable gland type Dimensions in mm L M 20 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 20 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 32 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 32 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 25 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 32 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief M 32 0 with cable gland 1 with threaded collar 2 with intermediate support 3 with strain relief	Thread Cable gland type Dimensions in mm L W	Thread Cable gland type Dimensions in mm L W H Stance

Hood	Hood
Version A	Version C
	8
Part no.	Part no.
70.350.0635.0	70.352.0635.0
70.350.0635.1	70.352.0635.1
70.350.0635.2	70.352.0635.2
70.350.0635.3	70.352.0635.3
70.353.0635.0	70.354.0635.0
70.353.0635.1	70.354.0635.1
70.353.0635.2	70.354.0635.2
70.353.0635.3	70.354.0635.3
71.350.1035.0	71.352.1035.0
71.350.1035.1	71.352.1035.1
71.350.1035.2	71.352.1035.2
71.350.1035.3	71.352.1035.3
71.353.1035.0	71.354.1035.0
71.353.1035.1	71.354.1035.1
71.353.1035.2	71.354.1035.2
71.353.1035.3	71.354.1035.3
76.350.4035.0	76.352.4035.0
76.350.4035.1	76.352.4035.1
76.350.4035.2	76.352.4035.2
76.350.4035.3	76.352.4035.3
76.353.4035.0	76.354.4035.0
76.353.4035.1	76.354.4035.1
76.353.4035.2	76.354.4035.2
76.353.4035.3	76.354.4035.3
76.350.6435.0	76.352.6435.0
76.350.6435.1	76.352.6435.1
76.350.6435.2	76.352.6435.2
76.350.6435.3	76.352.6435.3
76.353.6435.0	76.354.6435.0
76.353.6435.1	76.354.6435.1
76.353.6435.2	76.354.6435.2
76.353.6435.3	76.354.6435.3

Modular industrial multipole connectors Housings with single locking levers

revos flex

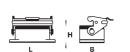


Version a

Version b

Version c

Version d



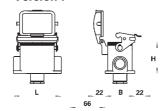












Open-bottom housing

Version a

housing with two narrow-side entry cable glands

Version b

Closed bottom housing with one narrow-side entry cable gland on

Version c





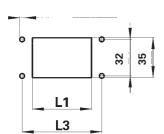






Size 6 for 2 modular inserts Size 10 for 3 modular inserts Size 16	Thread M 20	Cable gland type 0 with cable gland 1 with threaded collar	80 84 84	W 43 52 52	H Std. par 28 54.5	Part no. 1 70.320.0628.0	Part no.	Part no.
for 2 modular inserts Size 10 for 3 modular inserts Size 16 high design	M 20	· ·	84	52		70.320.0628.0		
for 3 modular inserts Size 16 high design				52	54.5	1	70.330.0635.0 70.330.0635.1	70.331.0635.0 70.331.0635.1
high design	M 20	0 with cable gland 1 with threaded collar	93 94 94	43 52 52	28 54.5 54.5	71.320.1028.0 1	71.330.1035.0 71.330.1035.1	71.331.1035.0 71.331.1035.1
Tot 5 modular miserts	M 25	0 with cable gland 1 with threaded collar	113 117 117	43 52 52	28 76.5 76.5	71.320.1628.0 1	76.330.4035.0 76.330.4035.1	76.331.4035.0 76.331.4035.1
	M 32	0 with cable gland 1 with threaded collar	117 117	52 52	76.5 76.5	1	76.334.4035.0 76.334.4035.1	76.335.4035.0 76.335.4035.1
Size 24 high design for 7 modular inserts	M 25	0 with cable gland 1 with threaded collar	140 144 144	43 52 52	28 76.5 76.5	1 71.320.2428.0 1 1	76.330.6435.0 76.330.6435.1	76.331.6435.0 76.331.6435.1
	M 32	0 with cable gland 1 with threaded collar	144 144	52 52	76.5 76.5	1	76.334.6435.0 76.334.6435.1	76.335.6435.0 76.335.6435.1

Ø 4.3/M 4



Mounting dimensions and cut-outs for open-bottom housings

Housing size	(mm) L1	(mm)		
6	52	70		
10	65	83		
16	85.5	103		
24	112	130		

Version e

Version f

Version g

Version h





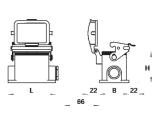












Closed-bottom housing with bottom entry cable

gland

Version d

Open-bottom housing with protective cover

Version e

Closed-bottom housing with two narrow-side entry cable glands and protective cover

Version f



Closed bottom housing with one narrow-side entry cable gland on the left and protective cover

Version g



Closed bottom housing
with one narrow-side entry
cable gland on the right
and protective cover

Version h



Closed bottom housing with bottom entry cable gland and protective cover

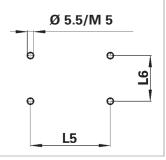
Version i



			14	The same of the sa	
Part no.	Part no.				
	70.325.0628.0				ļ
70.333.0635.0		70.340.0635.0	70.341.0635.0	70.342.0635.0	70.343.0635.0
70.333.0635.1		70.340.0635.1	70.341.0635.1	70.342.0635.1	70.343.0635.1
	71.325.1028.0				
71.333.1035.0		71.340.1035.0	71.341.1035.0	71.342.1035.0	71.343.1035.0
71.333.1035.1		71.340.1035.1	71.341.1035.1	71.342.1035.1	71.343.1035.1
	71.325.1628.0				
76.333.4035.0		76.340.4035.0	76.341.4035.0	76.342.4035.0	76.343.4035.0
76.333.4035.1		76.340.4035.1	76.341.4035.1	76.342.4035.1	76.343.4035.1
76.337.4035.0		76.344.4035.0	76.345.4035.0	76.346.4035.0	76.347.4035.0
76.337.4035.1		76.344.4035.1	76.345.4035.1	76.346.4035.1	76.347.4035.1
	71.325.2428.0				
76.333.6435.0		76.340.6435.0	76.341.6435.0	76.342.6435.0	76.343.6435.0
76.333.6435.1		76.340.6435.1	76.341.6435.1	76.342.6435.1	76.343.6435.1
76.337.6435.0		76.344.6435.0	76.345.6435.0	76.346.6435.0	76.343.6435.0
76.337.6435.1		76.344.6435.1	76.345.6435.1	76.346.6435.1	76.343.6435.1

Housing size	L5 (mm)	L6 (mm
6	70	40
10	82	40
16	105	45
24	132	45

Mounting dimensions for closed-bottom housings



Modular industrial multipole connectors Hoods with double locking levers

revos flex



Version A











Degrees of protection: IP 55; IP 65

with the appropriate cable glands (see the accessories)

Number of poles	Thread	Cable gland type	Dimensions in mm	L	W	H Stan	d. pack
Size 10 for 3 modular inserts	M 20	with cable gland with threaded collar with intermediate support with strain relief		73	43	53	1
	M 32	with cable gland with threaded collar with intermediate support with strain relief		73	43	76	1
Size 16 for 5 modular inserts	M 25	with cable gland with threaded collar with intermediate support with strain relief		93.5	43	76	1
	M 32	with cable gland with threaded collar with intermediate support with strain relief		93.5	43	76	1
Size 24 for 7 modular inserts	M 25	with cable gland with threaded collar with intermediate support with strain relief		120	43	76	1
	M 32	with cable gland with threaded collar with intermediate support with strain relief		120	43	76	1

Version D











Hood	Hood	Hood with locking levers	Hood with locking levers	
Version A	Version C	Version D	Version F	
	The same			
Part no.	Part no.	Part no.	Part no.	
70.350.1035.0 70.350.1035.1 70.350.1035.2 70.350.1035.3	70.352.1035.0 70.352.1035.1 70.352.1035.2 70.352.1035.3	70.355.1035.0 70.355.1035.1 70.355.1035.2 70.355.1035.3	70.357.1035.0 70.357.1035.1 70.357.1035.2 70.357.1035.3	
73.353.1035.0 73.353.1035.1 73.353.1035.2 73.353.1035.3	73.354.1035.0 73.354.1035.1 73.354.1035.2 73.354.1035.3			
73.350.4035.0 73.350.4035.1 73.350.4035.2 73.350.4035.3	73.352.4035.0 73.352.4035.1 73.352.4035.2 73.352.4035.3	73.355.4035.0 73.355.4035.1 73.355.4035.2 73.355.4035.3	73.357.4035.0 73.357.4035.1 73.357.4035.2 73.357.4035.3	
73.353.4035.0 73.353.4035.1 73.353.4035.2 73.353.4035.3	73.354.4035.0 73.354.4035.1 73.354.4035.2 73.354.4035.3	73.358.4035.0 73.358.4035.1 73.358.4035.2 73.358.4035.3	73.359.4035.0 73.359.4035.1 73.359.4035.2 73.359.4035.3	
73.350.6435.0 73.350.6435.1 73.350.6435.2 73.350.6435.3	73.352.6435.0 73.352.6435.1 73.352.6435.2 73.352.6435.3	73.355.6435.0 73.355.6435.1 73.355.6435.2 73.355.6435.3	73.357.6435.0 73.357.6435.1 73.357.6435.2 73.357.6435.3	
73.353.6435.0 73.353.6435.1 73.353.6435.2 73.353.6435.3	73.354.6435.0 73.354.6435.1 73.354.6435.2 73.354.6435.3	73.358.6435.0 73.358.6435.1 73.358.6435.2 73.358.6435.3	73.359.6435.0 73.359.6435.1 73.359.6435.2 73.359.6435.3	

Modular industrial multipole connectors Housings with double locking levers

revos flex

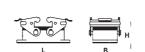


Version a

Version b

Version c

Version d







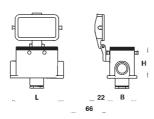












Degrees of protection:

IP 55

 $\ensuremath{\mathbf{IP}}$ 65 with the appropriate cable glands (see the access.)

Open-bottom housing

Version a

Closed-bottom housing with two narrow-side entry cable glands

Version b

Closed bottom housing with one narrow-side entry cable gland on

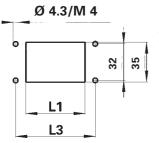
Version c





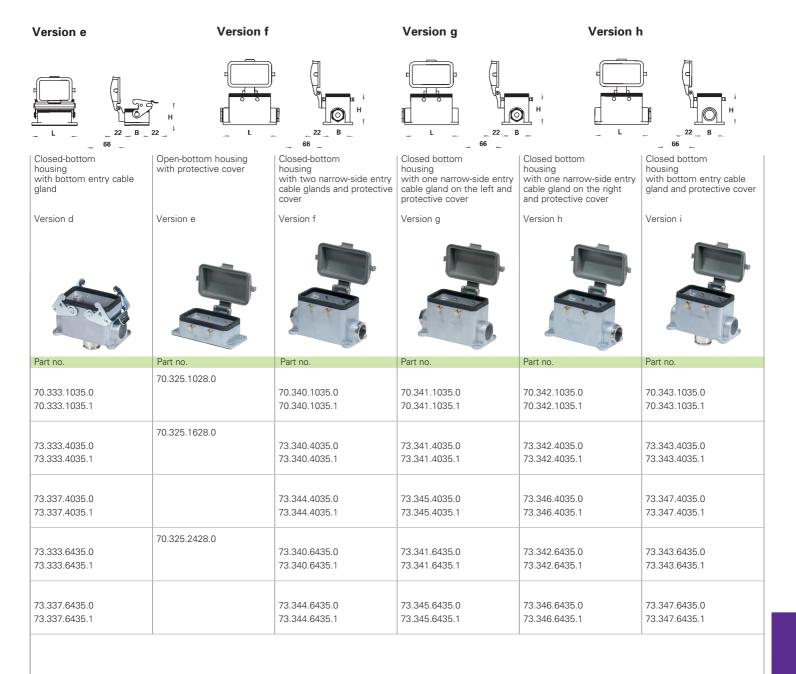


							_		
Number of poles	Thread	Cable gland type	L	W	H Stand. p	oack	Part no.	Part no.	Part no.
Size 10			93	43	28	1	70.320.1028.0		
for 3 modular inserts	M 20	0 with cable gland	94	52	54.5	1		70.330.1035.0	70.331.1035.0
		1 with threaded collar	94	52	54.5	1		70.330.1035.1	70.331.1035.1
Size 16			113	43	28	1	70.320.1628.0		
high design	M 25	0 with cable gland	117	52	76.5	1		73.330.4035.0	73.331.4035.0
for 5 modular inserts		1 with threaded collar	117	52	76.5	1		73.330.4035.1	73.331.4035.1
Size 16		0 with cable gland							
high design	M 32	1 with threaded collar	117	52	76.5	1		73.334.4035.0	73.335.6435.0
for 5 modular inserts			117	52	76.5	1		73.334.4035.1	73.335.6435.1
Size 24		0 with cable gland	140	43	28	1	70.320.2428.0		
high design	M 25	1 with threaded collar	144	52	76.5	1		73.330.6435.0	73.331.4035.0
for 7 modular inserts			144	52	76.5	1		73.330.6435.1	73.331.4035.1
Size 24		0 with cable gland	140	43	28	1			
high design	M 32	1 with threaded collar	144	52	76.5	1		73.334.6435.0	73.335.6435.0
for 7 modular inserts			144	52	76.5	1		73.334.6435.1	73.335.6435.1

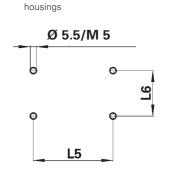


Mounting dimensions and cut-outs for open-bottom housings

Housing size	(mm)	(mm)
10	65	83
16	85.5	103
24	112	130







Mounting dimensions for closed-bottom

Industrial multipole connectors

revos IT

Technical information

■ Applicable standards

■ Hoods and housings

Material

Surface
Clamping screws
Locking levers:
Gaskets
1 cable feed-through
2 cable feed-throughs
Temperature range
Degree of protection
accord. to DIN EN 60 529
with latched locking levers

with appropriate cable glands

IEC 61 984

die cast aluminum alloy silver gray, silicon-free finish galvanically zinc-plated steel Steel, galvanically zinc-plated and dichromated Neoprene (oil-resistant and anti-aging) Cable diameter: 2 – 10 mm Cable diameter: 9 - 15 mm -40 to +100 °C

IP 55 IP 65



Industrial multipole connectors Data cable feed-through revos

The data cable feed-through can be separated.

The two halves, one of which has ring-shaped rubber gaskets, are closed by means of two threaded screws. Inside each of the two halves a special rubber clamping profile properly seals the cables. Three metal clips provide the strain

The data cable feed-through was designed to insert cables into closed housings, tightly and with strain relief, without having to disassemble the connectors. It is the ideal technique for connection cables of PLCs, data cables, measuring and encoder lines.

Each data cable feed-through has three feed-through facilities for cables of different diameters. Feed-through holes which are not used can be sealed with plastic covers.

The data cable feed-through can be snapped onto a 16pole housing without an insert. These housings normally provide enough space to insert the connectors of data cables or measuring lines without a problem.

Technical information

Hood and housing

Die cast aluminum alloy with silicon-free finish in silver gray

Temperature range: -40°C bis +100°C

Clamping screws: galvanically

zinc-plated steel

steel, galvanically Locking levers:

zinc-plated and dichromated

Gaskets: Neoprene

(oil-resistant and

anti-aging)

They meet the degree of protection IP 65 accord. to EN 60 529:

(IEC 60 529: 1989, 2nd edition)

2 cable feed-throughs for cable diameters of 2 mm - 10 mm

1 cable feed-through for cable diameters of 2 mm - 15 mm



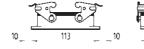




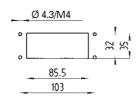


Туре	Part no.	Stand. pack
Data cable feed-through	70.060.1628.0	10
Housing, 16pole	70.320.1628.0	1
Rubber gaskets can be ordered as replacement parts		
Rubber gasket for: Connection range 2 mm – 10 mm Connection range 9 mm – 15 mm	05.562.3183.0 05.562.3283.0	10





Mounting dimensions and cut-outs for open-bottom housings (mm)



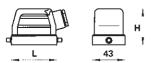
Industrial multipole connectors with single locking levers, 9 to 100pole D-Sub connectors

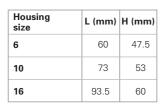
revos IT

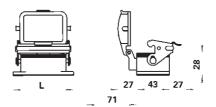


Degrees of protection: IP 55 IP 65 with appropriate cable glands

Pole configuration	Part no.	Stand. pack	Part no.	Stand. pack	Size
v		Housing with female connector		th male connector	
9pole	Z7.415.0010.0		Z7.415.0235.0	10	6
2 x 9 = 18pole	Z7.415.0110.0		Z7.415.0335.0	10	6
15pole	Z7.415.0810.0		Z7.415.1035.0	10	6
2 x 15 = 30pole	Z7.415.0910.0		Z7.415.1135.0	10	6
25pole	Z7.415.1610.0		Z7.415.1935.0	10	10
15 + 25 = 40pole	Z7.415.1810.0		Z7.415.2135.0	10	10
2 x 25 = 50pole	Z7.415.1710.0		Z7.415.2035.0	10	10
37pole	Z7.415.2410.0		Z7.415.2635.0	10	16
2 x 37 = 74pole	Z7.415.2510.0		Z7.415.2735.0	10	16
50pole	Z7.415.3210.0		Z7.415.3335.0	10	16
2 x 50 = 100pole	Z7.415.3410.0		Z7.415.3535.0	10	16







Housing size	L (mm)
6	80
10	93
16	113

Delivery standard:

Hood/housing, D-Sub connector, mounting screws and mounting plates are delivered unassembled.

Hood with M 20 cable gland

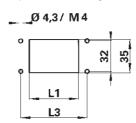
The contacts are nickle-plated and hard-gold-plated in the contact area.

Current carrying capacity per contact with ambient temperatures of:

+ 20 °C + 70 °C + 100 °C

Solder connection max. 0.5 mm² 40 V/1 kV/2 Rated voltage

Mounting dimensions and cut-outs for open-bottom housings (mm)



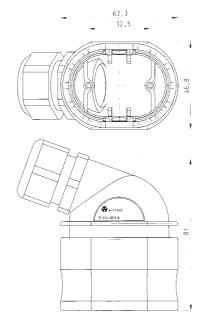
Housing size	L1 (mm)	L3 (mm)
6	52	70
10	65	83
16	85.5	103

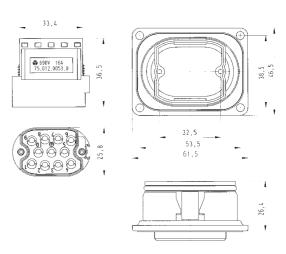
Industrial multipole connectors











600 V UL/CSA **690 V, 16 A** IEC 61 984

mber of poles		Thread	Number of poles	≯Øk in mm	Approvals	Cable entry side	Stand. pack	Part no.
(-11)	Hood with IP 65 cable gland	M 25	10pole			narrow side	10	75.013.0051.0
Contract of the			10pole					
	Hood with compression gland	M 25	10pole			narrow side	10	75.013.0051.2
	Housing		10pole + ground			open-bottom	10	75.013.5051.0
m.	Female insert		10pole + ground		91017		10	75.012.0053.0
	Male insert		10pole + ground		N () SEV		10	75.012.5053.0
	Cable gland, standard	M 25 x 1.5		9 – 16				Z5.507.1453.1
	Cable gland	M 25 x 1.5		13 – 18				Z5.507.1553.1

Contacts for crimp version

Female contacts



Male contacts

-

Crimping tool Crimping die "B" Contact positioner "3" Extraction tool

Ø in mm ²	Part no.	Stand. pack	Ø in mm ²	Part no.	Stand. pack
0.5 0.75 – 1 1.5 2.5	tin-plate 20 AWG 02.123. 18 AWG 02.123. 16 AWG 02.123. 14 AWG 02.123. 12 AWG 02.123.	7021.0 200 7121.0 200 7221.0 200 7321.0 200	0.75 – 1 18 1.5 16 2.5 14	gold-plated AWG 02.123.7001.0 AWG 02.123.7101.0 AWG 02.123.7201.0 AWG 02.123.7301.0 AWG 02.123.7401.0	upon request upon request upon request upon request upon request
0.5 0.75 – 1 1.5 2.5 4	20 AWG 05.543. 18 AWG 05.543. 16 AWG 05.543. 14 AWG 05.543. 12 AWG 05.543.	7121.0 200 7221.0 200 7321.0 200	0.75 – 1 18 1.5 16 2.5 14	AWG 05.543.7001.0 AWG 05.543.7101.0 AWG 05.543.7201.0 AWG 05.543.7301.0 AWG 05.543.7401.0	upon request upon request upon request upon request upon request
	95.101.0 05.502.0 05.502.0 05.502.0	2100.0 1 3300.0 1		silver-plated upon re	equest

Technical information:

Rated current: 16 A

Rated voltage: 690 V Nominal voltage accord. to UL: 600 V Nominal voltage accord. to CSA: 600 V

Rated cross section: 0.5 – 4 mm²

20 - 12 AWG

Pollution degree: 3

Rated

peak voltage 8 kV

Temperature range: $-40 \, ^{\circ}\text{C}$ to $+80 \, ^{\circ}\text{C}$

Flammability accor. to UL 94:

Inserts: V0 hoods/housings: V2

Connection range: 9 – 16 mm

13 – 18 mm

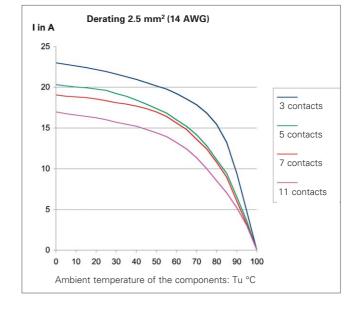
Connection style: crimp connection

Degree of protection: IP 65

Color: inserts in gray RAL 7035

hoods/housings in black RAL 9005

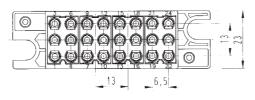
Material: Polyamide

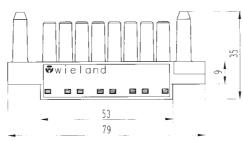


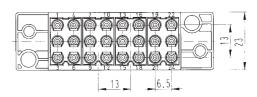
Industrial multipole connectors

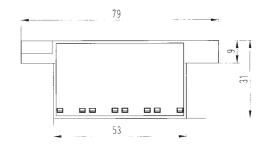
revos SLIDE











250 V 10 A IEC 61 984

	Number of p	poles	Approvals	Stand. pack	Part no.
Female insert	24pole	- HEEFER -	₹ 1 @ pending	100	99.700.6905.5
Male insert	24pole		% pending	100	99.701.6905.5

Contacts for crimp version

Female contacts

Male contacts

Crimping tool Crimping die "B" Contact positioner "3" Extraction tool for the contacts

Ø mm²	Part no.	Stand. pack
1.5 mm ² 16 AWG	silver-plated 02.125.1121.0	100
1.5 mm ² 16 AWG	05.544.5621.0	100
	95.101.0800.0 05.502.2100.0 05.502.3300.0 05.502.3500.0	1 1

Technical information:

Rated current: 10 A

Rated voltage: 250 V

Rated cross section: 1.5 mm²

16 AWG

Pollution degree:

3

Rated

peak voltage

4 kV

Temperature range: -20 °C to +80 °C

Flammability accor.

to UL 94: V0 50 (80) °C see derating

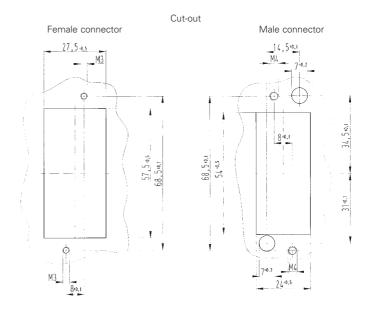
Degree of protection:

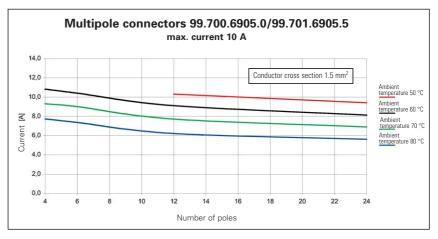
IP 20

Connection style: crimp connection

Material: Polyamide

Approvals: UL/CSA pending





This curve does not apply for intermittent currents

Industrial multipole connectors 6/10/16/24/48pole

revos Ex

Technical information

Approvals

■ Applicable standards

■ Contact inserts

Rated current Rated voltage Pole configurations

Screw connection Degree of pollution Temperature range

■ Contacts

Material Surface

■ Hoods and housings

Material Surface Locking levers Gaskets Temperature range Degree of protection accord. to DIN EN 60 529 BVS IEC 61 984

16 A 90 V 6-, 10-, 16-, 24-, 48pole (2x24), + ground 0.5 – 2.5 mm² / 20 – 12 AWG 3 –40 to +110 °C

copper alloy tin-plated

die cast aluminum alloy light blue, silicon-free finish zinc-plated steel NBR -40 to +110 °C

IP 55



Industrial Multipole Connectors

Industrial multipole connectors 6/10/16/24/48pole

revos Ex



System description

- For applications in mining, machine construction, control and switchgear building, especially for use in intrinsic electrical systems
- BVS-tested and approved
- ☐ Reliable connector elements for power and control current lines
- Outstanding feature: a robust die cast zinc housing, color blue
- Protection of the internal contactinserts against mechanical and hazardous industrial influences
- According to EN 60 529, IEC 60 529, the interlocked hoods and housings provide the degree of protection IP 55 (dust ingress and jet water)

Material

Housing:

☐ Hoods/housings: die cast zinc alloy, with hammer finish in blue

Housing:

- ☐ with open-bottom housing: cable entry at the bottom
- ☐ with closed-bottom housing: narrow-side cable entry
- Connector with open-bottom housing; housing with protective cover attached by hinged joint
- Connector with closed-bottom housing; housing with protective cover attached by hinged joint
- Connector with compression gland

Protective cover

☐ Hoods and housings with / without hinged protective cover

DQS certificates for all product families

- Quality standard as per DIN ISO 9001
- ☐ in Development, Production, Assembly
- Continued control of the quality standard by means of regular internal and external quality audits
- Compatible with certificates of other countries:
- BSI Certificate, Great Britain
- SQS Certificate, Switzerland
- Aib-Vincotte Certificate, Belgium
- ÖQS Certificate, Austria



Cable to cable couplings

- Iow and high designs
- ☐ Locking with 1 lever on the broad side (6pole and 48pole)
- ☐ Locking with 2 levers on the narrow side (10, 16 and 24pole)

Female and male connector inserts:

☐ Insulating parts made from fiberglass reinforced Polyamide (technical information: see **facts** & DATA)



☐ Combination with flat open-bottom housing in die cast zinc alloy

☐ Combination with high closed-bottom housing in die cast zinc alloy

 Combination with low open-bottom housing in die cast zinc alloy with protective cover

Combination with high closed-bottom housing in die cast zinc alloy with protective cover

☐ Combination of 2 hoods as cable to cable coupling, with narrow-side locking levers, die cast zinc alloy

Industrial multipole connectors Female/male inserts

revos Ex



90 V

Degree of protection: IP 55

Multipole connectors for intrinsic systems EEx ia, color: blue

		Rated current	Cross section	Approvals	Wire strip length	Stand. pack
Screw connection	Female insert	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	EExia	7 mm	10
Screw connection	Male insert	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	EExia	7 mm	10
766						

6pole + ground	10pole + ground	16pole + ground	24pole + ground	48pole + ground	
Part no.	Part no.	Part no.	Part no.	Part no.	
72.300.0653.9	72.300.1053.9	72.300.1653.9	72.300.2453.9	72.300.4853.9	
72.310.0653.9	72.310.1053.9	72.310.1653.9	72.310.2453.9	72.310.4853.9	
	1	I.	<u> </u>	I.	76

Modular industrial multipole connectors Hoods with single and double locking levers

revos Ex





Version A





Version C





90 V

Degree of protection: IP 55

Multipole connectors for intrinsic systems EEx ia

Number of poles	Thread	Cable gland type	Dimensions in mm	L	W	H Stand	d. pack
Size 6 for multipole connectors	Pg 13.5	7 with Pg thread9 with strain relief		60	43	47.5	1
6pole + ground	Pg 16	7 with Pg thread 9 with strain relief		60	43	47.5	1
Size 10 for multipole connectors	Pg 16	7 with Pg thread 9 with strain relief		73	43	53	1
10pole + ground	Pg 21	7 with Pg thread 9 with strain relief		73	43	53	1
Size 16 for multipole connectors	Pg 21	7 with Pg thread 9 with strain relief		93.5	43	60	1
16pole + ground	Pg 29	7 with Pg thread 9 with strain relief		93.5	43	60	1
Size 24 for multipole connectors	Pg 21	7 with Pg thread 9 with strain relief		120	43	70	1
24pole + ground	Pg 29	7 with Pg thread 9 with strain relief		120	43	70	1
Size 48 for multipole connectors	Pg 29	7 with Pg thread 9 with strain relief		132	90	107	1
48pole + ground	Pg 32	7 with Pg thread 9 with strain relief		132	90	107	1

Version D







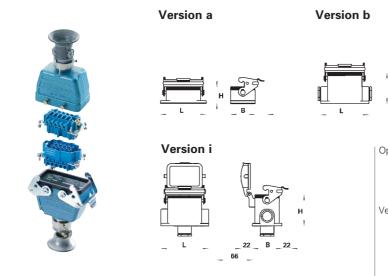




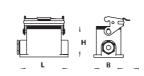
Hood with cable gland	Hood with cable gland	Hood with cable gland and locking levers	Hood with cable gland and locking levers	
Version A	Version C	Version D	Version F	
Part no.	Part no.	Part no.	Part no.	
70.350.0628.7 70.360.0628.9	70.352.0628.7 70.362.0628.9			
70.363.0628.9	70.354.0628.7 70.364.0628.9			
70.350.1028.7 70.360.1028.9	70.352.1028.7 70.362.1028.9	70.355.1028.7 70.365.1028.9	70.367.1028.9	
70.363.1028.9	70.354.1028.7 70.364.1028.9	70.368.1028.9	70.369.1028.9	
70.350.1628.7 70.360.1628.9	70.352.1628.7 70.362.1628.9	70.355.1628.7 70.365.1628.9	70.367.1628.9	
70.363.1628.9	70.354.1628.7 70.364.1628.9	70.368.1628.9	70.359.1628.7 70.369.1628.9	
70.350.2428.7 70.360.2428.9		70.365.2428.9	70.367.2428.9	
70.363.2428.9	70.354.2428.7	70.358.2428.7 70.368.2428.9		
70.350.4828.7 70.360.4828.9	70.352.4828.7 70.362.4828.9			
70.353.4828.7	70.354.4828.7 70.364.4828.9			

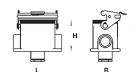
Modular industrial multipole connectors Housings with single and double locking levers

revos Ex









Open-bottom housing housing with two narrow-side entry cable glands Version a

Closed bottom housing with one narrow-side entry cable gland on

Version b

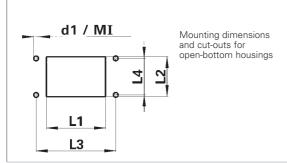


Version c



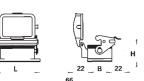
Degree of protection: IP 55 90 V

30 V	Multipole	connectors for intrinsic	systen	ns El	Ex ia			
Number of poles	Thread	Cable gland type	L	W	H Stand. pack	Part no.	Part no.	Part no.
Housing size 6 for multipole connectors		9 with cable gland	80	43	28 1	70.320.0628.9		
6pole + ground	Pg 16		84	52	54.5 1		70.330.0628.9	70.331.0628.9
Housing size 10 for multipole connectors		9 with cable gland	93	43	28 1	70.320.1028.9		
10pole + ground	Pg 16		94	52	54.5 1		70.330.1028.9	70.331.1028.9
Housing size 16 for multipole connectors 16pole + ground			113	43	28 1	70.320.1628.9		
Housing size 24 for multipole connectors		9 with cable gland	140	43	44 1	70.320.2428.9		
24pole + ground	Pg 21		144	52	56.5 1		70.330.2428.9	70.331.2428.9
Housing size 48 for multipole connectors			165	90	44 1	70.320.4828.9		
48pole + ground	Pg 29	9 with cable gland	146	120	99 1			70.331.4828.9
	Pg 36	9 with strain relief	146	120	99 1			

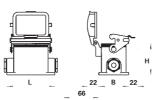


Housing size	Cut-out (mm)		Mounting dimensions (mm)			
Trousing size	L1	L2	L3	L4	d1 (mm)	MI
6	52	35	70	32	4.3	M 4
10	65	35	83	32	4.3	M 4
16	85.5	35	103	32	4.3	M 4
24	112	35	130	32	4.3	M 4
48	117	81	148	70	6.4	M 6

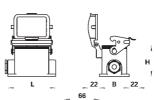
Version e



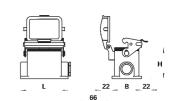
Version f



Version g



Version h



Closed-bottom housing with bottom entry cable gland

Version d



Version e

Open-bottom housing with protective cover

Closed-bottom housing with two narrow-side entry cable glands and protective cover

Version f



Closed bottom

housing with one narrow-side entry cable gland on the left and protective cover

Version g



Closed bottom

housing with one narrow-side entry cable gland on the right and protective cover

Version h



Closed bottom housing with bottom entry cable

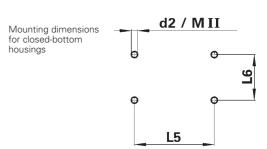
gland and protective cover

Version i



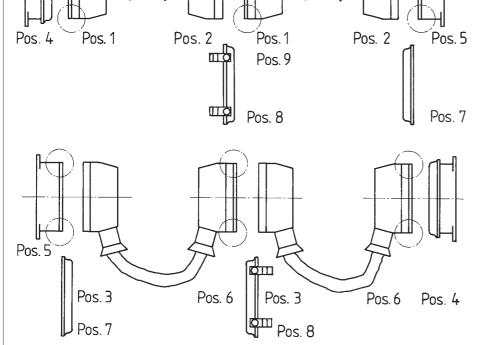
Part no. 70.325.0628.9	Part no.	Part no.		
70 225 0629 0		Part no.	Part no.	Part no.
70.323.0028.9				
	70.340.0628.9	70.341.0628.9	70.342.0628.9	70.343.0628.9
70.325.1028.9				
	70.340.1028.9	70.341.1028.9	70.342.1028.9	70.343.1028.9
70.325.1628.9				
70.325.2428.9				
	70.340.2428.9	70.341.2428.9	70.342.2428.9	70.343.2428.9
70.325.4828.9				
		70.341.4828.9		
		70.344.4828.9		
	70.325.1628.9 70.325.2428.9	70.325.1028.9 70.325.1628.9 70.325.2428.9 70.340.2428.9	70.325.1028.9 70.325.1628.9 70.325.2428.9 70.325.2428.9 70.325.4828.9 70.325.4828.9 70.341.4828.9	70.325.1028.9 70.340.1028.9 70.341.1028.9 70.342.1028.9 70.325.1628.9 70.325.2428.9 70.341.2428.9 70.342.2428.9 70.325.4828.9 70.341.4828.9 70.341.4828.9

Housing size	L5 (mm)	L6 (mm)	d2 (mm)	MII
6	70	40	5.5	M 5
10	82	40	5.5	M 5
16	105	45	5.5	M 5
24	132	45	5.5	M 5
48	111	106	6.5	M 6



Special combinations for cable to cable couplings TEVOS Ex

		Female insert	Male insert	Hood with strain relief, with locking levers and gasket	Hood with strain relief without locking levers
				Pos. 1	Pos. 2
Number of poles	Cable entry size	Part no.	Part no.	Part no.	Part no.
6 + ground 6 + ground 10 + ground 10 + ground 16 + ground 24 + ground 48 + ground	Pg 13.5 Pg 16 Pg 16 Pg 21 Pg 21 Pg 29 Pg 29 Pg 29	72.300.0653.9 72.300.1053.9 72.300.1053.9 72.300.1653.9 72.300.1653.9 72.300.2453.9 72.300.4853.9	72.310.0653.9 72.310.0653.9 72.310.1053.9 72.310.1053.9 72.310.1653.9 72.310.1653.9 72.310.2453.9 72.310.4853.9	99.701.3329.7 99.721.3329.7 99.707.3329.7 99.703.3329.7 99.703.3329.7 99.705.3329.7 70.377.4828.9	70.362.0628.9 70.364.0628.9 70.362.1028.9 70.364.1028.9 70.362.1628.9 70.364.1628.9 70.362.2428.9 70.375.4828.9



Mounting examples

evos

revos

Hood with strain relief without locking levers

Pos. 3



Open-bottom housing with protective cover gasket in the cover



Open-bottom housing with locking levers, with gasket

Pos. 5



Hood with strain relief with locking levers and gasket

Pos. 6



Hood with Pg thread only, with locking levers, with gasket

Pos. 9 (do not combine with pos. 4)

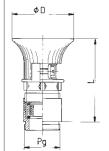


Hood with Pg thread only, without locking levers

Pos. 2



			•	()	
Part no.					
70.360.0628.9	99.700.3329.7	70.320.0628.9	99.710.3329.7	70.372.0628.7	70.352.0628.7
70.363.0628.9	99.700.3329.7	70.320.0628.9		_	70.354.0628.7
70.360.1028.9	99.706.3329.7	70.320.1028.9	99.711.3329.7	70.372.1028.7	70.352.1028.7
70.363.1028.9	99.706.3329.7	70.320.1028.9	_	_	70.354.1028.7
70.360.1628.9	99.702.3329.7	70.320.1628.9	99.713.3329.7	70.372.1628.7	70.352.1628.7
70.363.1628.9	99.702.3329.7	70.320.1628.9	_	_	70.354.1628.7
70.360.2428.9	99.704.3329.7	70.320.2428.9	99.716.3329.7	70.372.2428.7	70.352.2428.7
70.360.4828.9		70.320.4828.9		70.372.4828.7	70.352.4828.7



☐ Strain relief screw with locking ring

Part no.	Cable siz	Ø (mm)	
Part no.	L	Pg	Ø D
Z5.509.0529.0	44.6	13.5	35
Z5.508.8129.0	56.6	16	35
Z5.508.8229.0	63.1	21	35
Z5.508.8329.0	66.6	29	35
Z5.509.0829.0	89.6	36	81

Industrial multipole connectors

Accessories

revos



For hoods with cable glands or flared cable entries and strain reliefs we provide locking rings in the size of the various cable entries to lock the pressure screw.



Locking ring

After the pressure screw is tightened, the locking ring is slid over the hexagon head of the pressure screw and is fixed to the compression gland by means of a pan head screw. The pressure screw is now protected against accidental loosening.



If several connectors of the same pole configuration have to be mounted adjacent to each other, coding fixtures prevent them from being mismated. Only matching female and male parts can be connected. (4 coding options).

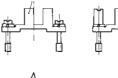
Coding pins enable six unique combinations.

Coding fixtures in combination with special coding pins provide 24 codings according to the following plan (part no. $\bf Z5.593.4053$): (not applicable for the versions 72.3 and 72.7)



For part no. see page 788





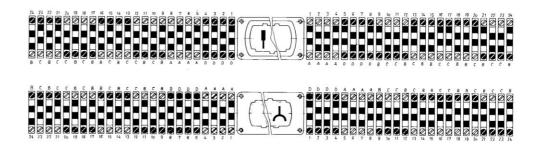


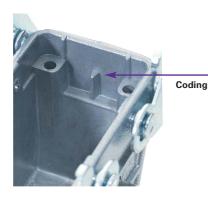






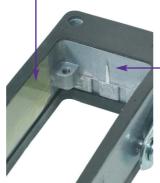






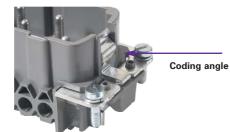
The hoods and housings for 400 V inserts are coded, so that the female and male inserts for the series of 690/400 V and 690 V cannot be mounted to them.

Insulating tape



The coding ribs of the hoods and housings of series 690/400 V and 690 V were removed. Additionally, two insulating tapes are attached inside these hoods and housings.

Coding removed



The female and male inserts of series 690/400 V and 690 V are equipped with coding angles. They prevent that the female and male inserts of this series are mounted to the hoods and housings for 400 V.

The 3pole, 6pole and 10pole inserts of series 690/400 V have a coding fixture which prevents that they are plugged together with 400 V male inserts.



Insulated jumper bar for multipole adapters (see page 781)

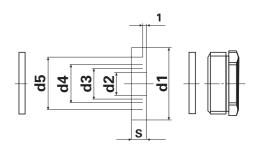


Marking tag carrier with 6 digits for open-bottom housings (see page 790) (without marking tags)

Accessories for multipole connectors and multipole adapters Metric cable threads

revos





Cable gland nickel-plated brass, with circular compression gland, IP 54 degree of protection

Metric thread	d1	d2	≯Øk in mm	d3	≯Øk in mm	d4	Mm ni N⊗k	d5	mm ni NØK	Part no.	Stand. pack
M 16	13.8	3	2.0 - 4.5	6	5.0 - 7.5	9	8.0 - 10.5	-	_	Z5.507.2121.0	10
M 20	17.6	4	3.0 - 5.5	7	6.0 - 8.5	10	9.0 – 11.5	13	12.0 - 14.5	Z5.507.2221.0	10
M 25	22.6	8.5	7.5 – 10.0	11.5	10.5 - 13.0	14.5	13.5 - 16.0	17.5	16.5 – 19.0	Z5.507.2321.0	10
M 32	29.6	16	15.0 – 17.5	19	18.0 - 20.5	22	21.0 - 23.5	25	24.0 - 26.5	Z5.507.2421.0	10



Cable gland nickel-plated brass, with internal strain relief and gasket on the connection thread IP 68 degree of protection

Metric thread	≯Øk in mm	₩mm	Thread length in mm	Part no.	Stand. pack
M 20 x 1.5	8.0 - 13.0	22	6	Z5.507.1321.0	10
M 25 x 1.5	11.0 – 18.0	27	7	Z5.507.1521.0	10
M 32 x 1.5	15.0 - 21.0	34	8	Z5.507.1721.0	10
M 40 x 1.5	19.0 – 27.0	44	8	Z5.507.1921.0	10

Hoods and housings with a cable gland from brass and IP 68 degree of protection can be preassembled upon request and for minimum order quantities of 50 pieces.



Plastic cable gland Polyamide, gray (RAL 7035), with strain relief IP 68 degree of protection

Metric thread	≯Øk in mm	₩ mm	Thread length in mm	Part no.	Stand. pack
M 20 x 1.5	6.0 - 12.0	24	9	Z5.507.1353.0	10
M 25 x 1.5	7.0 – 16.0	28	11	Z5.507.1553.0	10
M 32 x 1.5	10.0 – 21.0	36	11	Z5.507.1753.0	10
M 40 x 1.5	16.0 – 28.0	46	11	Z5.507.1953.0	10

For the use of plastic glands, the housings of size 6 must have a compression gland.



Cable gland nickel-plated brass, with hexagon port on the compression gland, pressure screw with strain relief and protection against bending, IP54 degree of protection

Metric thread	≯Øk in mm	gland mm	Thread length in mm	Part no.	Stand. pack
M 16 x 1.5	6.0 - 9.0	18	5	Z5.507.9521.0	10
M 20 x 1.5	9.0 - 13.5	22	6	Z5.507.9621.0	10
M 25 x 1.5	14.0 - 20.0	30	7	Z5.507.9721.0	10
M 32 x 1.5	19.0 - 29.0	39	8	Z5.507.9821.0	10



EMC cable gland nickel-plated brass, for shielded cables, with internal strain relief, consistently insulated by a gasket on the connection thread, IP 68 degree of protection

Metric thread	≯Øk in mm	₩ mm	Thread length in mm	Part no.	Stand. pack
M 20 x 1.5	8.0 – 13.0	22	6	Z5.507.4821.0	10
M 25 x 1.5	11.0 – 18.0	30	7	Z5.507.5021.0	10
M 32 x 1.5	15.0 – 21.0	34	8	Z5.507.5221.0	10



Cable gland nickel-plated brass, with hexagon port on the compression gland, pressure screw with centric strain relief and protection against bending, with universal gasket

Metric thread	≯Øk in mm	₩ mm	Thread length in mm	Part no.	Stand. pack
M 20 x 1.5	8.5 - 14.0	24	6	Z5.507.5821.0	10
M 25 x 1.5	12.0 - 20.0	34	7	Z5.507.6021.0	10
M 32 x 1.5	18.0 - 28.0	42	8	Z5.507.6221.0	10
M 40 x 1.5	24.0 - 34.0	52	8	Z5.507.6421.0	10

Hoods and housings with a cable gland from brass and IP 68 degree of protection can be preassembled upon request and for minimum order quantities of 50 pieces.

Accessories for multipole connectors and multipole adapters

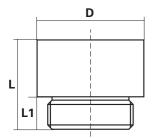






Reduction piece, nickel-plated brass

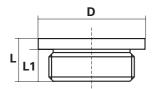
External thread	Internal thread	D	L1	L	Part no.	Stand. pack	
M 20 x 1.5	M 16 x 1.5	22	6	9	05.507.9021.0	10	
M 25 x 1.5	M 20 x 1.5	27	7	10	05.507.9121.0	10	
M 32 x 1.5	M 25 x 1.5	34	8	11	05.507.9221.0	10	
M 40 x 15	M 32 x 1 5	43	8	11.5	05 507 9321 0	10	





Extension piece, nickel-plated brass

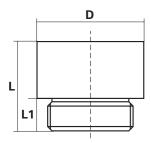
External thread	Internal thread	D	L1	L	Part no. S	tand. pack
M 16 x 1.5	M 20 x 1.5	22	5	17,5	05.507.8621.0	10
M 20 x 1.5	M 25 x 1.5	27	6	20	05.507.8721.0	10
M 25 x 1.5	M 32 x 1.5	34	7	22,5	05.507.8821.0	10
M 32 x 1.5	M 40 x 1.5	42	8	24,5	05.507.8921.0	10



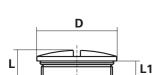


Adapter for PG-metric conversion, nickel-plated brass

	o ,						
External thread	Internal thread	D	L1	L	Part no. S	tand. pack	
Pg 13.5	M 20 x 1.5	26	6.5	19	05.507.7621.0	10	
Pg 16	M 20 x 1.5	24	6.5	9.5	05.507.7721.0	10	
Pg 21	M 25 x 1.5	30	7	10	05.507.7821.0	10	









Adapter for metric-PG conversion, nickel-plated brass

External thread	Internal thread	D	L1	L	Part no.	Stand. pack
M 20 x 1.5	Pg 13.5	22	6	18.5	05.507.8121.0	10
M 20 x 1.5	Pg 16	24	6	19.5	05.507.8221.0	10
M 25 x 1.5	Pg 21	30	7	22	05.507.8321.0	10
M 32 x 1.5	Pg 29	39	8	24.5	05.507.8421.0	10

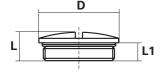
Adapter metric - NPT: Electroless nickel-plated aluminium

M 20 x 1.5 - 1/2" NPT	24	7	25	M20N02MA	10	
M 20 x 1.5 – 3/4" NPT	30	7	25	M20N04MA	10	
M 25 x 1.5 – 1/2" NPT	27	7	21	M25N02MA	10	
M 25 x 1.5 – 3/4" NPT	30	7	25	M25N04MA	10	
M 25 x 1.5 – 1" NPT	36	7	26.5	M25N06MA	10	
M 32 x 1.5 – 1" NPT	36	7	26.5	M32N06MA	10	

Blind piece,

metric, nickel-plated brass, with gasket from Perbunan

Metric thread	D	L1	L	Part no.	Stand. pack	
M 20 x 1.5	22	6.5	9.5	05.507.4021.0	10	
M 25 x 1.5	28	7	11	05.507.4121.0	10	
M 32 x 1.5	35	8	12	05.507.4221.0	10	
M 40 x 1.5	44	8.5	13	05.507.4321.0	10	





Blind piece,

metric, fibreglass reinforced Polyamide, gray

Metric thread	D	L1	L	Part no. Stand. pack
M 20 x 1.5	24	6	9	05.507.4053.0 10
M 25 x 1.5	30	7	10.5	05.507.4153.0 10
M 32 x 1.5	38	8	12	05.507.4253.0 10
M 40 x 1.5	48	9	13	05.507.4353.0 10

Accessories for multipole connectors and multipole adapters Protective covers



for the housing	s 73.3xx.xxxx.x	70.3xx.xxxx.x	72.3xx.xxxx.x	Part no.	Stand. pack
for the nousing	S /3.3xx.xxxx.x				
		6pole	6pole	07.409.7056.0	10
		10pole	10pole	07.409.7156.0	10
	40pole	16pole	16pole	07.409.7256.0	10
	64pole	24pole	24pole	07.409.7356.0	10
Protective Polyamide covers for hoods					
and housings with locking levers					
with tether cord	40pole	16pole	16pole	Z7.409.8856.0	10
With tetrier cord	•				10
	64pole	24pole	24pole	Z7.409.8956.0	
	10	40 1	10	77 440 4050 0	4.0
with tether cord and loop	40pole	10pole	10pole	Z7.416.1656.0	10
	64pole	16pole	16pole	Z7.416.1756.0	10
		24pole	24pole	Z7.416.1856.0	10
a a					
		6pole	6pole	Z7.409.7056.0	10
		10pole	10pole	Z7.409.7156.0	10
	40pole	16pole	16pole	Z7.409.7256.0	10
	64pole	24pole	24pole	Z7.409.7356.0	10
	3.00.0	50.0	po.o	_,	. •
6					
- ₽					
Protective cover from Polyamide with catch					
spring from spring steel, galvanically tin-plated for					
hoods and housings without locking lever					
	_ 82.5 _				
	d				
	′ d 				
	18				
	\sim				
Protective cover for 32pole housing			32pole	Z7.419.6228.0	10
	82.5				
	d				
	/ (LLL) . (V2)				
),,,				
	\sim				
Protective cover for 32pole housing with locking level	r		00 1	77 440 04	40
			32pole	Z7.419.6128.0	10
Community to a time the fact to the control of the					
Cover with lockingbolts for housings and hoods with			Plastic	07.417.6853.0	
locking levers for revos MINI with gaskets for female inserts			Metal	07.417.6829.0	
			* **		
100					
Cover with lockingbolts for housings and hoods with					
locking levers for revos MINI without gaskets for			Plastic	07.417.6753.0	
female inserts			Metal	07.417.6729.0	

	Number of poles	Part no.	Stand. pack
	2pole	Z7.256.0227.0	10
	3pole	Z7.256.0327.0	10
	4pole	Z7.256.0427.0	10
	5pole	Z7.256.0527.0	10
	6pole	Z7.256.0627.0	10
	7pole	Z7.256.0727.0	10
	8pole	Z7.256.0827.0	10
_	9pole	Z7.256.0927.0	10
	10pole	Z7.256.1027.0	10
sulated jumper bar for multipole adapters of series	11pole	Z7.256.1127.0	10
xx.xxx.xxxx.3 and xx.xxx.xxxx.4	12pole	Z7.256.1227.0	10
	2pole	Z7.258.1225.0	10
	3pole	Z7.258.1325.0	10
	4pole	Z7.258.1425.0	10
	5pole	Z7.258.1525.0	10
	6pole	Z7.258.1625.0	10
	7pole	Z7.258.1725.0	10
	8pole	Z7.258.1825.0	10
	9pole	Z7.258.1925.0	10
	10pole	Z7.258.2025.0	10
isulated jumper bar for high-density nultipole adapters	· ·		



Marking tag carrier for housings 04.242.4453.0 250 with 6 digits (without marking tags)



 Marking tag carrier complete with carrier
 40pole
 Z4.242.3753.0
 10

 (without marking tags)
 64pole
 Z4.242.4053.0
 10



Marking tag carrier for hoods (without marking tags) to be driven in with a rubber mallet into the space on top of the hood

04.242.3853.0

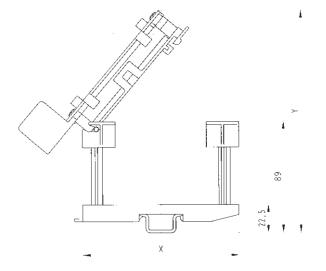
Accessories Mounting frames for connector inserts



250 V IEC 01 964	10 A			
			Length	Part no. Stand. pack
	Size 6	Mounting frame with strain relief	125	Z5.574.0653.0 1
	Size 10	Mounting frame with strain relief	125	Z5.574.1053.0 1
	Size 16	Mounting frame with strain relief	125	Z5.574.1653.0 1
	Size 24	Mounting frame with strain relief	150	Z5.574.2453.0 1
	Size 2 x 6	Mounting frame with strain relief	150	Z5.574.1253.0 1
	Sizes 6/10/16 Size 24	Mounting frame with base plate andfixing bolts for open-bottom housings	125	Z5.574.0053.0 1 Z5.574.0153.0 1



- Easy and direct wiring
- High stability and guaranteed function
- Degree of protection provided by the control cabinet
- Rewiring without disconnecting



- Mounts to rail 35 x 15
- Swivels by 80° when connected
- Swivels by 120° when disconnected

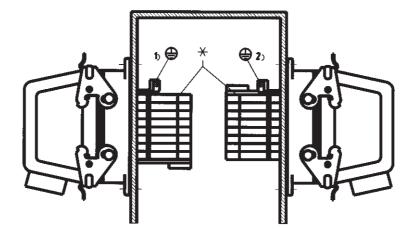


Mounting frame with base plate and fixing bolts for open housings

Accessories for multipole connectors and multipole adapters Cover plates and reduction plates

	Housing size	Number of poles	Part no.	Stand. pack
Cover plates	Housing size 6 10 16 24	Number of poles	Part no. 07.416.6853.0 07.416.6953.0 07.416.7053.0 07.416.7153.0	Stand. pack 10 10 10 10 10
Cover plates to close prefabricated cut-outs in bulkhead walls of control cabinets				
Material Polyamide, fiberglass reinforced Color RAL 7032 Degr. of prot. IP 65				
Reduction plates				
	24/ 6 24/10 24/16		07.416.6353.0 07.416.6453.0 07.416.6553.0	10 10 10
Reduction plates to reduce prefabricated cut-outs of size 24 in bulkhead walls of control cabinets				
Material Polyamide, fiberglass reinforced Color RAL 7032 Degree of prot. IP 65				

Definition for multipole adapters Ground connection



- Start of the markings 1 through Multipole adapter in the version: ground connection left Multipole adapter in the version: ground connection right

Coding options with coding pins



The coding pins of version A can be used for:

☐ Screw inserts with part no.:

70.2XX.XXXX.X 70.3XX.XXXX.X 70.4XX.XXXX.X 72.2XX.XXXX.X 72.3XX.XXXX.X

 $\hfill\Box$ Crimping inserts with part no.:

70.7XX.XXXX.X 72.7XX.XXXX.X 73.7XX.XXXX.X

 $\hfill \square$ Spring clamp inserts with part no.:

70.5XX.XXXXX.X

☐ Multipole adapters (mounting to the front) with part no.:

70.0XX.XXXX.X 70.1XX.XXXX.X 72.0XX.XXXX.X 72.1XX.XXXX.X 73.9XX.XXXX.X

Codings are possible even for combinations of screw and crimping inserts, and multipole adapters.

The coding pins of version B can be used for:

Combinations of screw, crimping and spring clamp inserts, and multipole adapters, combined with multipole adapters (mounting to the rear of the housings) with

part no.: 70.9XX.XXXX.X

72.9XX.XXXX.X 73.1XX.XXXXX.X

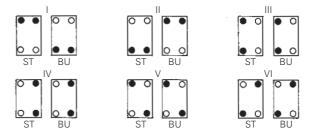
1) Six coding options with coding pins

Coding pins

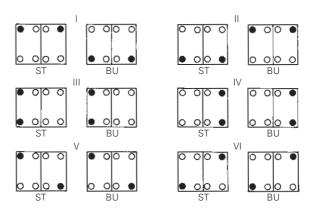
Order no. for version A: 05.592.0621.0 100

05.513.4212.0 100

The use of coding pins enables six combinations for 3pole, 6pole, 10pole, 16pole and 24pole multipole connectors



and six combinations for 20, 26, 32 and 48pole multipole connectors



- Coding pins
- Fixing screws

- ST = male connector part
- BU = female connector part

2) 72) Coding options with coding pins

Part no. for version A:

A Coding bolts

05.576.6912.0*

•

Coding pin

05.576.6612.0*

Female

coding piece

05.576.6712.0*

Part no. for version B:

Coding bolts

05.576.8512.0

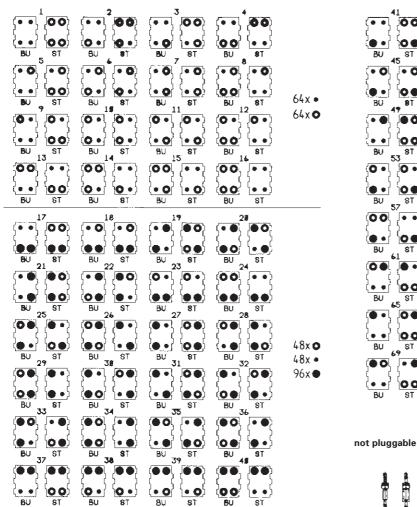
Coding pin

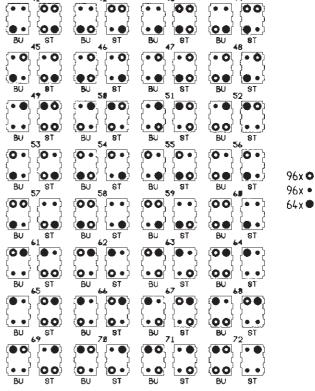
05.576.8312.0

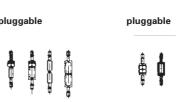
Female coding piece

05.576.8412.0

Coding







^{*)} for 15pole or 25pole connectors of series 73.7... we provide only16 different codings, as the coding bolts cannot be used.

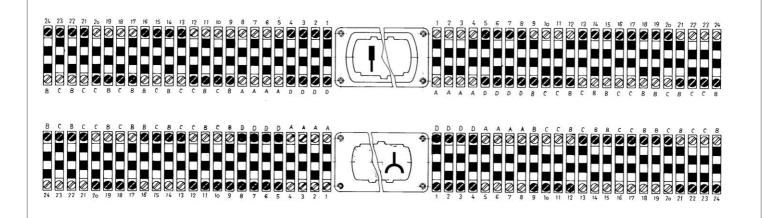
Accessories for multipole connectors and multipole adapters Coding options with coding pieces



Coding with coding pieces for: • Screw inserts with part no.: 70.3xx.xxxx.x und 70.4xx.xxxx.x Crimping inserts with part no.:Multipole adapters 70.7xx.xxxx.x (mounting to the front) with part no.: 70.1xx.xxxx.x Codings are possible even for combinations of screw and crimping inserts, and multipole adapters. 1. Diagram for 4 codings with coding pieces 2. Diagram for 24 codings with coding pieces 16 * 25 593.3663 27 · 25 593 3763 37 75 593 3853 6 * 25 593 3953 **Ø** Material Coding pieces from Polyamide Z5.592.1252.0 50 Steel, galvanically zinc-plated and dichromated screws When the coding pieces are attached to the connectors in a special order, you will get four different combinations, and only the matching inserts or multipole Z5.593.4053.0

Coding pieces and special coding pins for 24 different codings

Coding pieces and special coding pins for 24 different codings



Accessories for multipole adapters Marking accessories

revos

Material: Polyamide 66/6

Color: black figures on white background









45° marking tag carrier

Marking tag 3 digits

Single tag

Marking strip 6pole through 24pole

				opolo tili oug		
Туре	Part no. Stand. pack	Туре	Part no. Stand. pack	Type	Part no. Stand. pack	
2 x 4digit		unmarked		6pole, marked 2 x	6pole, marked 2 x 1 through 6	
9705 A/4 W	04.242.2853.0 200	9705 A	04.242.0850.0 500	9705 A/6,7/2x6 B1-6	99.002.0920.8 25	
		marked*	marked*		10pole, marked 1 through 10	
				9705 A/6,7/2x12 B1-10	99.003.0920.8 25	
		9705 AB	04.842.0850.0 500	16pole, marked 1	through 8 and 9 through 16	
		* Please indicate the required marking		9705 A/6,7/2x12 B1-16	99.004.0920.8 25	
			together with the part number!		24pole, marked 1 through 12 and 13 through 24	
				9705 A/6,7/2x12 B1-24	99.005.0920.8 25	
		Standard pack =	500 tags			
			12 di		2 digits, unmarked	
				9705 A/6,7/12	04.242.6753.0 25	
					12 digits, marked	
				9705 A/6,7/12 B	04.842.6753.0 25	
					12 digits, marked 1 - 9	
				9705 A/6,7/12 B 1-9	99.000.0920.8 25	
				unmarked 9705 A/5/10	04.242.5053.0 25	
90° marking tag carrier		Marking tag		marked		
30 Illaikili	g tag carrier	8 digits	Single tag	9705 A/5/10 B	04.842.5053.0 25	
		unmarked		unmarked		
0 41::4	04 040 0050 0 000	9705 AL	04.242.1553.0 500	9705 AL/5/10	04.242.5153.0 25	
6 digits	04.242.3053.0 200	3703 AL	04.242.1000.0 000	marked		
mounted in line t		marked*		9705 AL/5/10	04.842.5153.0 25	
	pter 04.242.3353.0 50	9705 ALB	04.842.1553.0 500	070071270710	0 1.0 12.0 100.0	
	lapter 04.242.3453.0 50	3703 ALD	04.842.1353.0 500			
16pole multip. adapter 04.242.3553.0 25 24pole multip. adapter 04.242.3653.0 25		* Please indicate t	* Please indicate the required marking together with the part number!		* Please indicate the required marking * together with the part number!	
		together with th				
		Standard pack =	Standard pack = 500 tags			

Accessories for multipole connectors and multipole adapters Tear-off marking strips / marking tags







Material: Polyamide 66/6 white, marking in black Marking per strip	o										Туре	Part no. Stand	. pack
unmarked											9704 A	04.241.1150.0	25
marked with the same number	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8	9704 A/1 B 9704 A/2 B 9704 A/3 B 9704 A/4 B 9704 A/5 B 9704 A/6 B 9704 A/7 B 9704 A/8 B 9704 A/9 B 9704 A/9 B	04.841.1150.0 04.841.1250.0 04.841.1350.0 04.841.1450.0 04.841.1650.0 04.841.1750.0 04.841.1750.0 04.841.1950.0 04.841.2050.0	25 25 25 25 25 25 25 25 25 25 25 25 25
marked with consecutive numbers	1	2	3	4	5	6	7	8	9	0	9704 A/1-0 B	04.841.2150.0	25
marked with the same capital letters	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A B C D E F G H I J K L M N O P Q R S T U V V V V V V V V V V V V V V V V V V	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A B C D E F G H I J K L M N O P Q R S T U V V V V V V V V V V V V V V V V V V	A B C D E F G H I J K L M N O P Q R S T U V V V V V V V V V V V V V V V V V V	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	9704 A/AG B	04.841.2250.0 04.841.2350.0 04.841.2450.0 04.841.2550.0 04.841.2550.0 04.841.2750.0 04.841.2950.0 04.841.3050.0 04.841.3350.0 04.841.3350.0 04.841.3450.0 04.841.3550.0 04.841.3550.0 04.841.3550.0 04.841.3550.0 04.841.3550.0 04.841.3550.0 04.841.3550.0 04.841.3550.0 04.841.3550.0 04.841.3550.0 04.841.3550.0 04.841.3550.0 04.841.3550.0 04.841.3550.0 04.841.4550.0 04.841.4550.0 04.841.4550.0 04.841.4550.0 04.841.4550.0 04.841.4550.0 04.841.4550.0 04.841.4550.0 04.841.4550.0 04.841.4550.0 04.841.4550.0	25 25 25 25 25 25 25 25 25 25 25 25 25 2
marked with the same small letters marked with the same symbols	a b c c d e f g h i j k l m n o p q r s t u v w x y z z + -	a b c d e f g h i j k l m n o p q r s t u v w x y z + -	a b c d e f g h i j k l m n o p q r s t u v w x y z +	a b c d e f g h i j k l m n o p q r s t u v w x y z +	a b c d e f g h i j k l m n o p q r s t u v w x y z + -	a b c d e f g h i j k l m n o p q r s t u v w x y z + -	a b c d e f g h i j k l m n o p q r s t u v w x y z +	a b c d e f g h i j k l m n o p q r s t u v w x y z +	a b c d e f g h i j k l m n o p q r s t u v w x y z +	a b c d e f g h i j k I m n o p q r s t u v w x y z + -	9704 A/AK B 9704 A/BK B 9704 A/BK B 9704 A/CK B 9704 A/CK B 9704 A/EK B 9704 A/EK B 9704 A/EK B 9704 A/HK B 9704 A/MK B 9704 A/MK B 9704 A/MK B 9704 A/PK B 9704 A/PK B 9704 A/FK B	04.841.4850.0 04.841.4950.0 04.841.5050.0 04.841.5550.0 04.841.5350.0 04.841.5350.0 04.841.5550.0 04.841.5550.0 04.841.5550.0 04.841.5750.0 04.841.5850.0 04.841.6050.0 04.841.6150.0 04.841.6250.0 04.841.6350.0 04.841.6650.0 04.841.6650.0 04.841.6750.0 04.841.6750.0 04.841.7050.0 04.841.7050.0 04.841.77550.0 04.841.77550.0 04.841.77550.0 04.841.77550.0	25 25 25 25 25 25 25 25 25 25 25 25 25 2
· 	/	- /	- /	- /	- /	- /	- /	- /	- /		9704 A/– B 9704 A// B 9704 A/. B	04.841.7550.0 04.841.7650.0 04.841.7750.0	25 25 25
1 set of the same numbers = 10×25 strips = 2500 numbers 1 set of cap. letters = 26×25 strips = 6500 letters 1 set of small letters = 26×25 strips = 6500 letters	1 A a	1 A a	1 A a		0 Z z	0 Z z	0 Z z				111 bis 000 A bis Z GB a bis z KB	04.841.9050.0 04.841.9150.0 04.841.9250.0	1 1 1

Tools

facts & DATA

Technical explanations on:

Ferrules

Tools

Standards and certifications

facts structured in three main sections for:

- important accessories
- technical documentation and basic information in tables
- important standards and certifications

All Wieland Components which require $C \in C$ general certification are $C \in C$ certified, and identified with the $C \in C$ logo.



Technical Explanations
Tools
Approvals



reparat	ion of co	onducto	or ends	
	Automat ı machin			
echnica	ıl explan	ations		
pprova	ls			
.рр. ота				

 Ferrules according to DIN 46 228 p1 through p4 Ferrules Tools Crimp contact kit Crimping dies and contact positioners Crimping tools for ferrules Stripping tool, screwdrivers 	Page 796 Page 797 Page 798 Page 798 Page 798 Page 798 Page 799
Crimping machine Disposable magazines with female and male contacts for industrial multipole connectors	Page 800 Page 801
 Types of mounting rails Tables, technical information, explanations DIN rail terminal blocks for increased safety (Ex terminal blocks) 	Page 802 Page 804 Page 824
Approvals	Page 834

Ferrules

Ferrules with

insulating sleeves for 0.5 to 25 mm² conductors

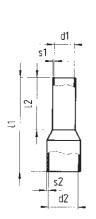
Materials:

Sleeve:

Polypropylene, temperature resistant up to 105 °C, tracking resistant

Tube:

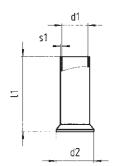
E-Cu, galvanically tin-plated





0	2/414/0	Color	Destace	Cul		.l			a.		
	on mm²/AWG		Part no.	Std. pack	S ₂	d ₂	I ₁	l ₂	d ₁	S ₁	
acco	ord. t	o DIN	46 228 T4								
0.50/20	norm.	white	06.600.2027.0	100	0.25	2.6	14	8	1.0	0.15	
0.75/18	norm.	gray	06.600.2127.0	100	0.25	2.8	14	8	1.2	0.15	
1.00/18	norm.	red	06.600.2227.0	100	0.25	3.0	14	8	1.4	0.15	
1.50/16	norm.	black	06.600.2327.0	100	0.25	3.5	14	8	1.7	0.15	
1.50/16	long	black	06.600.2427.0	100	0.25	3.5	24	18	1.7	0.15	
2.50/14	norm.	blue	06.600.2527.0	100	0.25	4.2	14	8	2.2	0.15	
2.50/14	long	blue	06.600.2627.0	100	0.25	4.2	24	18	2.2	0.15	
4.00/12	norm.	gray	06.600.2727.0	100	0.30	4.8	17	10	2.8	0.20	
4.00/12	long	gray	06.600.2827.0	100	0.30	4.8	26	18	2.8	0.20	
6.00/10	norm.	yellow	06.600.2927.0	100	0.30	6.3	20	12	3.5	0.20	
6.00/10	long	yellow	06.600.3027.0	100	0.30	6.3	26	18	3.5	0.20	
10.00/8	-	red	06.600.3127.0	100	0.40	7.6	22	12	4.5	0.20	
10.00/8	long	red	06.600.3227.0	100	0.40	7.6	28	18	4.5	0.20	
16.00/6	norm.	blue	06.600.3327.0	100	0.40	8.8	24	12	5.8	0.20	
16.00/6	long	blue	06.600.3427.0	100	0.40	8.8	28	18	5.8	0.20	
25.00/4	half long	yellow	06.600.3527.0	50	0.40	11.2	30	18	7.3	0.20	

Ferrules without insulating sleeves for 0.5 to 16 mm² conductors **Material:** E-Cu, galvanically tin-plated



accord. to DIN 46 228 T1

0.50/20	norm.	06.600.4027.0	1000	2.1	6	1.0 0.15	
0.75/18	norm.	06.600.4127.0	1000	2.3	6	1.2 0.15	
1.00/18	norm.	06.600.4227.0	1000	2.5	6	1.4 0.15	
1.50/16	norm.	06.600.4327.0	1000	2.8	7	1.7 0.15	
2.50/14	norm.	06.600.4427.0	1000	3.4	7	2.2 0.15	
4.00/12	norm.	06.600.4527.0	1000	4.0	9	2.8 0.20	
6.00/10	norm.	06.600.4627.0	500	4.7	10	3.5 0.20	
10.00/8	norm.	06.600.4727.0	500	5.8	12	4.5 0.20	
16.00/6	norm.	06.600.4827.0	100	7.5	12	5.8 0.20	
25.00/4	norm.	06.600.4927.0	100	9.5	15	7.3 0.20	
35.00/2	norm.	06.600.5027.0	100	11.0	18	8.3 0.20	

Ferrules

Tacts

Cross section mm²/AWG Color Part no.

yellow 05.596.6127.0

2.08/16

Ferrules with insulating sleeves

for 0.36 to 25 mm² conductors

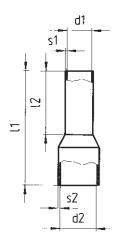
Materials:

Sleeve:

 Rilsan, temperature resistant up to 130 °C, tracking resistant

Tube:

E-Cu, galvanically tin-plated



Twin ferrules with insulating sleeves

			15.8	
	3.6		8.2	
6.5	0	2.6		+
	2.3			

Cross section mm ² /AWG Type	Part no.	Std. pack
2 x 1.5/16 AEI 1,5 Z-	N 05.599.2027.0	500

Std. pack s₂ d₂

1000 0.25 3.7 14.5 8.2 2.0 0.175

7	9	7

Tools



Modular kit for Crimp contacts

For contact crimping we provide crimping tools in a modular system:

This crimping tool system consists of the basic crimping tool and case. Additionally, you can select the crimping dies and contact positioners for your required contact type. The crimping dies and the contact positioner are easily inserted in the tool and exchanged.

You will require only one crimping tool for several contact types as you can use it with the corresponding



Part no. Std. pack



Part no. Std. pack

Crimping tool for ferrules

0.08 – 6 mm²

Crimping tool for ferrules

0.75 - 10 mm²

AWG 28 - 10

AWG 19 - 7

rimping dies and conta	act positior	ners.		(
Cross section mm²/AWG	Part no. 95,101.0			Τ.
• parallel crimpin		500.0	1	t
 releasable latch 	_			
• toggle ratio				١,
Crimp contacts, turne 4 – 10 mm²/12 – 8 AV		r revo :	S	
Crimping die D Contact positioner 1	05.502.2 05.502.3		1 1	
Crimp contacts, punc 0.5 – 2.5 mm ² /20 – 1 ²		for <i>rev</i>	os	
Crimping die C Contact positioner 2	05.502.2 05.502.3		1 1	
Crimp contacts, turne 0.5 – 4 mm²/20 – 12 /		r revo :	s	
Crimping die B Contact positioner 1	05.502.2 05.502.3		1	
Crimp contacts, turne 0.14 – 2.5 mm²/26 – 1		r revo :	S	
Crimping die B Contact positioner 1	05.502.2 05.502.3		1	
Crimp contacts, punc 0.09 – 0.5 mm ² /28 – 2		r revo	s	
Crimping die A No contact positioner	05.502.2 required	0.000	1	
Crimp contacts, turne 0.5 – 4 mm²/20 – 12 /		V – 690	V series	
Crimping die B Contact positioner 3	05.502.2 05.502.3		1	
Crimp contacts, punc		ulti-pole	connectors	

05.502.2400.0 1

total length: 174 mm	95.101.0900.0	1	total length: 174 mm	95.101.1000.0	1					
square crimpinreleasable latccompression a	h		square crimpingreleasable latchcompression adjustable							

0.2 - 1.5 mm²/24 - 16 AWG

Contact positioner 2 05.502.3200.0 1

Crimping die E

facts & DATA









Crimping tool for ferrules

Crimping tool for ferrules

Stripping tool

Screwdriver

10 – 25 mm ² AWG	G 7 – 4 35 – 50 mm ²	AWG 2 - 1/0	0.08 – 10 mm ²	AWG 28 – 7		
Part no. Std. pack	Part no. Sto	I. pack	Part no.	Std. pack	Part no.	Std. pack
total length: 203 mm	total length: 203 mm		total length: 197 mm			
95.101.1100.0 1	95.101.1200.0	1	95.350.0100.0	1	06.502.4000.0	1
 parallel crimping releasable latch toggle ratio compression adjustable 	 parallel crimping releasable latch toggle ratio compression adjusted 	ustable	adjustable leng integrated wire tool elements fibre reinforced	e cutter made from glass	 blade 0.6 x DIN 5264 B for WKF DII clamp termi for WKC DII blocks for multipoli with spring ergonomica shaped han 	N rail spring inal blocks N rail IDC termin e connectors connection

Automated crimping machine to connect wires to female and male contacts for multipole connectors

facts & DATA

Automatic stripping and crimping machine

This machine enables wire stripping and crimping in one operation.

A sensor registers when a cable is inserted manually. Then the wire is automatically stripped and then crimped – for the user, this means a time-saving operation.

The female and male parts can be fed in on reels $(0.75-1.5~\text{mm}^2)$ or by means of a reusable magazine (for $0.5-4~\text{mm}^2$ connectors).

The following easily exchangeable tool inserts are available for multi-purpose use of the crimping machine:

- for ST 18 connectors

- for industrial multipole connectors

Dimensions: H 570 mm, W 410 mm, D 510 mm; weight: 85 kg

Power supply: 220 V ~ Part no. **95.000.0005.0**



	Description	for cross sect. in mm ² /AW	G Part no. Std	. pack
for connector versions	Disposable magazine with 25	0.5 / 20	Z2.123.7000.0	25
	female contacts	0.75 – 1 / 18	Z2.123.7100.0	25
70.700 58.0		1.5 / 16	Z2.123.7200.0	25
70.710 58.0		2.5 / 14	Z2.123.7300.0	25
72.700 58.0		4* / 12	Z2.123.7400.0	25
72.710 58.0				
	Disposable magazine with 25	0.5 / 20	Z5.543.7000.0	25
	male contacts	0.75 – 1 / 18	Z5.543.7100.0	25
		1.5 / 16	Z5.543.7200.0	25
		2.5 / 14	Z5.543.7300.0	25
		4* / 12	Z5.543.7400.0	25

^{*} not possible with machine!



Disposable magazines with female and male contacts for industrial multipole connectors

facts & DATA

facts

Use of tool when installed

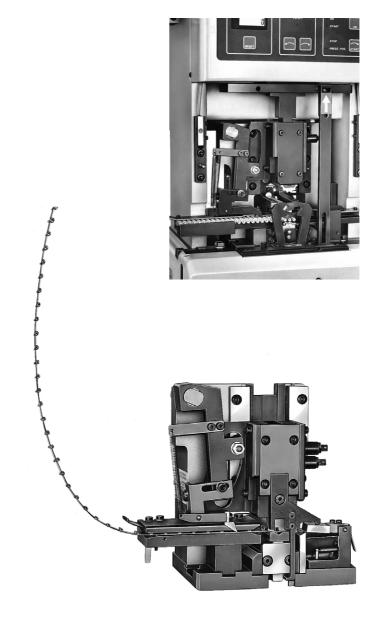
Use of tool with reels, female and male contacts for:

multipole connectors

Part no. **95.000.0007.0**

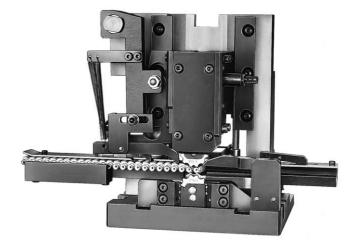
ST 18 connectors

Part no. **95.000.0008.0**

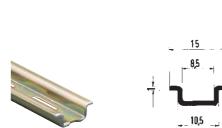


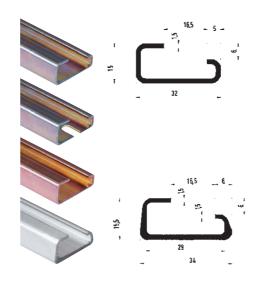
Use of tool for disposable magazines with female and male contacts for industrial multipole connectors

Part no. **95.000.0006.0**



Mounting rails

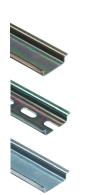


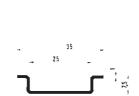


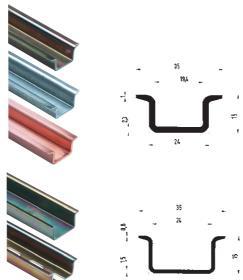
Mounting rail 15 accord. to DIN EN 60715

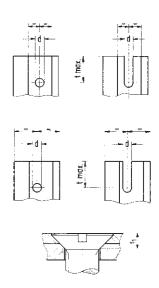
Mounting rail 32 accord. to DIN EN 60715

Туре	Part no.	Std. pack		Туре		Part no.	Std.	pack
Length: 1 m	98.090.00	00.0 galvan.	zinc-plated steel	Lengt	h: 2 m			
Length: 2 m	98.090.00	15.0 galvan.	zinc-plated steel	9006 E	N 60715 G-32	98.190.00	0.00	galvan. zinc-plated stee
Length: 3 m	98.095.30	00.0 galvan.	zinc-plated steel	9006 C	U EN 60715 G-32	98.220.00	0.00	E-Cu
				slotte	d	98.190.10	0.00	galvan. zinc-plated stee
				9006 A	L 32	98.210.00	0.00	AL
Mounting rail accord. to DIN EN yellow chromated slotted Length: 1 m 9021 15 x 5.5 EN 60715				yellov unslo Leng	nting rail rd. to DIN EI w chromated otted th: 2 m N 60715 G-32			2
Mounting rail	30.030.00	00.0 1			nting rail	30.130.00	00.0	1
same as above, bu 2 m long	ut			same	e as above, bu th: 2 m	ut slotted		
9021	98.090.00	15.0 10		9006	slotted	98.190.10	0.00	1
				simila made unslo	th: 2 m			1
				simila made unslo Leng	nting rail ar to DIN EN of a from copper otted th: 2 m U EN 60715 G-32	,		10









Mounting rail 35 x 7.5 accord. to DIN EN 60715

Mounting rail 35 x 15 accord. to DIN EN 60715

Type Part no. Std. pack	Type Part no. Std. pack
Length: 2 m	35 x 24 x 15 EN 60715 98.360.0000.0 galvan. zinc-plated steel 35 x 24 x 15 EN 60715 98.380.0000.0 E-Cu
35 x 27 x 7,5 EN 60715 98.300.0000.0 galvan. zin 35 x 27 x 7,5 1 m 98.305.1000.0 galvan. zin 98.305.1000.0 galvan. zin	plated steel 35 x 27 x 15 98.370.0000.0 galvan. zinc-plated steel 98.370.1000.0 galvan. zinc-plated steel
35 x 27 x 7,5 slotted 98.300.1000.0 galvan. zin	plated steel 35 x 27 x 15 slotted 1 m 98.375.1000.0 galvan. zinc-plated steel
Mounting rail accord. to DIN EN 60715 - 35 x 7.5 yellow chromated steel, low version, unslotted Length: 2 m	Mounting rail accord. to DIN EN 60715 – 35 x 15 yellow chromated steel, 2.3 mm thick high version, unslotted Length: 2 m
98.300.0000.0 1	98.360.0000.0 1
Mounting rail same as above, but 1 m long	Mounting rail similar to DIN EN 60715 – 35 x 15, yellow chromated steel, 1.5 mm thick high version, unslotted Length: 2 m
98.305.1000.0 1	98.370.0000.0 1
Mounting rail same as above, but slotted Length: 2 m	Mounting rail same as above, but slotted Length: 2 m
98.300.1000.0 1	98.370.1000.0 1
	Mounting rail same as above, but 1 m long
	98.375.1000.0 10
	Mounting rail DIN EN 60715 – 35 x 15 copper, 2.3 mm thick, high version, unslotted Length: 2 m 98.380.0000.0 10

Mounting rails for OEM production

Mounting rails are generally supplied in lengths of 2 m. For OEM production we can supply mounting rails in all desired lengths, already punched with fastening holes as shown in the following table.

		Size of th	ie fasti	ening scı	rews		
Version	M	4	M	5	M 6		
	d	t max	d	t max	d	t max	
1	4.5		5.5		6.6		
2	4.5	24	5.5	22	6.6	22	
3	4.5		5.5		6.6		
4	4.5	24	5.5	22	6.6	22	

Countersunk holes accord. to DIN 75 must be specially indicated. It should be observed that the measuring unit t₁ of countersunk screws M 4 and larger exceeds the material thickness of the mounting rail for the entire countersunk section. For this reason, the fastening base must provide a countersunk section also.

Information on transition from Pg to metric threads facts & DATA

Pg threads are available upon request!

1. Basic legal conditions

The European standard EN 50 262 "Metric Cable Glands for Electrical Installation" was ratified on April 01, 1989 by CENELEC (European Committee for Electrotechnical Standardization) and put into force.

A corresponding German standard DIN EN 50 262 published in March 1999 will replace the national standards: VDE security standard 0619 quoting standards DIN 46 319 and DIN 46 320, with a transition period until March 01, 2001.

EN 50 262 is valid in all EC countries and countries not belonging to the EC and cooperating in CENELEC will accept the standard.

The main difference in the new EN standard is its character as a security standard. As a building standard it only defines the metric thread and its lead.

2. Effects of the change

The changeover will affect all manufacturers of cable glands, cable entries and housings for rectangular connectors.

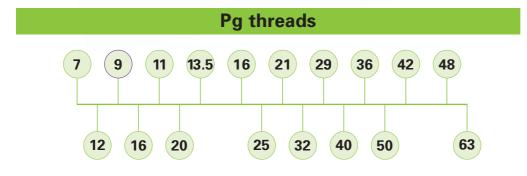
The ten Pg sizes:

Pg 7 / 9 / 11 / 13.5 / 16 / 21 / 29 / 36 / 42 and 48

are replaced by eight metric sizes:

M 12 / 16 / 20 / 25 / 32 / 40 / 50 and 63

3. Comparison of the Pg/metric cable gland sizes



Metric threads

4. Assigning the Pg/metric cable glands

As the ten Pg sizes are replaced by eight metric threads, users will need to reassign the connection ranges of the cables to the metric thread sizes and housings.

5. Conversion

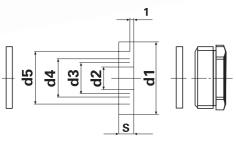
5.1 Comparison between Pg thread and metric thread

Pg thread	Metric thread	Preferred types
Pg 7	M 12	
Pg 9	M 16	
Pg 11	M 20	X
Pg 13.5	M 20	X
Pg 16	M 20	X
Pg 21	M 25	X
Pg 29	M 32	Х
Pg 36	M 40	
Pg 42	M 50	

Hoods of the revos BASIC series with Pg thread 13.5 and 16 are also available with M 25, while PG thread 21 is also available with M 32 thread.

If you require the Pg 16 and 24 housings in M 32, you will have to use the extended height housings.

5.2 Connection range for housing versions 7x.xxx.xxxx.0



For more information visit us on the internet under www.wieland-electric.com

Please see the following table for the connection ranges of cable glands without strain relief:

Metric thread	d1	d2	Connection range in mm	d3	Connection range in mm	d4	Connection range in mm	d5	Connection range in mm
M 16	13.8	3	2 – 4.5	6	5 - 7.5	9	8 – 10.5		
M 20	17.6	4	3 – 5.5	7	6 - 8.5	10	9 – 11.5	13	12 - 14.5
M 25	22.6	8.5	7.5 – 10	11.5	10.5 – 13	14.5	13.5 – 16	17.5	16.5 – 19
M 32	29.6	16	15 – 17.5	19	18 - 20.5	22	21 – 23.5	25	24 - 26.5

5.3 Connection ranges for housing versions with flared gland 7x.xxx.xxxx.3

Metric thread	Connection range in mm
M 16	6 - 9
M 20	9 – 13.5
M 25	14 – 20
M 32	19 – 29

Information on hazardous location approval: Class I, Zone 2 Multipole Kits are available certified to CSA standard C22.2 182.3, E-79-15-95.

Please contact us to discuss your applications.



Maximum short-time current capability assigned to mounting rails

DIN EN 60 947-7-2/VDE 0611 part 3: 1996-06

Rail profile	Material	Equivalent E-Cu cross section	Short-time current capability	Rated thermal current of a PEN
		mm²	1 s kA	busbar A
DIN rail TH 15 – 5.5	Steel	10	1.2	-
accord. to IEC 715	Copper ¹⁾ Aluminum ¹⁾	25 16	3 1.92	101 76
G rail G32 accord. to IEC 715	Steel Connectly	35 120	4.2 14.4	- 269
accord. to IEC 715	Copper ¹⁾ Aluminum ¹⁾	70	8.4	192
DIN rail TH 35 -7.5	Steel	16	1.92	_
accord. to IEC 715	Copper ¹⁾ Aluminum ¹⁾	50 35	6 4.2	150 125
DIN rail TH 35 -15	Steel	50	6	-
accord. to IEC 715 (made from 2.3 mm thick material)	Copper ¹⁾ Aluminum ¹⁾	150 95	18 11.4	309 232

Electrical and thermal characteristics

					Duroplast				Thermoplast				
								Polya	mide			Polybutylen- terephtalate	,
Key figures / characteristics	Standard		Unit		Typ 150	PA 6	PA 6 GF	PA 66	PA 66 GF	PA 66/6	PA 66/6 GF	PBT GF	PC
Dielectric strength	VDE 0303-T21	IEC 243/1	kV / mm	tr/lf.	ca. 10	100 / 60	40 / 31	120 / 80	80 / 65	55 / 45	26 / 23	40	35
Dielectric loss tan _ at 1 MHz	VDE 0303-T4	IEC 250		tr./lf.	0.3	0.03 / 0.3	0.015 / -	0.025 / 0.2	0.02 / 0.1	0.02 / 0.3	0.016 / -	0.017	0.01
Specific			_							, , , , , , , , , , , , , , , , , , , ,			
feed through resistance	VDE 0303-T30	IEC 93	Ωxcm	lf.	1010	1012	1011	1012	1012	1012	1015	1016	1015
Surface resistance Creepage	VDE0303-T30 VDE0303-T1	IEC 93	Ω CTI	lf.	10¹0 600	10¹º 600	10¹º 550	10¹º 600	10¹º 550	10¹º 600	10 ¹⁴	10¹³ 200	10 ¹⁵
Operating temperature RTI*	UL 746 B	120 112	°C at 1.5mm			130	140	125	115	120	140	140	130
Temperature index TI **	VDE0304 T.21	IEC 216-1	°C		120 / 80	100 / 80	185 / 160	118 / 101	157 / 139	123 / 107		130 / 120	
Lower operating temperature													
without mechanical stress			°C		-55	-40	-40	-40	-40	-40	-40	-40	-40
Flammability	UL 94		class/material thickness		V0	V2 / 1.5	V2 / 0.8	V2 / 0.4	V0 / 0.8	V0 / 0.4	V0 / 1.5	V0 / 0.5	V0 / 1.04
Suitability for tropical areas					good	good	good	good	good	good	good	good	good

^{*} electrical value

^{**} related to 50% strain resistance drop after 5,000/20,000 hours

Rated connecting capacity and connectable conductor Table 1 (IEC 60 999-1: 2000)

D. I.			Connectable	conductors a	and their thec	retical diame	ters				
Rated connecting			Met	ric				AWG			
capacity		rigid		flex	ible		rigid		flexible		
	_	solid	stranded	_			solid	1) Class B stranded		Class I, K, M stranded	
mm ²	mm ²	Ø mm	Ø mm	mm ²	Ø mm	Gauge	Ø mm	Ø mm		Ømm	
0.50	0.5	0.9	1.1	0.5	1.1	20	0.85	0.97	20	1.02	
0.75	0.75	1.0	1.2	0.75	1.3	18	1.07	1.23	18	1.28	
1.0	1.0	1.2	1.4	1.0	1.5	_	_	_	_	_	
1.5	1.5	1.5	1.7	1.5	1.8	16	1.35	1.55	16	1.60	
2.5	2.5	1.9	2.2	2.5	2.3*	14	1.71	1.95	14	2.08	
4.0	4.0	2.4	2.7	4.0	2.9*	12	2.15	2.45	12	2.70	
6.0	6.0	2.9	3.3	4.0	2.9*	10	2.72	3.09	_	_	
10.0	10.0	3.7	4.2	6.0	3.9	8	3.43	3.89	10	3.36	
16.0	16.0	4.6	5.3	10.0	5.1	6	4.32	4.91	8	4.32	
25.0	25.0	_	6.6	16.0	6.3	4	5.45	6.18	6	5.73	
35.0	35.0	-	7 .9	25.0	7.8	2	6.87	7 .78	4	7 .26	

^{*} Measurement only for flexible conductors of Class 5 according to HD 383 (= IEC 228A, mod.), DIN VDE 0295

The diameter of the largest rigid and flexible conductors are based on Table 1 of HD 383 (IEC 228A) and for AWG conductors are based on ASTM B172-71, ICEA Publ. S-19-81 and ICEA Publ. S-66-516.

Theoretical diameters of the largest conductor and ratio between the rated cross section and connectable conductors

Table 1 (IEC 60 999-2: 1995)

Rated	Me	tric		AWG/Kcmil	AWG/Kcmil	
cross section	rigid stranded	flexible Class 5	Gauge	rigid stranded	flexible	Connectable conductor
mm ²	mm	mm		mm	mm	
35*	7.9	9.2	2	7.78	9.02	
_	_	_	1	8.85	10.61	
50	9.1	11.0	0	9.64	12.08	
70	11.0	13.1	00	11.17	13.54	is to be indicated
95	12.9	15.1	000	12.54	15.33	in the appropriate
_	_	_	0000	14.08	17.22	equipment
120	14.5	17.0	250	15.34	19.01	specifications
150	16.2	19.0	300	16.80	20.48	
185	18.0	21.0	350	18.16	22.05	
_	_		400	19.42	24.05	
240	20.6	24.0	500	21.68	26.57	
300	23.1	27.0	600	23.82	30.03	

¹⁾ Nominal diameter + 5%

 $^{^{2)}}$ Largest diameter for conductors of Class I, K, M, + 5%

Tables, technical data, explanations facts & DATA

Standard cross sections of round copper conductors

C						
Comparison between AWG/kcmil und metric sizes						
AWG	kcmil	mm²				
28		0.081				
26		0.128				
24		0.205				
22		0.324				
20		0.519				
18		0.82				
_		_				
16		1.3				
14		2.1				
12		3.3				
10		5.3				
8		8.4				
	28 26 24 22 20 18 - 16 14 12	und metric siz AWG kcmil 28 26 24 22 20 18 - 16 14 12 10				

Metric size ISO		on between AWG/kcmil nd metric sizes					
mm ²	AWG	kcmil	mm ²				
16 25 35 50 70 95 - 120 150 185 240 300	6 4 2 (1/0) 0 (2/0) 00 (3/0) 000 (4/0) 0000	250 300 350 500 600	13.3 21.2 33.6 53.5 67.4 85 107.2 127 152 177 253 304				

Design and dimensions of solid, stranded, fine stranded and extra fine stranded copper conductors Excerpt from DIN VDE 0295 (06.92)

Nominal cross section	SO	lid	strar	nded	fine st	randed
mm²	Diameter max. size	Number of wires	Diameter max. size	Number of wires	Diameter max. size	Number of wires Guide value
0.5 0.75 1 1.5 2.5	0.9 1.0 1.2 1.5 1.9	1 1 1 1 1	- - - -	- - - -	1.1 1.3 1.5 1.8 2.3	16 24 32 30 50
4 6 10 16 25	2.4 2.9 3.7 4.6	1 1 1 1	- 4.2 5.3 6.6	- - 7 7 7	2.9 3.9 5.1 6.3 7.8	56 84 80 126 196
35	-	-	7.9	7	9.2	276
50	-	<u>-</u> -	9.1	19	11	396
70 95 120 150 185 240	- - - - -	- - - - -	11 12.9 14.5 16.2 18 20.6	19 19 37 37 37 61	13.1 15.1 17 19 21 24	360 475 608 756 925 1224

Current carrying capacity of cables or wires

Recommended values for the current carrying capacity of cables or wires for fixed installation and external mounting have been taken from DIN VDE 0298 part 4/11.98 together with the modifications in draft DIN VDE 0298 part 4 A1/03.00 and are contained in supplement 1 to DIN VDE 0100 part 430, converted at 25 °C.

^{*} not standardized

Current carrying capacity of DIN rail terminal blocks

The following tables apply for DIN rail terminal blocks and copper conductors: Test currents according to DIN EN 60 947-7-1/VDE 0611 part 1: 2000-05

Rated cross section mm ²	0.2	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Test current A	4	6	9	13.5	17.5	24	32	41	57	76	101	125	150	192	232	269	309	353	415	520

The rated cross section of a DIN rail terminal block is the value indicated by the manufacturer of the connectable conductor cross section to which specific thermal, mechanical and electrical requirements refer.

The rated connecting capacity of a DIN rail terminal block is a range and/or a number of rated cross sections that the terminal block is intended for. It should be indicated for each terminal block separately.

The conductors can be rigid (solid or stranded) or flexible. The data pertains to unprepared conductor ends without ferrules and includes the largest and smallest connectable conductor cross sections. In general it is possible to connect two conductors with the same cross section and design.

For DIN rail terminal blocks with special functions, the rated current from the manufacturer has been determined according to the requirements of the special functions. Special functions can be given by pluggable connections, isolating points, fuses, relays or electronic components. The current carrying capacity of other terminal blocks has been fixed and assessed following the above specifications according to nach EN 60 999/VDE 0609 part 1 or EN 60 998-1/VDE 0613 part 1 or

EN 60 335-1/DIN VDE 0700 part 1, as far as they are relevant.

The current carrying capacity for pluggable connectors (catalog sections **revos** and **wiecon** – for pluggable PC board connectors and headers) has been established and fixed according to DIN VDE 0627/06.86 and DIN 43 652, if applicable. Disconnect blocks, knife edged disconnect blocks and fuse blocks, cross connectors / jumper bars, jumpers and pluggable connectors should not be operated under load.

Torques

Excerpt from EN 60 947

Tightening torques for verification of mechanical stability of screw connections

Thread	d diameter (mm)	Tig	htening torque (N	m)
Metric standard values	Diametrical range	I	II	III
2,5	≤ 2,8	0,2	0,4	0,4
3,0	> 2,8 through 3,0	0,25	0,5	0,5
-	> 3,0 through 3,2	0,3	0,6	0,6
3,5	> 3,2 through 3,6	0,4	0,8	0,8
4	> 3,6 through 4,1	0,7	1,2	1,2
4,5	> 4,1 through 4,7	0,8	1,8	1,8
5	> 4,7 through 5,3	0,8	2,0	2,0
6	> 5,3 through 6,0	1,2	2,5	3,0
8	> 6,0 through 8,0	2,5	3,5	6,0
10	> 8,0 through 10,0	_	4,0	10,0
12	> 10,0 through 12,0	_	-	14,0
14	> 12 through 15	_	-	19,0
16	> 15 through 20	_	-	25,0
20	> 20 through 24	_	-	36,0
24	> 24	_	_	50,0

Column I: Valid on for headless screws, that do not protrude from the threaded hole; also only for

screws that are operated with screwdrivers having tisp smaller than the screws' thread core

diameter

Column II: applies for nuts and screws that are tightened with a screwdriver.

Column III: applies for nuts and screws that can be tightened with tools other than a screwdriver



The recommended torques were established so that within a conforming practical tolerance band, the optimal conditions are achieved for mechanical, thermal and electrical requirements.

A further increase in the tightening torque of the terminal screw does not improve the contact resistance significantly. It is therefore not advisable to tighten the terminal screws more than recommended, although the majority of the Wieland terminal blocks, especially the terminal blocks of the WK series, can withstand much higher torques.

In extreme cases, the conductor and/or terminal block can be damaged if the upper tolerance limit is exceeded.

Insulation coordination for equipment within low-voltage systems DIN VDE 0110-1/VDE 0110 part 1/04.97 (IEC 60 664-1: 1992, mod.) – Partly translated from German Version HD 625.1, S1: 1996

Main section - 1.1 Scope

1.1.1 This part of IEC 664 deals with insulation coordination for equipment within low-voltage systems . It applies to equipment for use up to 2,000 m above sea level, having a rated voltage up to AC 1,000 V with rated frequencies up to 30 kHz or a rated voltage up to DC 1,500 V.

It specifies the requirements for clearances, creepage distances and solid insulation for equipment based upon their performance criteria. It includes methods of electric testing with respect to insulation coordination.

The minimum clearances specified in this part do not apply where ionized gases occur. Special requirements for such situations may be specified at the discretion of the relevant Technical Committee.

This standard does not deal with distances

- through liquid insulation,
- through gases other than air,
- through compressed air.
- NOTE 1: Extension of the scope up to 1 MHz is under consideration.
- NOTE 2: Higher voltages may exist in internal circuits of the equipment.
- NOTE 3: Requirements for altitudes exceeding 2,000 m can be derived from Table A.2 of Annex A.
- **1.1.2** The object of this basic safety standard is to guide Technical Committees responsible for different equipment in order to rationalize their requirements so that insulation coordination is achieved.

It provides the information necessary to give guidance to Technical Committees when specifying clearances in air, creepage distances and solid insulation for equipment.

Product description and labelling

Currently there is still a range of device specifications, in which the regulations on insulation coordination have still not been incorporated. In addition, transition periods of up to 5 years apply for reworked standards in order to replace the older standards. Thus, for the foreseeable future, there are products existing side by side that have been developed and labelled following the old design rules and those that have already been designed according to the regulations for insulation coordination.

For this reason, whereever possible and applicable, the rating is given in the product descriptions according to the old and new regulations. The reassessment and conversion of the labelling of existing products is carried out in the framework of the transition periods in accordance with economical considerations.



The rating is given according to the new regulation in the format

Rated voltage/Rated impulse voltage/Degree of pollution e.g. 800 V/8 kV/3

With this data, the rated impulse voltage is given priority over the overvoltage category. Therefore it is left to the users to decide which overvoltage category to select based on the requirements. If no rated voltage is indicated, the voltage data refer to overvoltage category III and degree of pollution 3.

It is imperative that the indicated wire strip lengths are observed. When connecting the wire, care must be taken that the insulation material is fed as closely as possible to the metal clamping body, as otherwise the creepage distances and clearances might be reduced.

2.2.2.1 Impulse withstand categories (overvoltage categories)

Impulse withstand categories are means to distinguish degrees of availability of equipment with regard to required expectations on continuity of service and on an acceptable risk of failure. By selection of impulse withstand levels of equipment, insulation coordination can be achieved in the whole installation, reducing the risk of failure to an acceptable level providing a basis for overvoltage control.

A higher characteristic numeral of an impulse withstand category indicates a higher specific impulse withstand of the equipment and offers a wider choice of methods for overvoltage control.

The concept of impulse withstand categories is used for equipment energised directly from the mains. The application of impulse withstand categories is based on the requirement with regard to additional protection against overvoltages as specified in IEC 364-4-443.

Note: Overvoltages of atmospheric origin are not significantly physically attenuated downstream in most installations. Investigations have shown that the concept of a probabilistic approach has proven reasonable and useful.

2.2.2.1.1 Equipment energized directly from the low-voltage

Technical Committees shall specify the overvoltage category as based on the following general explanation of overvoltage categories (see also IEC 364-4-443):

- Equipment of **overvoltage category IV** is for use at the origin of the installation.

Note: Examples of such equipment are electricity meters and primary overcurrent protection equipment

 Equipment of overvoltage category III is equipment in fixed installations and for cases where the reliability and the availability of the equipment is subject to special requirements.

Note: Examples of such equipment are switches, in the fixed installation and equipment for industrial use with permanent connection to the fixed installation.

Equipment of overvoltage category II is energy-consuming equipment to be supplied from the fixed installation.

Note: Examples of such equipment are appliances, portable tools and other household and similar loads.

If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies.

Equipment of overvoltage category I is equipment for connection to circuits in which measures are taken
to limit transient overvoltages to an appropriately low level.

Note: Examples are protected electronic circuits.

2.5 Pollution

The micro-environment determines the effect of pollution on the insulation. The macro-environment, however, has to be taken into account when considering the micro-environment.

Means may be provided to reduce pollution at the insulation under consideration by effective use of enclosures, encapsulation or hermetic sealing. Such means to reduce pollution may not be effective when the equipment is subject to condensation or if, in normal operation, it generates pollutants itself.

Small clearances can be bridged completely by solid particles, dust and water and therefore minimum clearances are specified where pollution may be present in the micro-environment.

Note 1: Pollution will become conductive in the presence of humidity. Pollution caused by contamina-

ted water, soot, metal or carbon dust is inherently conductive.

Note 2: Conductive pollution by ionized gases and metallic depositions occurs only in specific

instances, for example in arc chambers of switchgear or controlgear, and is not covered by

this part of IEC 664.

2.5.1 Degrees of pollution in the micro-environment

For the purpose of evaluating creepage distances and clearances, the following four degrees of pollution in the micro-environment are established:

Pollution degree 1

No pollution or only dry, non-conductive pollution occurs. The pollution has no influence.

- Pollution degree 2

Only non-conductive pollution occurs except that occasionally a temporary conductivity caused by condensation is to be expected.

Pollution degree 3

Conductive pollution occurs or dry, non-conductive pollution occurs which becomes conductive due to condensation which is to be expected.

- Pollution degree 4

The pollution generates persistent conductivity caused by conductive dust or by rain or snow.

2.5.2 Coordination with macro-environment

This sub-clause is under consideration.

2.7 Insulation material (excerpt)

The insulation material is divided into the following four groups according to their CTI (Comparative Tracking Index):

 $\begin{array}{lll} \mbox{Insulation I:} & 600 \leq \mbox{CTI} \\ \mbox{Insulation II:} & 400 \leq \mbox{CTI} < 600 \\ \mbox{Insulation III a:} & 175 \leq \mbox{CTI} < 400 \\ \mbox{Insulation III b:} & 100 \leq \mbox{CTI} < 175 \\ \end{array}$

The comparative tracking index must be defined according to DIN IEC 112/VDE 0303 part 1 on specimens made specially for this purpose with test solution A.

Note:

The proof-tracking index (PTI) is also used to identify the tracking characteristics of materials. A material may be included in one of the four groups given above on the basis that its PTI, established by the methods of IEC 112 using solution A, is equal to or greater than the lower value specified for the group.



Derivation of the rated impulse voltage from the overvoltage category and assignment of the nominal supply voltages to the rated impulse voltages for equipment Excerpt from table 1 (IEC 60 664-1: 1992)

Nominal supply for alternating systems acco IEC 38 in	voltage rding to	Voltages wire to ground in V derived from the nominal supply voltage up to U _{eff} and U_		Rated impulse voltage in V for overvoltage category							
3phase	1phase		I	II	III	IV					
		50	330	500	800	1500					
		100	500	800	1500	2500					
	120-240	150	800	1500	2500	4000					
230/400 277/4801)		300	1500	2500	4000	6000					
400/690		600	2500	4000	6000	8000					
1000		1000	4000	6000	8000	12000					
The nominal-supply vo	oltage 500 V is inc	cluded		ı							

Dimensions of the clearances

DIN VDE 0110 part 1 section 3.1

Table 2: Minimum clearances for the insulation coordination

Required			Minimum clears	ances in heights up	to 2000 m above	sea level (NZ)		
impulse voltage ¹⁾		Case (inhomogeneous				Case (homogeneous fi		
		Degree of	pollution			Degree of	pollution	
	1	2	3	4	1	2	3	4
kV	mm	mm	mm	mm	mm	mm	mm	mm
0.332)	0.01				0.01			
0.40	0.02				0.02			
$0.50^{2)}$	0.04	3)			0.04	3)		
0.60	0.06	0.24)			0.06	0.24)		
0.802)	0.10		0.84)		0.1			
1.0	0.15			1.64)	0.15		0.84)	
1.2	0.25	0.25			0.2			1.64
1.5 ²⁾	0.5	0.5			0.3	0.3	1	
2.0	1.0	1.0	1.0		0.45	0.45		
2.52)	1.5	1.5	1.5	-	0.6	0.6	1	
3.0	2	2	2	2	0.8	0.8		
4.02)	3	3	3	3	1.2	1.2	1.2	
5.0	4	4	4	4	1.5	1.5	1.5	
6.02)	5.5	5.5	5.5	5.5	2	2	2	2
8.02)	8	8	8	8	3	3	3	3
10	11	11	11	11	3.5	3.5	3.5	3.5
12 ²⁾	14	14	14	14	4.5	4.5	4.5	4.5
15	18	18	18	18	5.5	5.5	5.5	5.5
20	25	25	25	25	8	8	8	8
25	33	33	33	33	10	10	10	10
30	40	40	40	40	12.5	12.5	12.5	12.5
40	60	60	60	60	17	17	17	17
50	75	75	75	75	22	22	22	22
60	90	90	90	90	27	27	27	27
80	130	130	130	130	35	35	35	35
100	170	170	170	170	45	45	45	45

- for functional insulation: the highest impulse voltage to be expected on the clearance (see 3.1.4);
- for base insulation, if directly or mainly influenced by transient overvoltages of the low-voltage network (see 2.2.2.2, 2.2.2.3.1 and 3.1.5):
- the rated impulse voltage of the equipment;

 for other base insulation (see 2.2.2.3.2): the highest impulse voltage which may occur in the circuit
- for reinforced insulation, see 3.1.5.
- ²⁾ Preferred values, as determined in 2.1.1.2
- For PC board connectors, the values of pollution degree 1 apply, except for the fact that the value must not be below 0.04 mm as determined in table 4 The minimum clearances for the pollution degrees 2, 3 and 4 are based on experience, not on basic knowledge

Table A.2: Height correction factors

Height	Normal	Multiplication
	air pressure	factor for
m	kPa	clearances
2 000	80.0	1.00
3 000	70.0	1.14
4 000	62.0	1.29
5 000	54.0	1.48
6 000	47.0	1.70
7 000	41.0	1.95
8 000	35.5	2.25
9 000	30.5	2.62
10 000	26.5	3.02
15 000	12.0	6.67
20 000	5.5	14.50

facts & DATA

Nominal voltage of the low-voltage network

Table 3a: Single phase 3 or 2 wire alternating or direct voltage systems

Nominal voltage	Voltages 1	for table 4
of the power supply system (network)*)	for insulation Wire – Wire ¹⁾	for insulation Wire – Ground ¹⁾
	All systems	3 wire systems center grounded
V	V	V
12.5	12.5	_
24 25	25	-
30	32	-
42 48 50,**)	50	-
60	63	-
30-60	63	32
100,**)	100	_
110 120	125	-
150,**)	160	_
220,	250	_
110-220 120-240	250	125
300,**)	320	_
220-440	500	250
600,**)	630	_
480-960	1000	500
1000,**)	1000	_

Wire-ground insulation level for ungrounded or impedancegrounded networks equal those of wire-wire, as the operating voltage of each wire to ground can in practice reach wire-wire voltage. The reason is that the actual voltage to ground is determined by the insulation resistance and the capacitive blind resistance of each wire to ground. That means that a low (but permissible) insulation resistance of a wire can practically ground it and increase the other two to wire-wire voltage to ground.

Table 3b: Three-phase 4 or 3 wire alternating voltage systems

		Valtage for table 4	
Nominal voltage of the power supply	for insulation Wire – Wire		ulation Ground
system (network)*)	All systems	Three-phase 4 wire systems with grounded neutral ²⁾	Three-phase 3 wire systems ungrounded ¹⁾ or grounded wire
V	V	V	V
60	63	32	63
110 120 127	125	80	125
150,**)	160	_	160
208	200	125	200
220 230 240	250	160	250
300,**)	320	-	320
380 400 415	400	250	400
440	500	250	500
480 500	500	320	500
575	630	400	630
600,**)	630	-	630
660 690	630	400	630
720 830	800	500	800
960	1000	630	1000
1000,**)	1000	-	1000
		-	

Wire-ground insulation level for ungrounded or impedance grounded networks equal those of wire-wire, as the operating voltage of each wire to ground can in practice reach wire-wire voltage. The reason is that the actual voltage to ground is determined by the insulation resistance and the capacitive blind resistance of each wire to ground. That means that a low (but permissible) insulation resistance of a wire can practically ground it and increase the other two to wirewire voltage to ground.

^{*)} For relation with the rated voltage see 2.2.1.

^{**) (}see national foot note)

²⁾ For equipment which can be operated both in three-phase 4 wire and in three-phase 3 wire networks, grounded and also ungrounded, only the values for 3 wire systems are to be used.

^{*)} For relation with the rated voltage see 2.2.0.1.

^{**) (}see national foot note)



Dimensions of the creepage distances

DIN VDE 0110 part 1 section 3.2

Table 4: Minimum creepage distances for equipment under long-term voltage

					Cross	epage distanc	20					
	Print				Cree		Degree of poll	ution				
Effective voltage	Pollu	Pollution 1					3		4			
value	degr	ee 2	Insulation material			Ins	ulation mater	ial	Insulation material			
V	2)	3)	2)	l	II	III	l	II	III ⁴⁾	l	II	III ⁴⁾
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
10	0.025	0.04	0.08	0.4	0.4	0.4	1	1	1	1.6	1.6	1.6
12.5	0.025	0.04	0.09	0.42	0.42	0.42	1.05	1.05	1.05	1.6	1.6	1.6
16	0.025	0.04	0.1	0.45	0.45	0.45	1.1	1.1	1.1	1.6	1.6	1.6
20	0.025	0.04	0.11	0.48	0.48	0.48	1.2	1.2	1.2	1.6	1.6	1.6
25	0.025	0.04	0.125	0.5	0.5	0.5	1.25	1.25	1.25	1.7	1.7	1.7
32	0.025	0.04	0.14	0.53	0.53	0.53	1.3	1.3	1.3	1.8	1.8	1.8
40	0.025	0.04	0.16	0.56	0.8	1.1	1.4	1.6	1.8	1.9	2.4	3
50	0.025	0.04	0.18	0.6	0.85	1.2	1.5	1.7	1.9	2	2.5	3.2
63	0.04	0.063	0.2	0.63	0.9	1.25	1.6	1.8	2	2.1	2.6	3.4
80	0.063	0.1	0.22	0.67	0.95	1.3	1.7	1.9	2.1	2.2	2.8	3.6
100	0.1	0.16	0.25	0.71	1	1.4	1.8	2	2.2	2.4	3	3.8
125	0.16	0.25	0.28	0.75	1.05	1.5	1.9	2.1	2.4	2.5	3.2	4
160	0.25	0.4	0.32	0.8	1.1	1.6	2	2.2	2.5	3.2	4	5
200	0.4	0.63	0.42	1	1.4	2	2.5	2.8	3.2	4	5	6.3
250	0.56	1	0.56	1.25	1.8	2.5	3.2	3.6	4	5	6.3	8
320	0.75	1.6	0.75	1.6	2.2	3.2	4	4.5	5	6.3	8	10
400	1	2	1	2	2.8	4	5	5.6	6.3	8	10	12.5
500	1.3	2.5	1.3	2.5	3.6	5	6.3	7 .1	8	10	12.5	16
630	1.8	3.2	1.8	3.2	4.5	6.3	8	9	10	12.5	16	20
800	2.4	4	2.4	4	5.6	8	10	11	12.5	16	20	25
1 000	3.2	5	3.2	5	7.1	10	12.5	14	16	20	25	32
1 250 1 600 2 000			4.2 5.6 7.5	6.3 8 10	9 11 14	12.5 16 20	16 20 25	18 22 28	20 25 32	25 32 40	32 40 50	40 50 63
2 500 3 200 4 000			10 12.5 16	12.5 16 20	18 22 28	25 32 40	32 40 50	36 45 56	40 50 63	50 63 80	63 80 100	80 100 125
5 000 6 300 8 000			20 25 32	25 32 40	36 45 56	50 63 80	63 80 100	71 90 110	80 100 125	100 125 160	125 160 200	160 200 250
10 000			40	50	71	100	125	140	160	200	250	320

¹⁾ This voltage is

2) Insulation material groups I, II, IIIa and IIIb 3) Insulation material groups I, II and IIIa

Note: In agreement with VDE 0110 for rated voltages

127, 208, 415, 660/690, 830 volt creepage distances must be rated according to the lower values of 125, 200, 400, 630, 800 Volts.

⁻ for functional insulation: the operating voltage
- for base and additional insulation of a power circuit directly supplied by the low-voltage network (see 2.2.1.1.1): the voltage selected from table 3a or 3b based on the rated voltage of the equipment, or the rated insulation voltage

⁻ for base and additional insulation of systems, equipment and internal circuits, which are not directly supplied by the low-voltage network (see 2.2.1.1.2): the highest effective voltage value, which may occur among the ratings in the network, equipment or internal circuit under rated voltage supply and under unfavorable combination of the operating conditions

⁴⁾ Insulation material group III b is not recommended for pollution degree 3 at voltages above 630 V and also not for pollution degree 4.



Creepage distances and clearances according to DIN VDE 0110b/02.79

		,												
Reference (table 1	e voltage		on group		on group	Insu	lation grou	ль В	Insu	lation grou	ль С	Ins	ulation gro	up D
Alternating voltage (effective			A _o Creepage distance			Clearance	Creepage distance		Clearance	Creepage distance		Clearance	Creepage distance	
values)	V	L mm	mm	L mm	mm	L mm	a mm	b mm	L mm	a mm	b mm	L mm	a mm	b mm
12	15	0.06	0.1	0.15	0.2	0.4	0.6	0.8	0.8	1.2	1.7	1.6	2.3	3.2
30	36	0.1	0.15	0.2	0.25	0.5	0.8	1	1	1.5	2	1.8	2.6	3.5
60	75	0.15	0.2	0.25	0.35	0.7	1	1.3	1.2	1.7	2.3	2	3	4
125	150	0.25	0.35	0.4	0.5	1	1.3	2	1.6	2.2	3	2.5	3.5	5
250	300	0.5	0.7	0.8	1	1.6	2	3	2.5	3	4	3.5	5	7.5
380	450	0.8	1.1	1.2	1.5	2.4	3	4	3.5	4.5	6	5	7	10
500	600	1.1	1.5	1.6	2	3	4	5.5	4.5	6	8	6.5	9	13
660	800	1.5	2	2.2	2.8	4	5.5	7	6	8	10.5	8	12	17
750	900	1.8	2.2	2.5	3.2	4.5	6	8	6.5	9	12	9	13	19
1000	1200	2.5	3	3.5	4.5	6	8	11	9	12	16	12	17	25
1500	1800	4	5	5.5	7	9	12	17	13	18	24	17	25	36
2000	2400	5.5 ¹⁾	7	7.5 ¹⁾	9.5	12	16	23	17	24	30	22	33	47
3000	3600	91)	11	12 ¹⁾	15	18 ¹⁾	25	36	26 ¹⁾	36	45	321)	48	70
6000	7200	201)	25	261)	32	36 ¹⁾	50	70	50 ¹⁾	70	90	60 ¹⁾	90	125
10000	12000	35 ¹⁾	45	45 ¹⁾	55	60 ¹⁾	90	120	80 ¹⁾	120	160	1001)	150	200

To prevent continuous glow at operating voltage (reference voltage) sharp-edged metal components should be avoided. (W. Hermstein: Measuring clearances, especially for 50 Hz alternating voltage. etz-a 90 (1969) 11, pages 251 to 255, 9B., 11 Qu

Insulation group Ao: Lower-power equipment in air-conditioned or clean and dry rooms

that is suitably protected and heats up minimally when short circuits occur

Insulation group A: Electrical equipment in air-conditioned or clean and dry rooms

that is suitably protected

Insulation group B: Electrical equipment in households, stores and other commercial premises, in precision

engineering workshops, laboratories, testing stations, in rooms for medical use etc.

Insulation group C: Electrical equipment used primarily in premises for industrial, commercial and agricultural use,

in unheated warehouses, in workshops, in boiler rooms, machine tools etc.

Electrical equipment for use in motor vehicles that are particularly subject to the effects of conductive brake dust and moisture (condensation water or snow) and

cannot be sufficiently protected by casing.

Division of creepage distances

Insulation group D:

Table 3: Resistance to creepage

1	2	3	4
Group	Resistance to creepage ¹⁾ (minimum value)	Creepage distance without ripple	Creepage distance with ripple accord. to § 8a
I	(minimum value) KB 100	b	$\frac{a+b}{2}$
II	(minimum value) KB 380	$\frac{a+b}{2}$	а
III	KB > 600	а	а

Note:

The voltages given according to DIN VDE 0110 b/02.79 refer, unless otherwise identified, to insulation group C.

Degrees of protection according to DIN EN 60 529/ VDE 0470 part 1: 2000 - 09

Connecting devices such as modular terminals, connecting terminals, printed circuit board terminals and plug-in connectors etc., intended for mounting devices and installation that have no shock-protection housing in the sense of this standard. No IP protection category can thus be assigned to it. The insulating component is used in the first place for functional insulation, but can in addition offer protection against direct contact of active components e.g. safety finger contact and/or touch by the back of the hand. Its surface is not regarded as exposed. The definitive shock protection is secured by installation measures and by the external protective covering of the end device of the installation.

Identification examples using the IP code Explanation of Alpha-numeric IP code system

		IP 	2	3	C	5
Identification letter						
First identification number						
Second identification number						
Additional letter						
Final letter						

A housing using this identification (IP code)

- 2 protects people against access to dangerous components (touch-safe)
 - protects the equipment within the housing against ingress of solid foreign bodies with a diameter of
 12.5 mm and larger
- 3 protects the equipment within the housing against damaging effects of water that is sprayed from every direction against the housing
- C protects people who are handling tools with a diameter of 2.5 mm and larger, and a length less than 100 mm, against access to dangerous components (the tool can be inserted into the housing at full length)
- S is tested to provide protection against damaging effects of water ingress, while all components of the equipment are in standstill position



Components of the IP code and its meaning

A short description of the IP code components is given in the following table:

Component Figures or letter Meaning for the protection of the equipment Meaning for the protection of people: Identification letter IP – – against ingress of solid foreign bodies against access to dangerous components with 0 (unprotected) (unprotected) 1 ≥ 50 mm diameter back of hand 3 ≥ 12.5 mm diameter finger 3 ≥ 2.5 mm diameter tool 4 ≥ 1.0 mm diameter wire 5 protected against dust wire 6 dustproof wire against ingress of water with damaging effects effects 0 (unprotected) tripping water falling vertically Second identification number 2 dripping water (15° slope)				
Identification letter IP against ingress of solid foreign bodies against access to dangerous components with (unprotected) 1 ≥ 50 mm diameter 2 ≥ 12.5 mm diameter 3 ≥ 2.5 mm diameter 4 ≥ 1.0 mm diameter 5 protected against dust dustproof against ingress of water with damaging effects 0 (unprotected) 1 dripping water falling vertically	Component	Figures or	Meaning for the protection of the equipment	Meaning for the protection of
against ingress of solid foreign bodies against access to dangerous components with (unprotected) (unprotected) 1 ≥ 50 mm diameter 2 ≥ 12.5 mm diameter 3 ≥ 2.5 mm diameter 4 ≥ 1.0 mm diameter 5 protected against dust dustproof against ingress of water with damaging effects 0 (unprotected) 1 dripping water falling vertically		letter		people:
Components with (unprotected) 1 ≥ 50 mm diameter 2 ≥ 12.5 mm diameter 3 ≥ 2.5 mm diameter 4 ≥ 1.0 mm diameter 5 protected against dust dustproof 4 against ingress of water with damaging effects 0 (unprotected) 1 dripping water falling vertically	Identification letter	IP	-	-
0 (unprotected) 1 ≥ 50 mm diameter 2 12.5 mm diameter 3 ≥ 2.5 mm diameter 4 ≥ 1.0 mm diameter 5 protected against dust dustproof 4 against ingress of water with damaging effects 0 (unprotected) 1 dripping water falling vertically (unprotected) back of hand finger tool wire tool wire			against ingress of solid foreign bodies	against access to dangerous
First identification number 1				components with
First identification number 2 ≥ 12.5 mm diameter 3 ≥ 2.5 mm diameter 4 ≥ 1.0 mm diameter 5 protected against dust 6 dustproof 4 against ingress of water with damaging effects 0 (unprotected) 1 dripping water falling vertically Finger tool wire tool vire vire vire finger tool tool tool vire vire vire dustproof diameter vire vire vire dustproof diameter vire vire vire		0	(unprotected)	(unprotected)
3 ≥ 2.5 mm diameter tool 4 ≥ 1.0 mm diameter wire 5 protected against dust dustproof wire 6 dustproof wire against ingress of water with damaging effects 0 (unprotected) 1 dripping water falling vertically		1	≥ 50 mm diameter	back of hand
4 ≥ 1.0 mm diameter wire 5 protected against dust wire 6 dustproof wire against ingress of water with damaging effects 0 (unprotected) 1 dripping water falling vertically	First identification number	2	≥ 12.5 mm diameter	finger
5 protected against dust wire 6 dustproof wire against ingress of water with damaging effects 0 (unprotected) 1 dripping water falling vertically		3	≥ 2.5 mm diameter	tool
dustproof wire against ingress of water with damaging effects (unprotected) dripping water falling vertically		4	≥ 1.0 mm diameter	wire
against ingress of water with damaging effects 0 (unprotected) 1 dripping water falling vertically			· ·	wire
effects 0 (unprotected) 1 dripping water falling vertically		6	dustproof	wire
effects 0 (unprotected) 1 dripping water falling vertically			against ingress of water with damaging	
1 dripping water falling vertically				
		0	(unprotected)	
Second identification number 2 dripping water (15° slope)		1	dripping water falling vertically	
	Second identification number	2	dripping water (15° slope)	
3 spraying water		3	spraying water	
4 splashing water		4	splashing water	
5 jet water		5	jet water	
6 powerful jet water		6	· · · · · · · · · · · · · · · · · · ·	
7 temporary submersion		7		
8 continuous submersion		8	continuous submersion	

Table 1: Degrees of protection against access to dangerous components, identified by the first identification number

	Degree of protection		
st identification number	Brief description	Definition	
0	unprotected	-	
1	protected against access to dangerous components with the back of the hand	The access probe, 50 mm diameter sphere, must be a sufficient distance away from the dangerous components	
2	protected against access to dangerous components with a finger	The jointed test finger, 12 mm in diameter, 80 mm in length, must be a sufficient distance away from the dangerous components	
3	protected against access to dangerous components with a tool	The access probe with a diameter of 2.5 mm must not penetrate	
4	protected against access to dangerous components with a wire	The access probe with a diameter of 1.0 mm must not penetrate	
5	protected against access to dangerous components with a wire	The access probe with a diameter of 1.0 mm must not penetrate	
6	protected against access to dangerous components with a wire	The access probe with a diameter of 1.0 mm must not penetrate	

Table 2: Degrees of protection against solid foreign bodies

	Degree of protection			
t identification number	Brief description	Definition		
0	unprotected	-		
1	protected against solid foreign bodies of 50 mm and larger	Full penetration of spheres of 50 mm diameters or allowed*)		
2	protected against solid foreign bodies of 12.5 mm and larger	Full penetration of spheres of 12.5 mm diameters or allowed*)		
3	protected against solid foreign bodies of 2.5 mm and larger	Full penetration of 2.5 mm diameter sphere is not allowed at all*)		
4	protected against solid foreign bodies of 1.0 mm and larger	Full penetration of 1.0 mm diameter sphere is not allowed at all*)		
5	protected against dust	Penetration of dust is not fully prevented, but dust must not penetrate to such an extent that the satisfactory functioning of the device or safety is restricted in any way		
6	protected against dust	No penetration of dust		

Table 4: Degrees of protection against access to dangerous components, identified by the additional letter

First identification	Degree of protection		Test conditions
number	Brief description	Definition	see section
А	protected against touch with the back of hand	The access probe, 50 mm diameter sphere, must be at a sufficient distance away from dangerous components	15.2
В	protected against touch with the finger	The jointed test finger, 12 mm in diameter, 80 mm in length, sufficient distance away from dangerous components	15.2
С	protected against access with a tool	The access probe with a diameter of 2.5 mm and a length of 100 mm must be a sufficient distance away from dangerous components	15.2
D	protected against access with a wire	The access probe with a diameter of 1.0 mm and a length of 100 mm must be a sufficient distance away from dangerous components	15.2



Table 3: Degree of protection against water, identified by the second identification number

Cananal identification	Degree of protection		
Second identification number	Brief description	Definition	
0	unprotected	-	
1	protected against dripping water	Dripping water falling vertically must not have a damaging effect	
2	protected against dripping water if the housing is sloped up to 15°	Dripping water falling vertically must not have a damaging effect if the housing is sloped by an angle of up to 15° both sides of the vertical	
3	protected against spraying water	Water that is sprayed at an angle of 60° both sides of the vertical must not have any damaging effect	
4	protected against splashing water	Water that is sprayed from all directions against the housing must not have any damaging effect	
5	protected against jet water	Water that is directed from all directions as a jet against the housing must not have any damaging effect	
6	protected against powerful jet water	Water that is directed from all directions as a powerful jet against the housing must not have any damaging effect	
7	protected against the effects of temporary immersion in water	Water must not penetrate in a quantity to cause damage if the housing is immersed temporarily in water under standard pressure and time conditions	
8	protected against the effects of continuous immersion in water	Water must not penetrate in a quantity to cause damage if the housing is continuously immersed in water conditions that must be arranged between the manufacturer and the user. The conditions must however be more severe than for identification number 7.	

Degree of protection against water, identified by the second identification number

The second identification number gives the protection category through housing in light of damaging influences on the electrical equipment following penetration of water.

Table 3 gives short descriptions and definitions for the degrees of protection that are represented by the second identification number .

Degrees of protection that are given in this table may only be determined by the second identification number and not by reference to the short description or definition. Until the second identification number 6, the designation means that the requirements for all the lower identification numbers have been fulfilled.

A housing that is identified only with the second identification number 7 or 8 is considered unsuitable for stress through jet water (identified with the second identification number 5 or 6) and does not need to meet the requirements of number 5 or 6. It should be provided with a double identification according to the following table:

The housing complies with the test for			
jet water, second identification number	temporary/continuous immersion, second identification number	Identification and label	Field of application
5	7	IPX5 / IPX7	varied
6	7	IPX6 / IPX7	varied
5	8	IPX5 / IPX8	varied
6	8	IPX6 / IPX8	varied
	7	IPX7	limited
	8	IPX8	limited

Housings for "varied" use, as indicated in the last column, must meet the requirements both for exposure to jet water and temporary or continuous immersion in water.

Housings for "limited" use, as indicated in the last column, are only regarded as suitable for temporary or continuous immersion and as unsuitable for exposure to jet water.



Modular terminals for installations with explosion hazard (Ex terminals) Protection category "Increased safety Eex e"

Ex terminals are modular terminals that have been tested and certified by a European Ex test institute in accordance with

DIN EN 50 014 – VDE 0171 part 1 "General requirements" and

DIN EN 50 019 – VDE 0170/0171 part 6 "Protection category: Increased safety 'e' "

The protection category "Increased safety EEx e" applies to electrical equipment that resists sparks, electric arcing or hazardous surface temperatures during operation. Modular terminals thus fall into temperature category T6, in which electrical equipment at an ambient temperature of 40°C and being operated in compliance with regulations, does not exceed the maximum temperature (surface temperature) of 85°C. Certified test institutes are e.g. the Physikalisch Technische Bundesanstalt PTB in Germany, the Laboratoire Central des Industries Electrique LCIE in France, the Health and Safety Executive BASEEFA in England, the EX-Labor of ASEV in Switzerland amongst others.

However, for modular terminals used as incomplete electrical equipment, only a partial certification is issued. This certificate is the basis for the final inspection and certification of the complete installation before it is commissioned by an expert.

The certificate (partial certification) includes a description of the modular terminals, in which special requirements regarding the preparation of terminal strips are made e.g. installing separating end cover plates when modular terminals are connected in series.

Test Certificate

Certificates from LCIE and ASEV are available for feed through terminals of the WK... range and protective conductor terminals of the WK...SL.. range, if indicated. The certificates identify the relevant nominal data and include the accessories listed in the description. The areas of application are divided into:

Group I: Electrical equipment for mines with firedamp hazard

Group II: Electrical equipment for areas with explosion hazard except for mines with firedamp hazard (e.g. installations with explosion hazard for the chemical and petrochemical industries)

In accordance with a resolution of the DKE, Deutsche Elektrotechnische Kommission, terminals are also accepted as electrical equipment for Group I (firedamp protection Eex e I) for which only the increased safety protection type 'e' for Group II (explosion protection Eex e II) has been certified and vice versa.

Modular terminals with Ex protection are identified with the label EEx e I/II or EEx e II and with the approval number. The complete test certification with a description is available upon request.

Protection category "Intrinsic safety Eex i"

According to the installation specification DIN VDE 0165, electrical equipment installed in areas with explosion hazard of group II, zone I (chemical and petrochemical industries) are excluded from the type test and obligatory marking, if they do not contain any voltage source and correspond to DIN EN 50020-VDE 0170/0171 part 7. This applies in particular to feed through terminals in the standard version, as DIN EN 50020 does not make any special demands on connector terminals of the protection category Eex i.

It has been generally accepted that feed through terminals in intrinsically safe circuits are clearly marked with the blue coloring of the insulated housing. For intrinsically safe circuits, feed through terminals can be used in the standard version and if required available with blue insulating housing.

EEx approvals according to the ATEX guideline - 94/9/EG

(ATEX = Atmospheres Explosibles) are currently being prepared.

This guideline aims at clarifying the procedures and applications of devices, components and protective systems to make them suitable for use in explosion hazard areas. Their proper use shall then help to eliminate the barriers and difficulties that occur in the free exchange of goods within the European Community. The transition period between EEx approvals and the ATEX guideline will last until June 30, 2003.

DIN VDE 0106 part 100: 1983 – 03 Protection against electrical shock. Layout of operating devices near live components

The standard cited in the **Accident Prevention Regulation VBG 4** is seen as the basis for the layout of electrical equipment up to $1000 \text{ V} \sim (1500 \text{ V}_{=})$ as regards protection against direct contact, where operating devices are arranged near live components that are operated by at least electrotechnically instructed persons (occasional handling).

A protected zone is established for this purpose which must be reached into on "occasional handling" of the operating device (switch, push button, rotary button). A distance of

- 30 mm around the operating device "safety from finger touch" and
- 100 mm around the operating device "safety from touch by the back of the hand"

is designed and required.

The VBG 4 regulation is directed at the installer or user of electrical installations who must plan, build and finally operate the installation in accordance with accident prevention regulations. The installer has the task of selecting electrical equipment with the objective and if necessary making it safe to touch using accessories. Only he can confirm that his installation conforms to the accident prevention regulation VBG4.

Wieland develops, builds and tests its products according to the relevant equipment and safety regulations that are likewise cited in regulation VBG4 and moreover offers a range of accessories that takes this requirement into account.

Standards and specifications



Range of standards DIN VDE 0100

Installation of power systems and equipment with nominal voltages up to 1,000 V

This VDE regulation is a regulation for installations but also contains important details for the manufacturer of equipment and components such as permissible loads for cables, the use of protective conductor terminals and neutral conductor isolating terminals.

DIN EN 50 110-1/VDE 0105 part 1: 10.97

Operation of power systems and equipment

DIN VDE 0106-100/VDE 0106 part 100: 03.83

Protection against electric shock;

Actuating members positioned close to parts liable to shock (VDE Specifications)

DIN VDE 0106-101/VDE 0106 part 101: 11.86

Protection against electric shock;

Basis requirements for protective separation in electrical equipment

DIN VDE 0108-1/VDE 0108 part 1: 10.89

Power systems and safety power supply in building installations for groups of people; general

DIN VDE 0110/11.72 und DIN VDE 0110 b/02.79 withdrawn!

Insulation coordination for electrical equipment in low-voltage installations

- Measurement of creepage distances and clearances

DIN VDE 0110-1/VDE 0110 part 1: 04.97

(IEC 60 664-1: 1992, modified)

HD 625.1 S1: 1996

- Basic principles, requirements and tests

DIN EN 60 204 1/VDE 0113 part 1: 11.98

(IEC 60 204-1: 1992, modified)

Electrical equipping of machines; part 1: general requirements

DIN EN 50 178/VDE 0160: 04.98

Equipping of power installations with electronic equipment

DIN VDE 0165: 02.91

Installation of electrical systems and equipment in areas with explosion hazard

DIN EN 60 079-14/VDE 0165 part 1: 08.98

EN 50 014: 1992/DIN VDE 0170/0171 part 1: 03.94 withdrawn

Electrical equipment for areas with explosion hazard; general specifications

DIN EN 50014/VDE 0170/0171 part 1: 02.00

DIN EN 50 019: VDE 0170/0171 part 6: 03.96

Electrical equipment for areas with explosion hazard; increased safety "e"

DIN EN 50 020: VDE 0170/0171 part 7: 04.96

Electrical equipment for areas with explosion hazard; intrinsic safety "i"

DIN EN 60 529: VDE 0470 part 1: 09.00

(IEC 60 529: 1989, +A: 1999)

Protection categories by housing (IP code)

DIN VDE 0606: 02.76 and with

DIN VDE 0606 b: 02.80 withdrawn*

VDE specification for connecting devices up to 750 V

Installation consumer units and meter mounting boards up to 250 V

facts

DIN VDE 0606 part 1: 11.84 withdrawn*

Connecting devices up to 660 V; installation boxes for taking up devices and/or connecting terminals

DIN VDE 0609 part 1: 06.83

partly replaced by DIN EN 60999-1/VDE 0609 part 1: 12.00

Connecting points for screw terminals for connecting or linking copper conductors up to 240 mm²; general definitions

DIN EN 60 999: VDE 0609 part 1: 12.00

(IEC 60 999: 1999)

Connecting devices, safety requirements for screw terminal connections and screwless terminal connections for electrical copper conductors

DIN EN 60 947-7-1: VDE 0611 part 1: 05.00

(IEC 60 947-7-1: 1989)

Low-voltage switching devices

Part 7: Auxiliary equipment

Main section 1 – modular terminals for copper conductors

DIN EN 60 947-7-2: VDE 0611 part 3: 06.96

(IEC 60 947-7-2: 1995)

Low-voltage switching devices

Part 7: Auxiliary devices

Main section 2 – ground conductor terminals for copper conductors

DIN VDE 0611 part 3: 11.89

withdrawn, replaced by DIN EN 60 947-7-2/VDE 0611 part 3: 06.96

(transition period until 01.07.2001)

Modular terminals for connecting or linking copper conductors, protective conductive modular terminals up to 120 mm²

DIN VDE 0611-4/VDE 0611 part 4: 02.91

Modular terminals for connecting or linking copper conductors; multi-tier distribution board for modular terminals up to 6 mm²

E DIN VDE 0611-6/VDE 0611 part 6: 05.95

Modular terminals for copper conductors Safety requirements for modular terminals for taking up fuse units

DIN VDE 0611-20/VDE 0611 part 20: 12.87

Modular terminal blocks for connection of copper conductors up to 1000 V a.c. and up to 1200 V d.c.; test for flammability and flame propagation

DIN EN 60 998-1/VDE 0613-1: 04.94

(IEC 60 998-1: 1990, modified)

Connecting devices for low-voltage circuits for household

and similar use

Part 1: General requirements

DIN EN 60 998-2-1/VDE 0613 part 2-1: 04.94

(IEC 60 998-2-1: 1990, modified)

Connecting devices for low-voltage circuits for household and similar use

Part 2-1: Special requirements for connecting devices as separate equipment and screw terminals

DIN EN 60 998-2-2/VDE 0613 part 2-2: 08.94

(IEC 60 998-2-2: 1991)

Connecting devices for low-voltage circuits for household and similar use

Part 2-2: Special requirements for connecting devices as separate equipment and screwless terminals

Standards and specifications



DIN EN 60 998-2-3/VDE 0613 part 2-3: 09.94

(IEC 60 998-2-3: 1991)

Connecting devices for low-voltage circuits for household and similar use

Part 2-3: Special requirements for connecting devices as separate equipment and IDC terminals

DIN EN 61 210/VDE 0613 part 6: 09.95

(IEC 61 210: 1993 modified) Connecting devices

Flat push-on connection for electrical copper conductors; safety requirements

DIN EN 50 262/VDE 0619: 04.99

Metric cable glands for electrical installations; German version EN 50262: 1998

DIN EN 60 320-1/VDE 0625 part 1: 07.97

(IEC 60 320-1: 1994, modified + A1: 1995)

Appliance couplers for household and and similar general use

DIN EN 60 320-1 A2/VDE 0625 part 1 A2: 10.98

(IEC 60 320-1: 1994/A2: 1996)

Modification no. 2

DIN EN 60 320-2-2/VDE 0625 part 2-2: 09.99

(IEC 60 320-2-2: 1990, modified)

Appliance couplers for household and and similar general use

Part 2: Remote connections for devices for household use and similar installations

DIN EN 60 799/VDE 0626: 06.99

(IEC 60 799: 1998)

Electrical accessories - Cord sets and interconnection cord sets (IEC 60 799: 1998);

German version EN 60 799: 1998

DIN VDE 0627: 06.86

Plug-in connectors and plug and socket devices with rated voltages up to AC 1000 V, up to DC 1200 V and rated currents up to 500 A per contact

DIN VDE 0628: 11.84

Plug-in connectors for nominal voltages up to AC 380 V with nominal current of 16 A

DIN IEC 23/221/CD/VDE 0606 part 1535: 07.96

Separable connecting devices intended for permanent connection – Part. 1 : General requirements; IEC 23/221/CD: 1996

DIN EN 60 947-1/VDE 0660 part 100: 12.99

(IEC 60 947-1: 1996, modified + Corrigendum March 1998)

Low-voltage switching devices Part 1: General definitions

DIN EN 60 439-1/VDE 0660 part 500: 08.00

(IEC 60 439-1: 1999)

Low-voltage switchgear and controlgear assemblies - Part 1:

Type-tested and partially type-tested assemblies

DIN EN 60 439-3/VDE 0660 part 504: 04.92

(IEC 60 439-3: 1990, modified)

Switching devices; low-voltage switchgear assembly;

Part 3: Special requirements of low-voltage switchgear assembly that laymen have access to operate,

- Distribution boards -

DIN EN 60 335-1/VDE 0700 part 1: 10.95

(IEC 60 335-1: 1991, modified)

Safety of electrical devices for household and similar use;

Part 1: General requirements

EN 60 335-1 A2: 1988, A5: 1989, A6: 1989 and A51: 1991/DIN VDE 0700 part 1 A6: 12.91

Safety of electrical devices for household and similar use

Part 1: General requirements (modifications)

DIN EN 60 598-1/VDE 0711 part 1: 08.98

(IEC 60 598-1: 1996, modified)

Luminaires

Part 1: General requirements and tests

DIN EN 60 127-2/VDE 0820 part 2: 08.96

(IEC 60 127-2: 1989 + A1: 1995 + A2: 2000)

Miniature fuses Part 2: Cartridge fuse-links German version EN 60 127-2: 1989 + A1: 1995 + A2: 2000

DIN EN 60 127-6/VDE 0820 part 6: 12.96

(IEC 60 127-6: 1994 + A1996) VDE specification for fuses (G fuses) Specification for G fuse holder

EN 60 715: 2001/DIN EN 60 715: 09.2001

Dimensions of low-voltage switchgear and controlgear

Standardized mounting on rails for mechanical support of electrical devices in switchgear and controlgear installations

(IEC 60 715: 1981 + A1: 1995); German version EN 60 715: 2001

IEC 60 038: 1983/DIN IEC 38: 05.87

and supplement 1 to DIN IEC 38/12.92

IEC standard voltages

At the end of 1993, the international standard IEC 38 "IEC standard voltages" was agreed.

In the framework of this standard it was not possible to standardize worldwide the applicable voltage values 220/380 V, 230/400 V and 240/415 V for 50 Hz low-voltage supply networks.

The supply nominal voltage should according to this standard not exceed the values 230/400 V + 6 %/-10 % during the transition period up to the year 2003.

Through these defined tolerances for the optional voltage of the networks, it is possible that 220/380 V rated electrical equipment, as indicated in DIN IEC 38, can be used safely until the end of their service life.

All the considerations indicated above should be used at the existing value of 380/660 V in light of the new value of 400/690 V.

Therefore, products that are tested, documented and labelled for 220/380 V have unlimited use in devices and installations for 230/400 V supply voltage until the end of the transition period.

DIN IEC 512 part 3: 05.94

Measurement and test procedures for electrical and mechanical components

Test 5b: Current carrying capacity (Derating curve)

DIN 43 652 part 1-3: 12.85 withdrawn

High-density connectors; square design

replaced by

DIN EN 175 301-801: 09.00

Detail Specification: High density rectangular connectors, round removable crimp contacts;

(German version EN 175 301-801: 1999)

Standards and specifications for electronic components facts & DATA

The indicated standards and regulations are considered for the development and manufacturing of our products, as applicable.

The installation instructions are also to be followed when installing our products in devices and systems.

New nominal supply voltages 30/400 V worldwide

Since the publication of standard IEC 38 in 1983, 230/400 V has replaced 220/380 V as international value for public low-voltage networks.

The supply nominal voltage should according to this standard not exceed the values 230/400 V + 6 %/-10 %, i.e. the range between 244 V and 207 V, during the transition period up to the year 2003.

Through these defined tolerances for the optional voltage of the networks, it is possible that 220/380 V rated electrical equipment, as indicated in DIN IEC 38, can be used safely until the end of their service life.

All the considerations indicated above should be used at the existing value of 380/660 V in light of the new value of 400/690 V.

DIN VDE 0106-100/VDE 0106 part 100: 03.83

(DIN 57106-100)

Protection of electric shock;

Actuating members positioned close to parts liable to shock (VDE Specification)

DIN VDE 0106-101/ VDE 106 part 101: 11.86

Protection against electric shock;

basic requirements for protective separation

DIN EN 50 178/VDE 0160/: 04.98

Equipping of power installations with electronic equipment

EN 50 005: 1976/DIN EN 50 005: 1977-07

Low voltage switchgear and controlgear for industrial use;

Terminal marking; General rules

IEC 60 038: 1983/DIN IEC 60 038: 1987-05

(DIN 40 002)

IEC standard voltages

IEC 60 127-2: 1989/EN 60 127-2: 1991/

DIN EN 60 127-2 1996-08

Miniature fuses; part 2: cartridge fuse-links

IEC 60 255/DIN VDE 0435

(1999-01)

Electrical relays; terms and definitions

DIN EN 60529 /VDE 0470 part 1: 09.00

(IEC 61529: 1989)

Protection categories by housing (IP code)

IEC 60 742: 1983 + A1/EN 60 742: 1995/ DIN EN 60 742/VDE 0551: 1995-09

Isolating transformers and safety isolating transformers - Requirements

DIN EN 60 068-2-1: 1995-03 Environmental testing

EN 600 68-2-1: 1985-08 IEC 600 68-2-1: 1990-04

Part 2: Tests; Tests A: Cold

DIN EN 60 068-2-2: 1994-08 Basic environmental testing procedures

EN 600 68-2-2: 1993-0

IEC 600 68-2-2

Part 2: Tests - Tests B: Dry heat

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DIN EN 60 068-2-6: 1996-05 Environmental testing EN 600 68-2-6: 1995-04/IEC 600 68-2-6: 1995-03

Part 2: Tests, Test Fc: Vibration (sinusoidal) (IEC 68-2-6: 1995 + Corrigendum 1995) German version EN 60 068-2-6: 1995

DIN EN 60 068-2-32: 1995-03 Basic environmental testing procedures -

EN 600 68-2-32: 1993-04/IEC 600 68-2-32

Part 2: Tests; Test Ed: Free fall (IEC 68-2-32: 1975 + A1: 1982 + A2: 1990); German version EN 60 068-2-32: 1993

DIN EN 61 131-2/EN 61 131-2/

VDE 0411 part 500: 1995-05/IEC 61 131-2: 1992

Programmable controllers – Part 2: Equipment requirements and tests (IEC 61 131-2: 1992); German version EN 61 131-2: 1994 + A11: 1996 + A12: 2000 + Corrigendum to EN 61 131-2: 1994 and its amendment A11: 1996

DIN EN 50 090-2-2/EN 50 090-2-2: 1996-06

VDE 0829 part 2-2: 1997-06

Home and building electronic systems (HBES) - Part 2-2: System overview - General technical requirements

DIN EN 50 170/2: 1997-07

EN 50 170: 1996-12

General purpose field communication system

EN 61 000-6-3 (2001-12) DIN EN 61 000-6-3/VDE 0839 part 6-3 (2001-12)

Electromagnetic compatibility (EMC) – Part 6-3: Generic standards; Emission standard for residential, commercial and light-industrial environments (IEC 61 000-6-3: 1996, modified)

EN 61 000-6-4 (2001-10) DIN EN 61 000-6-4/VDE 0839 part 6-4 (2001-12)

Electromagnetic compatibility (EMC) – Part 6-4: Generic standards; Emission standard for industrial environments, (IEC 61 000-6-4: 1997, modified); German version

EN 61 000-6-1 (2001-10) DIN EN 50 082-1/VDE 0839 part 82-1: 1997-11

Electromagnetic compatibility - Generic immunity standard - Part 1: Residential, commercial and light industry

IEC 61 000-6-2; 1999-01/EN 61 000-6-2 (2001-10)/DIN EN 61 000-6-2/VDE 0839 part 6-2 (2001-12)

Electromagnetic compatibility (EMC) -

Part 6-2: Generic standards – Immunity for industrial environments (IEC 61 000-6-2: 1999)

IEC 61 000-4-2: 1995-01/EN 61 000-4-2: 1995-03/DIN EN 61 000-4-2/VDE 0847 part 4-2: 2001-12

Electromagnetic compatibility (EMC) – Part 4: Testing and measuring techniques – Section 2: Electrostatic discharge immunity test, Basic EMC Publication (IEC 1000-4-2: 1995); German version EN 61 000-4-2: 1995

IEC 61 000-4-3: 1995/EN 61 000-4-3: 1996/DIN EN 61 000-4-3/

VDE 0847 part 4-3: 2001-12

Electromagnetic compatibility (EMC) – Part 4: Testing and measuring techniques – Section 3: Radiated, radio-frequency electromagnetic field immunity test (IEC 1000-4-3: 1995, modified); German version EN 61 000-4-3: 1996

IEC 61 000-4-4: 1995-01/EN 61 000-4-4: 1995-03/DIN EN 61 000-4-4/ VDE 0847 part 4-4: 2001-12

Electromagnetic compatibility (EMC) – Part 4: Testing and measuring techniques – Section 4: Electrical test transient/burst immunity test, Basic EMC Publication (IEC 1000-4-4: 1995); German version EN 61 000-4-4: 1995

IEC 61 000-4-5: 1995-02/EN 61 000-4-5: 1995-03/DIN EN 61 000-4-5/ VDE 0847 part 4-5: 2001-12

Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Section 5: Surge immunity test (IEC 1000-4-5: 1995); German version EN 61 000-4-5: 1995

Standards and specifications for electronic components facts & DATA

IEC 61 000-4-6 1996-03; EN 61 000-4-6 1996-07; DIN EN 61 000-4-6/VDE 0847 part 4-6 2001-12

Electromagnetic compatibility (EMC) – Part 4: Testing and measuring techniques – Section 6: Immunity to conducted disturbances, induced by radio-frequency fields (IEC 1000-4-6: 1996); German version EN 61 000-4-6: 1996

IEC 61 000-4-11 (1994) EN 61 000-4-11 (1994-08) DIN EN 61 000-4-11/VDE 0847 part 4-11

Electromagnetic compatibility (EMC) – Part 4: Testing and measuring techniques – Section 11: Voltages dips, short interruptions and voltages variations immunity tests (IEC 1000-4-11: 1994); German version EN 61 000-4-11: 1994

IEC 61 000-4-15 (1997-11) EN 61 000-4-15 (1998-04) DIN EN 61 000-4-15/VDE 0847 part 4-15 (1998-11)

Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Section 15: Flickermeter – Functional and design specifications

IEC 61 000-3-3 (1994-12) EN 61 000-3-3 (1995-01) DIN EN 61 000-3-3/VDE 0838 part 3 (1996-03)

Electromagnetic compatibility (EMC) – Part 3: Limits; section 3: Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current < kleiner ≥ 16 A

IEC 61 000-3-2 (2000-08) EN 61 000-3-2 (1995-04) DIN EN 61 000-3-2/VDE 0838 part 2 (1998-10)

Electromagnetic compatibility (EMC) – Part 3-2: Limits; Limits for harmonic current emissions (equipment input current < kleiner ≥ 16 A per phase)

EN 50 081-1 1992-01-00

DIN EN 50 081/VDE 0839 part 81-1 1993-03-00

Electromagnetic compatibility; generic emission standard; part 1: residential, commercial and light industry

DIN EN 55 011/VDE 0875 part 11: 2000-05

EN 55 011: 1998-03

IEC 60 255/DIN VDE 0435 (1999-01-00) VDE 0551 = DIN EN 60742 (1995-09)

DIN EN 55 011/VDE 0875 part 11: 2000-05-00

Industrial, scientific and medical (ISM) radio-frequency equipment – Radio disturbance characteristics – Limits and methods of measurement (IEC/CISPR 11: 1997, modified + A1: 1999); German version EN 55 011: 1998 + A1: 1999

UL 94: 1996-10

Tests for flammability of plastic materials for parts in devices and appliances

VBG 4: 1979-04

Electric installation and equipment

COUNCIL DIRECTIVE

of 3 May 1989 on the approximation of the laws of the Member States relating to electromagnetic compatibility (89/336/EEC)

facts

List of approval and test institutes and test laboratories

facts & DATA

		AVK-TV	Arbeitsgemeinschaft Verstärkte Kunststoff	e-Techn. Vereinigung e. V., Germany
BVS		BVS	Bergbau Versuchstrecke (DMT), Germany	
BSI		BSI	British Standards Institution, Great Britain	For more information visit us
B		BBJ	Biuro Badawcze ds. Jakosci, Poland	For more information the internet under on the internet under unde
BV		BV	Bureau Veritas, France	on the internet under www.wieland-electric.com
(1)		CSA	Canadian Standards Association, Canada	
		CCA	CCA-NTR, CENELEC CERTIFICATION AGE	REEMENT-
_		AU	Chief Electrical Inspector, Victoria, Australi	а
CEBEC		CEBEC	Comite Electrotechnique Belge, Belgium	
\bigcirc		DEMKO	Danmarks Elektriske Materielkontrol, Deni	mark
NV		DNV	Det Norske Veritas, Norway	
		AU-DFT	Department of Fair Trading, NSW Consum	er Protection Agency, Australia
EPM		EPM	Elektrisches Prüfamt München, Germany	
(5)		ESTI	Eidgenössisches Starkstrominspektorat, S	witzerland
Ela		EIBA	European Installation Bus Association sc ,	Belgium
		ELMAC	EMV Labor J. Bühne, Germany	
(FI)		FIMKO	Electrical Inspectorate, Finnland	
		EZU	Electrotechnical Testing Institute, Czech Re	epublic
		DQS	Frankfurt, Germany	
GL		GL	Germanischer Lloyd, Germany	
S		GS	Geprüfte Sicherheit, Germany	
		EMCC	Ingenieurbüro EMCC Dr. Rasek, Germany	
		MY-JBP	IBU Pejabat, Jabatan Bomba dan Penyelar	nat, Malaysia
W		IMQ	Instituto Italiano del Marchio di Qualita, Ita	ly
KEMA		KEMA	Keuring van Elektrotechnische Materialen,	Netherlands, KEMA-ATEX
		IEL-Pr.Ber	Laboratorium Badawcze Oddz. Instyt. Elek	trotechn. w Gdansku, Poland
LCIE		LCIE-EEX	Laboratoire Central des Industries Electriq	ues, France
LGA		LGA	Landesgewerbeanstalt Bayern, Germany	
	-PrBer	LCIE-PrBer	LCIE-Prüfbericht, France	
LD				

Lloyd's Register of Shipping, Great Britain

LR

LR



MEEI Magyar Elektrotechnikai Ellenoerzoe Intezet, Hungary

NEMKO Norges Elektriske Materiellkontroll, Norway

ÖVE Österreichischer Verband für Elektrotechnik, Austria

PTB Physikalisch-Technische Bundesanstalt, Germany

BGFE Prüf-u. Zert.stelle der Berufsgen. der Feinmech. u. Elektrt., Germany

RINA Registro Italiano Navale, Italy

Belstandart White Russia

BKI-EEx BKI-EEx Robbanasbiztos Villamos Berendezesek Vizsgalo Allomasa, Hungary

GOST R Russian Federation

Russ. Reg. of Shipping, Russia

SEV Schweizerischer Elektrotechnischer Verein, Switzerland

EMV-SIE Siemens AG, AUT GT 6, Germany

SEV-EEX SEV-EEX SEV Ex-Labor "Explosionsschutz", Switzerland

SKTC Slovak Testing Centre, Elektrotechnicky ustav a.s., Slovakia

SIQ Slovenian Institute of Quality and Metrology, Slovenia

MPA Staatliche Materialprüfungsanstalt Darmstadt, Germany

SEMKO Svenska Elektriska Materielkontrollanstalten, Sweden

TÜV TüV Technischer Überwachungsverein, Germany

ASTA ASTA The Association of Short Circuit Testing Authoryties, Great Britain

Ukrdershst Ukrdershstandart, Ukraine

(UL) ULlist Underwriters Laboratories Inc.(UL Listed), USA

ULrec Underwriters Laboratories Inc.(UL Recogn.), USA

UTE Union Technique de l'Electricite, France

VDE-UG VDE Gutachten mit Fertigungsüberwachung, Germany

VDE-PB VDE Pruefbericht zur Information des Herstellers, Germany

VDE Verband Deutscher Elektrotechniker e.V., Germany

ZIK Zavod za Ispitivanje Kvalitete robe, Croatia

Approval marks for "special tests"

C UR US Underwr. Lab. Inc.(C-UL Recogn.-US), USA/Canada

C UL US Underwr. Lab. Inc.(C-UL Listed-US), USA/Canada

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7386 / 6 TOP H OB	27.714.0653.0	355	8105 B / 6 C2 OB GR	15.002.0653.0	382	8113 B / 5 VR	25.325.0553.0	289
7572 L2 / 2 OB	27.002.2253.0	376	8105 B / 6 C2 VL OB	15.012.0653.0	383	8113 B / 5 VR OB	25.325.3553.0	289
7572 L2 / 3 / 2 OB	27.002.4253.0	377	8105 B / 6 C2 VR OB	15.022.0653.0	382	8113 B / 6	25.320.0653.0	286
7572 L2 / 3 OB	27.002.2353.0	376	8105 B / 7 C0 OB	15.000.0753.0	382	8113 B / 6 F	25.322.0653.0	286
7572 L2 / 5 / 3 OB	27.002.4353.0	377	8105 B / 7 CO VL OB	15.010.0753.0	383	8113 B / 6 F OB	25.322.3653.0	286
7572 L4 / 2 OB	27.002.0253.0	376	8105 B / 7 CO VR OB	15.020.0753.0	382	8113 B / 6 OB	25.320.3653.0	286
7572 L4 / 3 OB	27.002.0353.0	376	8105 B / 7 C1 OB	15.001.0753.0	382	8113 B / 6 TOP	25.220.0653.0	296
7573 L2 / 3 W OB	27.002.6353.0		8105 B / 7 C1 VL OB	15.011.0753.0	383	8113 B / 6 TOP LED OB	25.230.3653.0	296
7573 L2 / 4 W OB	27.002.6453.0	375	8105 B / 7 C1 VR OB	15.021.0753.0	382	8113 B / 6 TOP OB	25.220.3653.0	296
8006 / 2 BZ	04.030.0080.0	260	8105 B / 7 C2 OB	15.002.0753.0	382	8113 B / 6 VL	25.326.0653.0	289
8006 / 3 BZ	04.030.0180.0	260	8105 B / 7 C2 VL OB	15.012.0753.0	383	8113 B / 6 VL OB	25.326.3653.0	289
8006 / 4 BZ	04.030.0280.0	260	8105 B / 7 C2 VR OB	15.022.0753.0	382	8113 B / 6 VR	25.325.0653.0	289
8006 / 5 BZ	04.030.0380.0	260	8105 F / 2 G C1 OB NT	15.301.0258.9	383	8113 B / 6 VR OB	25.325.3653.0	289
8006 / 6 BZ	04.030.0480.0	260	8105 F / 2 G C2 OB NT	15.302.0258.9	383	8113 B / 7	25.320.0753.0	286
8006 / 12 BZ	04.030.1080.0	260	8105 F / 2 G C3 OB NT	15.303.0258.9	383	8113 B / 7 F	25.322.0753.0	286
8006 M BZ	04.030.1180.0	260	8105 F / 2 G C4 OB NT	15.304.0258.9	383	8113 B / 7 F OB	25.322.3753.0	286
8016 / 2 BZ	04.080.0080.0	260	8105 F / 2 G C5 OB NT	15.305.0258.9	■ 383	8113 B / 7 OB	25.320.3753.0	286
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8016 / 5 BZ	04.080.0380.0	260	8105 F / 2 W C1 OB NT	15.311.0258.9	383	8113 B / 7 TOP OB	25.220.3753.0	296
8016 / 6 BZ	04.080.0480.0	260	8105 F / 2 W C2 OB NT	15.312.0258.9	383	8113 B / 7 VL	25.326.0753.0	289
8016 / 12 BZ	04.080.1080.0	260	8105 F / 2 W C3 OB NT	15.313.0258.9	383	8113 B / 7 VL OB	25.326.3753.0	289
8016 M BZ	04.080.1180.0	260	8105 F / 2 W C4 OB NT	15.314.0258.9	383	8113 B / 7 VR	25.325.0753.0	289
8105 / B 2 C5 VR OB	15.025.0253.0	382	8105 F / 2 W C5 0B NT	15.315.0258.9	383	8113 B / 7 VR OB	25.325.3753.0	289
8105 B / 2 C0 OB	15.000.0253.0	382	8105 F / 2 W C6 0B NT	15.316.0258.9	383	8113 B / 8	25.320.0853.0	286
8105 B / 2 CO VL OB	15.010.0253.0	383	8105 F / 3 G C1 OB NT	15.301.0358.9	383	8113 B / 8 F	25.322.0853.0	286
8105 B / 2 CO VR OB	15.020.0253.0	382	8105 F / 3 G C2 OB NT	15.302.0358.9	383	8113 B / 8 F OB	25.322.3853.0	286
8105 B / 2 C1 OB	15.001.0253.0	382	8105 F / 3 G C3 OB NT	15.303.0358.9	383	8113 B / 8 OB	25.320.3853.0	286
8105 B / 2 C1 VL OB GR	15.011.0253.0	383	8105 F / 3 G C4 OB NT	15.304.0358.9	383	8113 B / 8 TOP	25.220.0853.0	296
8105 B / 2 C1 VR OB	15.021.0253.0	382	8105 F / 3 G C5 OB NT	15.305.0358.9	383	8113 B / 8 TOP LED OB	25.230.3853.0	296
8105 B / 2 C2 OB	15.002.0253.0		8105 F / 3 G C6 OB NT	15.306.0358.9	383	8113 B / 8 TOP OB	25.220.3853.0	296
8105 B / 2 C2 VL OB GR	15.012.0253.0	383	8105 F / 3 G C7 OB NT	15.307.0358.9	383	8113 B / 8 VL	25.326.0853.0	289
8105 B / 2 C2 VR OB GR	15.022.0253.0	382	8105 F / 3 W C1 OB NT	15.311.0358.9	383	8113 B / 8 VL OB	25.326.3853.0	289
8105 B / 2 C3 OB	15.003.0253.0	382	8105 F / 3 W C2 OB NT	15.312.0358.9	383	8113 B / 8 VR	25.325.0853.0	289
8105 B / 2 C3 VL OB	15.013.0253.0	383	8105 F / 3 W C3 0B NT	15.313.0358.9	383	8113 B / 8 VR OB	25.325.3853.0	289
8105 B / 2 C3 VR OB	15.023.0253.0	382	8105 F / 3 W C4 0B NT	15.314.0358.9	383	8113 B / 9	25.320.0953.0	286
8105 B / 2 C4 OB	15.004.0253.0	382	8105 F / 3 W C5 OB NT	15.315.0358.9	383	8113 B / 9 F	25.322.0953.0	286
8105 B / 2 C4 VL OB	15.014.0253.0	383	8105 F / 3 W C6 OB NT	15.316.0358.9	383	8113 B / 9 F OB	25.322.3953.0	286
8105 B / 2 C4 VR OB GR	15.024.0253.0	382	8105 F / 3 W C7 OB NT 8105 F / 4 G C1 OB NT	15.317.0358.9	383	8113 B / 9 OB	25.320.3953.0	286
8105 B / 2 C5 OB	15.005.0253.0	382	8105 F / 4 G C2 OB NT	15.301.0458.9	383	8113 B / 9 TOP	25.220.0953.0	296
8105 B / 2 C5 VL OB	15.015.0253.0	383		15.302.0458.9	383	8113 B / 9 TOP LED OB	25.230.3953.0	296
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8105 B / 2 C6 VR OB	15.026.0253.0	382	8105 F / 4 G C5 OB NT	15.305.0458.9	383	8113 B / 9 VL OB	25.326.3953.0	289
8105 B / 2 C7 OB	15.007.0253.0	382	8105 F / 4 G C6 OB NT	15.306.0458.9	383	8113 B / 9 VR	25.325.0953.0	289
8105 B / 2 C7 VL OB	15.017.0253.0	383	8105 F / 4 W C1 OB NT	15.311.0458.9	383	8113 B / 9 VR OB	25.325.3953.0	289
8105 B / 2 C7 VR OB GR	15.027.0253.0		8105 F / 4 W C2 OB NT	15.312.0458.9	383	8113 B / 10	25.320.1053.0	286
8105 B / 3 C0 OB 8105 B / 3 C0 VL OB	15.000.0353.0	382	8105 F / 4 W C3 OB NT	15.313.0458.9	383	8113 B / 10 F	25.322.1053.0	286
8105 B / 3 CO VR OB	15.010.0353.0 15.020.0353.0	382	8105 F / 4 W C4 0B NT 8105 F / 4 W C5 0B NT	15.314.0458.9 15.315.0458.9	383 383	8113 B / 10 F 0B 8113 B / 10 0B	25.322.4053.0 25.320.4053.0	286 286
8105 B / 3 C1 OB	15.001.0353.0	382	8105 F / 4 W C6 OB NT	15.316.0458.9	383	8113 B / 10 TOP	25.220.1053.0	296
8105 B / 3 C1 VL OB	15.011.0353.0	383	8105 F / 5 G C1 OB NT	15.301.0558.9	383	8113 B / 10 TOP LED OB	25.230.4053.0	296
8105 B / 3 C1 VR OB	15.021.0353.0	382	8105 F / 5 G C2 OB NT	15.302.0558.9	383	8113 B / 10 TOP OB	25.220.4053.0	296
8105 B / 3 C2 OB	15.002.0353.0	382	8105 F / 5 W C1 OB NT	15.311.0558.9	383	8113 B / 10 VL	25.326.1053.0	289
8105 B / 3 C2 VL OB GR	15.012.0353.0	383	8105 F / 5 W C2 OB NT	15.312.0558.9	383	8113 B / 10 VL OB	25.326.4053.0	289
8105 B / 3 C2 VR OB GR	15.022.0353.0	382	8105 F / 6 G C1 OB NT	15.301.0658.9	383	8113 B / 10 VR	25.325.1053.0	289
8105 B / 3 C3 OB	15.003.0353.0	382	8105 F / 6 G C2 OB NT	15.302.0658.9	383	8113 B / 10 VR OB	25.325.4053.0	289
8105 B / 3 C3 VL OB	15.013.0353.0	383	8105 F / 6 W C1 0B NT	15.311.0658.9	383	8113 B / 11	25.320.1153.0	286
8105 B / 3 C3 VR OB GR	15.023.0353.0	382	8105 F / 6 W C2 0B NT	15.312.0658.9	383	8113 B / 11 F	25.322.1153.0	286
8105 B / 3 C4 OB	15.004.0353.0	382	8105 F / 7 G C1 OB NT	15.301.0758.9	383	8113 B / 11 F OB	25.322.4153.0	286
8105 B / 3 C4 VL OB	15.014.0353.0	383	8105 F / 7 G C2 OB NT	15.302.0758.9	383	8113 B / 11 OB	25.320.4153.0	286
8105 B / 3 C4 VR OB GR	15.024.0353.0	382	8105 F / 7 W C1 OB NT	15.311.0758.9	383	8113 B / 11 TOP	25.220.1153.0	296
8105 B / 3 C5 OB	15.005.0353.0	382	8105 F / 7 W C2 OB NT	15.312.0758.9	383	8113 B / 11 TOP LED OB	25.230.4153.0	296
8105 B / 3 C5 VL OB	15.015.0353.0	383	8105 F / Z W C7 0B NT	15.317.0258.9	383	8113 B / 11 TOP OB	25.220.4153.0	296
8105 B / 3 C5 VR OB GR	15.025.0353.0	382	8113 / 16 WF 0B	25.339.4653.0	299	8113 B / 11 VL	25.326.1153.0	289
8105 B / 3 C6 OB 8105 B / 3 C6 OB GR	15.016.0353.0 15.006.0353.0	383	8113 B / 2 8113 B / 2 F	25.320.0253.0 25.322.0253.0	286 286	8113 B / 11 VL OB 8113 B / 11 VR	25.326.4153.0 25.325.1153.0	289
8105 B / 3 C6 VR OB	15.026.0353.0	382	8113 B / 2 F OB	25.322.3253.0 25.320.3253.0	286	8113 B / 11 VR OB	25.325.4153.0	289
8105 B / 3 C7 OB	15.007.0353.0	382	8113 B / 2 OB	25.220.0253.0	286	8113 B / 12	25.320.1253.0	286
8105 B / 3 C7 VL OB	15.017.0353.0	383	8113 B / 2 TOP		296	8113 B / 12 F	25.322.1253.0	286
8105 B / 3 C7 VR OB	15.027.0353.0	382	8113 B / 2 TOP LED OB	25.230.3253.0	296	8113 B / 12 F OB	25.322.4253.0	286
8105 B / 4 C0 OB	15.000.0453.0	382	8113 B / 2 TOP OB	25.220.3253.0	296	8113 B / 12 OB	25.320.4253.0	286
8105 B / 4 CO VL OB	15.010.0453.0	383	8113 B / 2 VL	25.326.0253.0	289	8113 B / 12 TOP	25.220.1253.0	296
8105 B / 4 CO VR OB	15.020.0453.0	382	8113 B / 2 VL OB	25.326.3253.0	289	8113 B / 12 TOP LED OB	25.230.4253.0	296
8105 B / 4 C1 OB 8105 B / 4 C1 VL OB	15.001.0453.0 15.011.0453.0	382 383	8113 B / 2 VL OB 8113 B / 2 VR 8113 B / 2 VR OB	25.325.0253.0 25.325.3253.0	289 289	8113 B / 12 TOP OB 8113 B / 12 VL	25.220.4253.0 25.326.1253.0	296 289
8105 B / 4 C1 VR OB GR	15.021.0453.0	382	8113 B / 3 8113 B / 3 F	25.320.0353.0	286	8113 B / 12 VL OB 8113 B / 12 VR	25.326.4253.0	289
8105 B / 4 C2 OB 8105 B / 4 C2 VL OB	15.002.0453.0 15.012.0453.0	382 383	8113 B / 3 F OB	25.322.0353.0 25.322.3353.0	286 286	8113 B / 12 VR OB	25.325.1253.0 25.325.4253.0	289 289
8105 B / 4 C2 VR OB	15.022.0453.0	382	8113 B / 3 OB	25.320.3353.0	286	8113 B / 13	25.320.1353.0	286
8105 B / 4 C3 OB	15.003.0453.0	382	8113 B / 3 TOP	25.220.0353.0	296	8113 B / 13 F	25.322.1353.0	286
8105 B / 4 C3 VL OB	15.013.0453.0	383	8113 B / 3 TOP LED OB	25.230.3353.0	296	8113 B / 13 F OB	25.322.4353.0	286
8105 B / 4 C3 VR OB	15.023.0453.0	382	8113 B / 3 TOP OB	25.220.3353.0	296	8113 B / 13 OB	25.320.4353.0	286
8105 B / 4 C4 OB	15.004.0453.0	382	8113 B / 3 VL	25.326.0353.0	289	8113 B / 13 TOP	25.220.1353.0	296
8105 B / 4 C4 VL OB	15.014.0453.0	383	8113 B / 3 VL 0B	25.326.3353.0	289	8113 B / 13 TOP OB	25.220.4353.0	296
8105 B / 4 C4 VR OB GR	15.024.0453.0	382	8113 B / 3 VR	25.325.0353.0	289	8113 B / 13 VL	25.326.1353.0	289
8105 B / 4 C5 OB	15.005.0453.0	382	8113 B / 3 VR OB	25.325.3353.0	289	8113 B / 13 VL OB	25.326.4353.0	289
8105 B / 4 C5 VL OB	15.015.0453.0	383	8113 B / 4	25.320.0453.0	286	8113 B / 13 VR	25.325.1353.0	289
8105 B / 4 C5 VR OB GR	15.025.0453.0	382	8113 B / 4 F	25.322.0453.0	286	8113 B / 13 VR OB	25.325.4353.0	289
8105 B / 4 C6 OB	15.006.0453.0	382	8113 B / 4 F OB	25.322.3453.0	286	8113 B / 14	25.320.1453.0	286
8105 B / 4 C6 VL OB	15.016.0453.0	383	8113 B / 4 OB	25.320.3453.0	286	8113 B / 14 F	25.322.1453.0	286
8105 B / 4 C6 VR OB	15.026.0453.0	382	8113 B / 4 TOP	25.220.0453.0	296	8113 B / 14 F OB	25.322.4453.0	286
8105 B / 5 CO OB 8105 B / 5 CO VL OB	15.000.0553.0 15.010.0553.0	382	8113 B / 4 TOP LED OB 8113 B / 4 TOP OB	25.230.3453.0 25.220.3453.0	296	8113 B / 14 OB 8113 B / 14 TOP	25.320.4453.0	286
8105 B / 5 CO VR OB	15.020.0553.0	382	8113 B / 4 VL	25.326.0453.0	289	8113 B / 14 TOP OB	25.220.1453.0 25.220.4453.0	296 296
8105 B / 5 C1 OB	15.001.0553.0	382	8113 B / 4 VL OB	25.326.3453.0	289	8113 B / 14 VL	25.326.1453.0	289
8105 B / 5 C1 VL OB	15.011.0553.0	383	8113 B / 4 VR	25.325.0453.0	289	8113 B / 14 VL OB	25.326.4453.0	289
8105 B / 5 C1 VR OB	15.021.0553.0	382	8113 B / 4 VR OB	25.325.3453.0	289	8113 B / 14 VR	25.325.1453.0	289
8105 B / 5 C2 OB	15.002.0553.0	382	8113 B / 5	25.320.0553.0	286	8113 B / 14 VR OB	25.325.4453.0	289
8105 B / 5 C2 VL OB	15.012.0553.0	383	8113 B / 5 F	25.322.0553.0	286	8113 B / 15	25.320.1553.0	286
8105 B / 5 C2 VR OB	15.022.0553.0	382	8113 B / 5 F OB	25.322.3553.0	286	8113 B / 15 F	25.322.1553.0	286
8105 B / 6 CO OB	15.000.0653.0	382	8113 B / 5 OB	25.320.3553.0	286	8113 B / 15 F OB	25.322.4553.0	286
8105 B / 6 CO OB	15.001.0653.0	382	8113 B / 5 TOP	25.220.0553.0	296	8113 B / 15 OB	25.320.4553.0	286
8105 B / 6 CO VL OB	15.010.0653.0	383	8113 B / 5 TOP LED OB	25.230.3553.0	296	8113 B / 15 TOP	25.220.1553.0	296
8105 B / 6 CO VR OB	15.020.0653.0	382	8113 B / 5 TOP OB	25.220.3553.0	296	8113 B / 15 TOP LED OB	25.230.4553.0	296

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Type	Part no.	section / page	Туре	Part no.	section / page	Type	Part no.	section / page
8113 B / 15 TOP OB	25.220.4553.0	296	8113 BK / 16 OB	01.060.4653.0	291	8113 S / 15 G OB GR OF	99.215.9996.0	297
8113 B / 15 VL	25.326.1553.0	289	8113 BSK /2 0,75 OB	25.399.9853.0	392	8113 S / 15 GF OB	25.338.4553.0	298
8113 B / 15 VL OB	25.326.4553.0	289	8113 S / 14 GOF OB	99.214.9996.0	297	8113 S / 15 S OB GR	25.394.4553.0	302
8113 B / 15 VR	25.325.1553.0	289	8113 S / 2 G OB	25.330.3253.0	297	8113 S / 15 S1 OB	25.395.4553.0	302
8113 B / 15 VR OB	25.325.4553.0	289	8113 S / 2 G OB GR OF	99.202.9996.0	297	8113 S / 15 W OB	25.332.4553.0	298
8113 B / 16	25.320.1653.0	286	8113 S / 2 GF OB	25.338.3253.0	298	8113 S / 15 W OB GR OF	99.275.9996.0	299
8113 B / 16 F	25.322.1653.0	286	8113 S / 2 S OB GR	25.394.3253.0	302	8113 S / 15 WF OB	25.339.4553.0	299
8113 B / 16 F OB	25.322.4653.0	286	8113 S / 2 S1 OB GR	25.395.3253.0	302	8113 S / 16 G OB	25.330.4653.0	297
8113 B / 16 OB	25.320.4653.0	286	8113 S / 2 W OB	25.332.3253.0	298	8113 S / 16 G OB GR OF	99.216.9996.0	297
8113 B / 16 TOP	25.220.1653.0	296	8113 S / 2 W OB GR OF	99.262.9996.0	299	8113 S / 16 GF OB	25.338.4653.0	298
8113 B / 16 TOP LED OB	25.230.4653.0	296	8113 S / 2 WF OB	25.339.3253.0	299	8113 S / 16 S OB GR	25.394.4653.0	302
8113 B / 16 TOP OB 8113 B / 16 VL	25.230.4653.0 25.220.4653.0 25.326.1653.0	296 296 289	8113 S / 3 G OB 8113 S / 3 G OB GR OF	25.339.3253.0 25.330.3353.0 99.203.9996.0	299 297 297	8113 S / 16 S1 OB 8113 S / 16 W OB	25.395.4653.0 25.332.4653.0	302 302 298
8113 B / 16 VL OB 8113 B / 16 VR	25.326.4653.0 25.325.1653.0	289 289 289	8113 S / 3 GF OB 8113 S / 3 S OB GR	25.338.3353.0 25.394.3353.0	298 302	8113 S / 16 W OB GR OF 8113 S E / 2 G OB	99.276.9996.0 25.334.3253.0	299 303
8113 B / 16 VR 0B	25.325.4653.0	289	8113 S / 3 S1 OB	25.395.3353.0	302	8113 S E / 2 W OB	25.336.3253.0	303
8113 B / 2 SK0.75 0B	25.399.9853.8	392	8113 S / 3 W OB	25.332.3353.0	298	8113 S E / 3 G OB	25.334.3353.0	
8113 B / 2 SKO.75 OB	25.399.9853.5	392	8113 S / 3 W OB GR OF	99.263.9996.0	299	8113 S E / 3 W OB	25.336.3353.0	303
8113 BFK / 2 TOP K	25.820.0253.0	37	8113 S / 3 WF OB	25.339.3353.0	299	8113 SEG/ 5/10 G OB	27.334.0553.0	304
8113 BFK / 2 TOP K	25.820.0253.0	292	8113 S / 4 G OB	25.330.3453.0	297	8113 SEG/ 5/10 W OB	27.336.0553.0	304
8113 BFK / 2 TOP K OB	25.820.3253.0	292	8113 S / 4 G OB GR OF	99.204.9996.0	297	8113 SEG/10/20 G OB	27.334.1053.0	304
8113 BFK / 2 TOP K OB 8113 BFK / 3 TOP K	25.820.3253.0 25.820.0353.0	37 292 37	8113 S / 4 GF OB 8113 S / 4 S OB GR	25.338.3453.0 25.394.3453.0	298 302	8113 SEG/10/20 W OB 81195 V/ 3/12 OB	27.336.1053.0 25.154.2353.0	304 373
8113 BFK / 3 TOP K OB	25.820.3353.0	292	8113 S / 4 S1 OB	25.395.3453.0	302	8130 / 3 BZ	04.033.0180.0	260
8113 BFK / 3 TOP K OB	25.820.3353.0		8113 S / 4 W OB	25.332.3453.0	298	8130 / 4 BZ	04.033.0280.0	260
8113 BFK / 4 TOP K	25.820.0453.0	292	8113 S / 4 W OB GR OF	99.264.9996.0	299	8130 / 5 BZ	04.033.0380.0	260
8113 BFK / 4 TOP K	25.820.0453.0		8113 S / 4 WF OB	25.339.3453.0	299	8130 / 6 BZ	04.033.0480.0	260
8113 BFK / 4 TOP K OB	25.820.3453.0	292	8113 S / 5 G OB	25.330.3553.0	297	8130 / 12 BZ	04.033.1080.0	260
8113 BFK / 4 TOP K OB	25.820.3453.0		8113 S / 5 G OB GR OF	99.205.9996.0	297	8130 M BZ	04.033.1180.0	260
8113 BFK / 4 TOP K F OB 8113 BFK / 5 TOP K 8113 BFK / 5 TOP K	25.821.3453.0 25.820.0553.0 25.820.0553.0	292 37 292	8113 S / 5 GF OB 8113 S / 5 S OB GR 8113 S / 5 S1 OB	25.338.3553.0 25.394.3553.0	298 302 302	8134 / 2 8134 / 2 OB 8134 / 2 ZN	25.500.0253.0 25.501.0253.0	360 360 360
8113 BFK / 5 TOP K OB 8113 BFK / 5 TOP K OB	25.820.3553.0 25.820.3553.0 25.820.3553.0	292 292 37	8113 S / 5 W OB 8113 S / 5 W OB GR OF	25.395.3553.0 25.332.3553.0 99.265.9996.0	298 299	8134 / 2 ZN OB 8134 / 3	25.500.6253.0 25.501.6253.0 25.500.0353.0	360 360 360
8113 BFK / 6 TOP K 8113 BFK / 6 TOP K	25.820.0653.0 25.820.0653.0	292 37	8113 S / 5 WF OB 8113 S / 6 G OB	25.339.3553.0 25.330.3653.0	299 299 297	8134 / 3 OB 8134 / 3 ZN	25.500.0353.0 25.501.0353.0 25.500.6353.0	360 360
8113 BFK / 6 TOP K OB 8113 BFK / 6 TOP K OB	25.820.3653.0 25.820.3653.0	292 37	8113 S / 6 G OB GR OF 8113 S / 6 GF OB	99.206.9996.0 25.338.3653.0	297 297 298	8134 / 3 ZN OB 8134 / 4	25.501.6353.0 25.500.0453.0	360 360
8113 BFK / 7 TOP K 8113 BFK / 7 TOP K	25.820.0753.0 25.820.0753.0	37	8113 S / 6 S OB GR	25.394.3653.0 25.395.3653.0	302 302	8134 / 4 OB 8134 / 5	25.501.0453.0 25.500.0553.0	360 360
8113 BFK / 7 TOP K OB 8113 BFK / 7 TOP K OB	25.820.3753.0 25.820.3753.0	292 37 292	8113 S / 6 S1 OB 8113 S / 6 W OB 8113 S / 6 W OB GR OF	25.332.3653.0 99.266.9996.0	298 299	8134 / 5 OB 8134 / 6	25.501.0553.0 25.500.0653.0	360 360
8113 BFK / 8 TOP K	25.820.0853.0	292	8113 S / 6 WF OB	25.339.3653.0	299	8134 / 6 OB	25.501.0653.0	360
8113 BFK / 8 TOP K	25.820.0853.0	37	8113 S / 7 G OB	25.330.3753.0	297	8134 / 7	25.500.0753.0	360
8113 BFK / 8 TOP K OB	25.820.3853.0	292	8113 S / 7 G OB GR OF	99.207.9996.0	297	8134 / 7 OB	25.501.0753.0	360
8113 BFK / 8 TOP K OB	25.820.3853.0	37	8113 S / 7 GF OB	25.338.3753.0	298	8134 / 8	25.500.0853.0	360
8113 BFK / 9 TOP K	25.820.0953.0	37	8113 S / 7 S OB GR	25.394.3753.0	302	8134 / 8 OB	25.501.0853.0	360
8113 BFK / 9 TOP K	25.820.0953.0	292	8113 S / 7 S1 OB	25.395.3753.0	302	8134 / 9	25.500.0953.0	360
8113 BFK / 9 TOP K OB	25.820.3953.0	292	8113 S / 7 W OB	25.332.3753.0	298	8134 / 9 OB	25.501.0953.0	360
8113 BFK / 9 TOP K OB	25.820.3953.0	37	8113 S / 7 W OB GR OF	99.267.9996.0	299	8134 / 10	25.500.1053.0	360
8113 BFK /10 TOP K	25.820.1053.0	292	8113 S / 7 WF OB	25.339.3753.0	299	8134 / 10 OB	25.501.1053.0	360
8113 BFK /10 TOP K	25.820.1053.0	37	8113 S / 8 G OB	25.330.3853.0	297	8134 / 11	25.500.1153.0	360
8113 BFK /10 TOP K OB	25.820.4053.0	292	8113 S / 8 G OB GR OF	99.208.9996.0	297	8134 / 11 OB	25.501.1153.0	360
8113 BFK /10 TOP K OB 8113 BFK /11 TOP K	25.820.4053.0 25.820.1153.0	292 37 37	8113 S / 8 GF OB 8113 S / 8 S OB GR	25.338.3853.0 25.394.3853.0	297 298 302	8134 / 12 8134 / 12 8134 / 12 OB	25.500.1253.0 25.501.1253.0 25.501.1253.0	360 360
8113 BFK /11 TOP K	25.820.1153.0	292	8113 S / 8 S1 OB	25.395.3853.0	302	8134 / 13	25.500.1353.0	360
8113 BFK /11 TOP K OB	25.820.4153.0	292	8113 S / 8 W OB	25.332.3853.0	298	8134 / 13 OB	25.501.1353.0	360
8113 BFK /11 TOP K OB	25.820.4153.0	37	8113 S / 8 W OB GR OF	99.268.9996.0	299	8134 / 14 OB	25.501.1453.0	360
8113 BFK /12 TOP K	25.820.1253.0	37	8113 S / 8 WF OB	25.339.3853.0	299	8134 / 15	25.500.1553.0	360
8113 BFK /12 TOP K	25.820.1253.0	292	8113 S / 9 G OB	25.330.3953.0	297	8134 / 15 OB	25.501.1553.0	360
8113 BFK /12 TOP K OB	25.820.4253.0	292	8113 S / 9 G OB GR OF	99.209.9996.0	297	8134 / 16	25.500.1653.0	360
8113 BFK /12 TOP K OB	25.820.4253.0	37	8113 S / 9 GF OB	25.338.3953.0	298	8134 / 16 OB	25.501.1653.0	360
8113 BFK /13 TOP K	25.820.1353.0	37	8113 S / 9 S OB GR	25.394.3953.0	302	8135 / 2	25.520.0253.0	362
8113 BFK /13 TOP K	25.820.1353.0	292	8113 S / 9 S1 OB	25.395.3953.0	302	8135 / 2 OB	25.521.0253.0	362
8113 BFK /13 TOP K OB	25.820.4353.0	37	8113 S / 9 W OB	25.332.3953.0	298	8135 / 2 ZN	25.520.6253.0	362
8113 BFK /13 TOP K OB	25.820.4353.0	292	8113 S / 9 W OB GR OF	99.269.9996.0	299	8135 / 2 ZN OB	25.521.6253.0	362
8113 BFK /14 TOP K	25.820.1453.0	292	8113 S / 9 WF OB	25.339.3953.0	299	8135 / 3	25.520.0353.0	362
8113 BFK /14 TOP K 8113 BFK /14 TOP K OB	25.820.1453.0 25.820.4453.0	37 292 37	8113 S / 10 G OB 8113 S / 10 G OB GR OF	25.330.4053.0 99.210.9996.0 25.338.4053.0	297 297 298	8135 / 3 OB 8135 / 3 ZN	25.521.0353.0 25.520.6353.0	362 362 362
8113 BFK /14 TOP K OB 8113 BFK /15 TOP K 8113 BFK /15 TOP K	25.820.4453.0 25.820.1553.0 25.820.1553.0	37 37 292	8113 S / 10 GF 0B 8113 S / 10 S	25.394.4053.0 25.395.4053.0	298 302 302	8135 / 3 ZN OB 8135 / 4 8135 / 4 OB	25.521.6353.0 25.520.0453.0 25.521.0453.0	362 362 362
8113 BFK /15 TOP K 8113 BFK /15 TOP K OB 8113 BFK /15 TOP K OB	25.820.4553.0 25.820.4553.0	292 292 37	8113 S / 10 W OB 8113 S / 10 W OB GR OF	25.332.4053.0 99.270.9996.0	298 299	8135 / 5 8135 / 5 8135 / 5 OB	25.521.0453.0 25.520.0553.0 25.521.0553.0	362 362
8113 BFK /16 TOP K	25.820.1653.0	292	8113 S / 10 WF OB	25.339.4053.0	299	8135 / 6	25.520.0653.0	362
8113 BFK /16 TOP K	25.820.1653.0	37	8113 S / 11 G OB	25.330.4153.0	297	8135 / 6 OB	25.521.0653.0	362
8113 BFK /16 TOP K OB	25.820.4653.0	292	8113 S / 11 G OB GR OF	99.211.9996.0	297	8135 / 7	25.520.0753.0	362
8113 BFK /16 TOP K OB	25.820.4653.0	37	8113 S / 11 GF OB	25.338.4153.0	298	8135 / 7 OB	25.521.0753.0	362
8113 BK / 2	01.060.0253.0	291	8113 S / 11 S OB GR	25.394.4153.0	302	8135 / 8	25.520.0853.0	362
8113 BK / 2 OB	01.060.3253.0	291	8113 S / 11 S1 OB	25.395.4153.0	302	8135 / 8 OB	25.521.0853.0	362
8113 BK / 3	01.060.0353.0	291	8113 S / 11 W OB	25.332.4153.0	298	8135 / 9	25.520.0953.0	362
8113 BK / 3 OB	01.060.3353.0	291	8113 S / 11 W OB GR OF	99.271.9996.0	299	8135 / 9 OB	25.521.0953.0	362
8113 BK / 4	01.060.0453.0	291	8113 S / 11 WF OB	25.339.4153.0	299	8135 / 10	25.520.1053.0	362
8113 BK / 4 OB	01.060.3453.0	291	8113 S / 12 G OB	25.330.4253.0	297	8135 / 10 OB	25.521.1053.0	362
8113 BK / 5 8113 BK / 5 OB 8113 BK / 6	01.060.0553.0 01.060.3553.0 01.060.0653.0	291 291 291	8113 S / 12 G OB GR OF 8113 S / 12 G OB GR OF 8113 S / 12 S OB GR 8113 S / 12 S OB GR 8113 S / 12 S1 OB GR	99.212.9996.0 25.338.4253.0	297 298 302	8135 / 11 8135 / 11 OB	25.520.1153.0 25.521.1153.0	362 362 362
8113 BK / 6 OB 8113 BK / 7	01.060.0653.0 01.060.0753.0	291 291 291	8113 S / 12 S1 OB GR 8113 S / 12 S1 OB GR 8113 S / 12 W OB	25.394.4253.0 25.395.4253.0 25.332.4253.0	302 302 298	8135 / 12 8135 / 12 OB 8135 / 13	25.520.1253.0 25.521.1253.0 25.520.1353.0	362 362 362
8113 BK / 7 OB 8113 BK / 8	01.060.3753.0 01.060.0853.0	291 291 291	8113 S / 12 W OB GR OF 8113 S / 12 WF OB	99.272.9996.0 25.339.4253.0	299 299 299	8135 / 13 OB 8135 / 14	25.521.1353.0 25.520.1453.0	362 362
8113 BK / 8 OB	01.060.3853.0	291	8113 S / 13 G OB	25.330.4353.0	297	8135 / 14 OB	25.521.1453.0	362
8113 BK / 9	01.060.0953.0	291	8113 S / 13 G OB GR OF	99.213.9996.0	297	8135 / 15	25.520.1553.0	362
8113 BK / 9 OB	01.060.3953.0	291	8113 S / 13 GF OB	25.338.4353.0	298	8135 / 15 OB	25.521.1553.0	362
8113 BK / 10	01.060.1053.0	291	8113 S / 13 S OB GR	25.394.4353.0	302	8135 / 16	25.520.1653.0	362
8113 BK / 10 OB	01.060.4053.0	291	8113 S / 13 S1 OB	25.395.4353.0	302	8135 / 16 OB	25.521.1653.0	362
8113 BK / 11	01.060.1153.0	291	8113 S / 13 W OB	25.332.4353.0	298	8142 / 9	25.600.2953.0	318
8113 BK / 11 OB	01.060.4153.0	291	8113 S / 13 W OB GR OF	99.273.9996.0	299	8142 / 2	25.600.2253.0	318
8113 BK / 12	01.060.1253.0	291	8113 S / 13 WF OB	25.339.4353.0	299	8142 / 2 OB	25.602.2253.0	318
8113 BK / 12 OB 8113 BK / 13	01.060.4253.0 01.060.1353.0	291 291	8113 S / 14 G OB 8113 S / 14 G OB 8113 S / 14 GF OB 8113 S / 14 S OB GR 8113 S / 14 S1 OB	25.330.4453.0 25.338.4453.0	297 298	8142 / 3 8142 / 3 OB	25.600.2353.0 25.602.2353.0	318 318
8113 BK / 13 OB 8113 BK / 14	01.060.4353.0 01.060.1453.0	291 291 291	8113 S / 14 S UB GR 8113 S / 14 S1 OB	25.394.4453.0 25.395.4453.0	302 302	8142 / 4 8142 / 4 OB	25.600.2453.0 25.602.2453.0 25.601.1253.0	318 318
8113 BK / 14 OB	01.060.4453.0	291	8113 S / 14 W 0B	25.332.4453.0	298	8142 / 4 / 2	25.601.1253.0	318
8113 BK / 15	01.060.1553.0	291	8113 S / 14 W 0B GR 0F	99.274.9996.0	299	8142 / 4 / 2 OB	25.603.1253.0	318
8113 BK / 15 OB	01.060.4553.0	291	8113 S / 14 WF 0B	25.339.4453.0	299	8142 / 5	25.600.2553.0	318
8113 BK / 16	01.060.1653.0	291	8113 S / 15 G OB	25.330.4553.0	297	8142 / 5 OB	25.602.2553.0	318
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8142 / 6 OB	25.602.2653.0	318	8190 / 5 OB	25.131.0553.0	358	8191 / 6 ZW	25.160.6653.0	345
8142 / 6 / 3	25.601.1353.0	318	8190 / 6	25.130.0653.0	358	8191 / 6 ZW OB	25.161.6653.0	345
8142 / 6 / 3 OB	25.603.1353.0	318	8190 / 6 / 3	25.132.0353.0	358	8191 / 7	25.160.0753.0	344
8142 / 7	25.600.2753.0	318	8190 / 6 / 3 OB	25.133.0353.0	358	8191 / 7 OB	25.161.0753.0	344
8142 / 7 OB	25.602.2753.0	318	8190 / 6 OB	25.131.0653.0	■ 358	8191 / 7 ZW	25.160.6753.0	345
8142 / 8	25.600.2853.0	318	8190 / 7	25.130.0753.0	■ 358	8191 / 7 ZW OB	25.161.6753.0	345
8142 / 8 OB	25.602.2853.0	318	8190 / 7 OB	25.131.0753.0	358	8191 / 8	25.160.0853.0	344
8142 / 8 / 4	25.601.1453.0	318	8190 / 8	25.130.0853.0	358	8191 / 8 OB	25.161.0853.0	344
8142 / 8 / 4 OB	25.603.1453.0	318	8190 / 8 / 4	25.132.0453.0	358	8191 / 8 ZW	25.160.6853.0	345
8142 / 9 OB	25.602.2953.0	318	8190 / 8 / 4 OB	25.133.0453.0	358	8191 / 8 ZW OB	25.161.6853.0	345
8142 / 10	25.600.3053.0	318	8190 / 8 OB	25.131.0853.0	358	8191 / 9	25.160.0953.0	344
8142 / 10 OB	25.602.3053.0	318	8190 / 9	25.131.0953.0	358	8191 / 9 OB	25.161.0953.0	344
8142 / 10 / 5	25.601.1553.0	318	8190 / 9 OB	25.131.0953.0	358	8191 / 9 ZW	25.160.6953.0	345
8142 / 10 / 5 OB	25.603.1553.0	318	8190 / 10	25.130.1053.0	358	8191 / 9 ZW 0B	25.161.6953.0	345
8142 / 11	25.600.3153.0	318	8190 / 10 / 5	25.132.0553.0	358	8191 / 10	25.160.1053.0	344
8142 / 11 OB	25.602.3153.0	318	8190 / 10 / 5 OB	25.133.0553.0	358	8191 / 10 OB	25.161.1053.0	344
8142 / 12	25.600.3253.0	318	8190 / 10 OB	25.131.1053.0	358	8191 / 10 ZW	25.160.7053.0	345
8142 / 12 OB	25.602.3253.0	318	8190 / 11	25.130.1153.0	358	8191 / 10 ZW OB	25.161.7053.0	345
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8142 / 13	25.600.3353.0	318	8190 / 12 / 6	25.132.0653.0	358	8191 / 11 ZW	25.160.7153.0	345
8142 / 13 OB	25.602.3353.0	318	8190 / 12 / 6 OB	25.133.0653.0	358	8191 / 11 ZW OB	25.161.7153.0	345
8142 / 14	25.600.3453.0	318	8190 / 12 OB	25.131.1253.0	358	8191 / 12	25.160.1253.0	344
8142 / 14 OB	25.602.3453.0	318	8190 / 13	25.130.1353.0	358	8191 / 12 OB	25.161.1253.0	344
8142 / 14 / 7	25.601.1753.0	318	8190 / 13 OB	25.131.1353.0	358	8191 / 12 ZW	25.160.7253.0	345
8142 / 14 / 7 OB	25.603.1753.0	318	8190 / 14	25.130.1453.0	358	8191 / 12 ZW OB	25.161.7253.0	345
8142 / 15	25.600.3553.0	318	8190 / 14 / 7	25.132.0753.0	358	8191 / 13	25.160.1353.0	344
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8142 / 16 / 8	25.601.1853.0	318	8190 / 15 OB	25.131.1553.0	358	8191 / 14	25.160.1453.0	344
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8152 / 5 TOP V OB	27.720.0553.0	348	8190 / 16 / 8 OB	25.133.0853.0	358	8191 / 14 ZW OB	25.161.7453.0	345
8152 / 10 TOP H OB	27.730.1053.0	348	8190 / 16 OB	25.131.1653.0	358	8191 / 15	25.160.1553.0	344
8152 / 10 TOP V OB	27.720.1053.0	348	8190 / 18 / 9	25.132.0953.0	358	8191 / 15 OB	25.161.1553.0	344
8158 / 2 TOP H OB	25.790.0253.0	353	8190 / 18 / 9 OB	25.133.0953.0	358	8191 / 15 ZW	25.160.7553.0	345
8158 / 2 TOP V OB	25.780.0253.0	353	8190 / 20 / 10	25.132.1053.0	358	8191 / 15 ZW OB	25.161.7553.0	345
8158 / 3 TOP H OB	25.790.0353.0	353	8190 / 20 / 10 OB	25.133.1053.0	358	8191 / 16	25.160.1653.0	344
8158 / 3 TOP V OB	25.780.0353.0	353	8190 / 22 / 11	25.132.1153.0	358	8191 / 16 OB	25.161.1653.0	344
8158 / 4 TOP H OB 8158 / 4 TOP V OB	25.790.0453.0 25.780.0453.0	353 353	8190 / 22 / 11 OB 8190 / 24 / 12	25.133.1153.0 25.132.1253.0	358 358	8191 / 16 ZW 8191 / 16 ZW OB	25.160.7653.0 25.161.7653.0	345 345 370
8158 / 5 TOP H OB	25.790.0553.0	353	8190 / 24 / 12 OB	25.133.1253.0	358	8191 D / 2 / 6	25.180.0253.0	370
8158 / 5 TOP V OB	25.780.0553.0	353	8190 E / 2 / 4	25.130.3253.0	368	8191 D / 2 / 6 OB	25.180.5253.0	370
8158 / 6 TOP H OB	25.790.0653.0	353	8190 E / 2 / 4 OB	25.131.3253.0	368	8191 D / 2 / 6 ZN	25.180.4253.0	370
8158 / 6 TOP V OB	25.780.0653.0	353	8190 E / 3 / 6	25.130.3353.0	368	8191 D / 2 / 6 ZN OB	25.180.9253.0	370
8158 / 7 TOP H OB	25.790.0753.0	353	8190 E / 3 / 6 OB	25.131.3353.0	368	8191 D / 3 / 9	25.180.0353.0	370
8158 / 7 TOP V OB	25.780.0753.0	353	8190 E / 4 / 8	25.130.3453.0	368	8191 D / 3 / 9 OB	25.180.5353.0	370
8158 / 8 TOP H OB	25.790.0853.0	353	8190 E / 4 / 8 0B	25.131.3453.0	368	8191 D / 3 / 9 ZN	25.180.4353.0	370
8158 / 8 TOP V OB	25.780.0853.0	353	8190 E / 5 / 10	25.130.3553.0	368	8191 D / 3 / 9 ZN OB	25.180.9353.0	370
8158 / 9 TOP H OB	25.790.0953.0	353	8190 E / 5 / 10 OB	25.131.3553.0	368	8191 D / 4 / 12	25.180.0453.0	370
8158 / 9 TOP V OB	25.780.0953.0	353	8190 E / 6 / 12	25.130.3653.0	368	8191 D / 4 / 12 OB	25.180.5453.0	370
8158 / 10 TOP H OB 8158 / 10 TOP V OB	25.790.1053.0 25.780.1053.0	353 353	8190 E / 6 / 12 OB 8190 E / 7 / 14	25.131.3653.0 25.130.3753.0	368 368	8191 D / 5 / 15 8191 D / 5 / 15 OB	25.180.0553.0 25.180.5553.0	370 370 370
8158 / 11 TOP H OB	25.790.1153.0	353	8190 E / 7 / 14 0B	25.131.3753.0	368	8191 D / 6 / 18	25.180.0653.0	370
8158 / 11 TOP V OB	25.780.1153.0	353	8190 E / 8 / 16	25.130.3853.0	368	8191 D / 6 / 18 OB	25.180.5653.0	370
8158 / 12 TOP H OB 8158 / 12 TOP V OB	25.790.1253.0 25.780.1253.0	353 353	8190 E / 8 / 16 0B 8190 E / 9 / 18 8190 E / 9 / 18 0B	25.131.3853.0 25.130.3953.0	368 368	8191 D / 7 / 21 8191 D / 7 / 21 OB	25.180.0753.0 25.180.5753.0	370 370 370
8158 / 13 TOP H OB 8158 / 13 TOP V OB 8158 / 14 TOP H OB	25.790.1353.0 25.780.1353.0 25.790.1453.0	353 353 353	8190 E / 10 / 20 8190 E / 10 / 20 OB	25.131.3953.0 25.130.4053.0 25.131.4053.0	368 368 368	8191 D / 8 / 24 8191 D / 8 / 24 OB 8191 D / 9 / 27 OB	25.180.0853.0 25.180.5853.0 25.180.5953.0	370 370 370
8158 / 14 TOP V OB	25.780.1453.0	353	8190 E / 11 / 22	25.130.4153.0	368	8191 D / 10 / 30	25.180.1053.0	370
8158 / 15 TOP H OB	25.790.1553.0	353	8190 E / 11 / 22 OB	25.131.4153.0	368	8191 D / 10 / 30 OB	25.180.6053.0	370
8158 / 15 TOP V OB	25.780.1553.0	353	8190 E / 12 / 24	25.130.4253.0	■ 368	8191 D / 11 / 33	25.180.1153.0	370
8158 / 16 TOP H OB	25.790.1653.0	353	8190 E / 12 / 24 OB	25.131.4253.0	■ 368	8191 D / 11 / 33 OB	25.180.6153.0	370
8158 / 16 TOP V OB	25.780.1653.0	353	8191 / 2	25.160.0253.0	344	8191 D / 12 / 36	25.180.1253.0	370
8185 TOP H	25.741.3953.0	350	8191 / 2 OB	25.161.0253.0	344	8191 D / 12 / 36 OB	25.180.6253.0	370
8185 TOP H	25.741.4153.0	350	8191 / 2 WVL OB	25.161.2853.0	594	8191 E / 2 / 4	25.178.0253.0	366
8185 TOP H 8185 TOP H	25.741.4353.0 25.741.4453.0 25.741.4453.0	350 350 350	8191 / 2 WVR OB 8191 / 2 ZN	25.161.2553.0 25.170.0253.0 25.170.0253.0	594 594 344	8191 E / 2 / 4 OB 8191 E / 2 / 4 ZN	25.178.5253.0 25.178.4253.0 25.178.4253.0	366 366
8185 TOP H	25.741.4553.0	350	8191 / 2 ZN OB	25.171.0253.0	344	8191 E / 2 / 4 ZN OB	25.178.9253.0	366
8185 TOP V	25.741.1353.0	349	8191 / 2 ZW	25.160.6253.0	345	8191 E / 3 / 6	25.178.0353.0	366
8185 TOP V 8185/ 1 TOP H	25.741.1553.0 25.741.0153.0	350	8191 / 2 ZW OB 8191 / 3	25.161.6253.0 25.160.0353.0	345 344	8191 E / 3 / 6 OB 8191 E / 3 / 6 ZN	25.178.5353.0 25.178.4353.0	366 366 366
8185/ 1 TOP V	25.741.0053.0	349	8191 / 3 OB	25.161.0353.0	344	8191 E / 3 / 6 ZN OB	25.178.9353.0	366
8185/ 2 TOP H	25.741.3253.0	350	8191 / 3 WVL OB	25.161.2953.0	594	8191 E / 4 / 8	25.178.0453.0	366
8185/ 2 TOP V	25.741.0253.0	349	8191 / 3 WVR OB	25.161.2653.0	594	8191 E / 4 / 8 OB	25.178.5453.0	366
8185/ 3 TOP H	25.741.3353.0	350	8191 / 3 ZN	25.170.0353.0	344	8191 E / 5 / 10	25.178.0553.0	366
8185/ 3 TOP V	25.741.0353.0	349	8191 / 3 ZN OB	25.171.0353.0	344	8191 E / 5 / 10 OB	25.178.5553.0	366
8185/ 4 TOP H	25.741.3453.0	350	8191 / 3 ZW	25.160.6353.0	345	8191 E / 6 / 12	25.178.0653.0	■ 366
8185/ 4 TOP V	25.741.0453.0	349	8191 / 3 ZW 0B	25.161.6353.0	345	8191 E / 6 / 12 OB	25.178.5653.0	■ 366
8185/ 5 TOP H	25.741.3553.0	350	8191 / 3/ 2	25.168.0253.0	344	8191 E / 7 / 14	25.178.0753.0	366
8185/ 5 TOP V	25.741.0553.0	349	8191 / 3/ 2 OB	25.169.0253.0	344	8191 E / 7 / 14 OB	25.178.5753.0	366
8185/ 6 TOP H	25.741.3653.0	350	8191 / 3/ 2 Z	25.168.2253.0	345	8191 E / 8 / 16	25.178.0853.0	366
8185/ 6 TOP V 8185/ 7 TOP H	25.741.3653.0 25.741.3653.0 25.741.3753.0	350 349 350	8191 / 3/ 2 Z OB 8191 / 3/ 2 ZN	25.169.2253.0 25.169.2253.0 25.168.6253.0	345 344	8191 E / 8 / 16 OB 8191 E / 9 / 18	25.178.0853.0 25.178.5853.0 25.178.0953.0	366 366
8185/ 7 TOP V	25.741.0753.0	349	8191 / 3/ 2 ZN OB	25.169.6253.0	344	8191 E / 9 / 18 OB	25.178.5953.0	366
8185/ 8 TOP H	25.741.3853.0	350	8191 / 3/ 2 ZW	25.168.4253.0	345	8191 E / 10 / 20	25.178.1053.0	366
8185/ 8 TOP V	25.741.0853.0	349	8191 / 3/ 2 ZW 0B	25.169.4253.0	345	8191 E / 10 / 20 OB	25.178.6053.0	366
8185/ 9 TOP V	25.741.0953.0	349	8191 / 4	25.160.0453.0	344	8191 E / 11 / 22	25.178.1153.0	366
8185/ 10 TOP H	25.741.4053.0	350	8191 / 4 OB	25.161.0453.0	344	8191 E / 11 / 22 OB	25.178.6153.0	366
8185/ 10 TOP V	25.741.1053.0	349	8191 / 4 ZW	25.160.6453.0	345	8191 E / 12 / 24	25.178.1253.0	366
8185/ 11 TOP V	25.741.1153.0	349	8191 / 4 ZW OB	25.161.6453.0	345	8191 E / 12 / 24 OB	25.178.6253.0	366
8185/ 12 TOP H 8185/ 12 TOP V	25.741.4253.0 25.741.1253.0	350 349	8191 / 5 8191 / 5 OB	25.160.0553.0 25.161.0553.0	344 344	8191 E / 12 / 24 OB 8191 R / 2 Z 8191 R / 2 Z OB	25.175.0253.0 25.155.2253.0 25.155.0253.0	366 342 342
8185/ 14 TOP V	25.741.1453.0	349	8191 / 5 ZW	25.160.6553.0	345	8191 R / 3 Z	25.155.2353.0	342
8185/ 16 TOP H	25.741.4653.0	350	8191 / 5 ZW OB	25.161.6553.0	345	8191 R / 3 Z OB	25.155.0353.0	342
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8190 / 2 OB	25.131.0253.0	358	8191 / 5/ 3 Z	25.168.2353.0	345	8191 R / 4 Z	25.155.2453.0	342
8190 / 3	25.130.0353.0	358	8191 / 5/ 3 Z OB	25.169.2353.0	345	8191 R / 4 Z OB	25.155.0453.0	342
8190 / 3 OB	25.131.0353.0	358	8191 / 5/ 3 ZN	25.168.6353.0	344	8191 R / 5 Z	25.155.2553.0	342
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8190 / 4 / 2 OB	25.133.0253.0	358	8191 / 5/ 3 ZW OB	25.169.4353.0	345	8191 R / 5/3 Z OB	25.157.0353.0	343
8190 / 4 OB	25.131.0453.0	358	8191 / 6	25.160.0653.0	344	8191 R / 6 Z	25.155.2653.0	342

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8191 R / 7/4 Z	25.157.1453.0	343	8195 D/ 4/12 VB1	25.153.4453.0	372	8213 B / 6 TOP OB	25.240.3653.0	296
8191 R / 7/4 Z OB	25.157.0453.0	343	8195 D/ 4/12 VB1 OB	25.153.6453.0	372	8213 B / 6 VL	25.346.0653.0	289
8191 R / 8 Z	25.155.2853.0	342	8195 D/ 5/15	25.153.0553.0	372	8213 B / 6 VL OB	25.346.3653.0	289
8191 R / 8 Z OB	25.155.0853.0	342	8195 D/ 5/15 OB	25.153.2553.0	372	8213 B / 6 VR	25.345.0653.0	289
8191 R / 9 Z	25.155.2953.0	342	8195 D/ 5/15 VB1	25.153.4553.0	372	8213 B / 6 VR OB	25.345.3653.0	289
8191 R / 9 Z OB	25.155.0953.0	342	8195 D/ 5/15 VB1 OB	25.153.6553.0	372	8213 B / 7	25.340.0753.0	286
8191 R / 9/5 Z	25.157.1553.0	343	8195 D/ 6/18	25.153.0653.0	372	8213 B / 7 F	25.323.0753.0	286
8191 R / 9/5 Z OB 8191 R / 10 Z	25.157.0553.0 25.155.3053.0	343 342 342	8195 D/ 6/18 OB 8195 D/ 6/18 VB1 8195 D/ 6/18 VB1 OB	25.153.2653.0 25.153.4653.0	372 372 372	8213 B / 7 F OB 8213 B / 7 OB	25.323.3753.0 25.340.3753.0	286 286
8191 R / 10 Z OB 8191 R / 11 Z 8191 R / 11 Z OB	25.155.1053.0 25.155.3153.0 25.155.1153.0	342 342 342	8195 D/ 7/21 8195 D/ 7/21 OB	25.153.6653.0 25.153.0753.0 25.153.2753.0	372 372 372	8213 B / 7 TOP 8213 B / 7 TOP OB 8213 B / 7 VL	25.240.0753.0 25.240.3753.0 25.346.0753.0	296 296 289
8191 R / 11/6 Z 8191 R / 11/6 Z OB	25.153.1153.0 25.157.1653.0 25.157.0653.0	343 343	8195 D/ 7/21 VB1 8195 D/ 7/21 VB1 OB	25.153.2753.0 25.153.4753.0 25.153.6753.0	372 372 372	8213 B / 7 VL OB 8213 B / 7 VR	25.346.3753.0 25.345.0753.0 25.345.0753.0	289 289 289
8191 R / 12 Z 8191 R / 12 Z 8191 R / 12 Z OB	25.157.0053.0 25.155.3253.0 25.155.1253.0	342 342	8195 D/ 8/24 8195 D/ 8/24 OB	25.153.0853.0 25.153.2853.0	372 372 372	8213 B / 7 VR OB 8213 B / 8	25.345.3753.0 25.340.0853.0	289 286
8191 R / 13 Z	25.155.3353.0	342	8195 D/ 8/24 VB1	25.153.4853.0	372	8213 B / 8 F	25.323.0853.0	286
8191 R / 13 Z OB	25.155.1353.0	342	8195 D/ 8/24 VB1 OB	25.153.6853.0	372	8213 B / 8 F OB	25.323.3853.0	286
8191 R / 13/ 7 Z	25.157.1753.0	343	8195 D/ 9/27	25.153.0953.0	372	8213 B / 8 OB	25.340.3853.0	286
8191 R / 13/ 7 Z OB	25.157.0753.0	343	8195 D/ 9/27 OB	25.153.2953.0	372	8213 B / 8 TOP	25.240.0853.0	296
8191 R / 14 Z	25.155.3453.0	342	8195 D/ 9/27 VB1	25.153.4953.0	372	8213 B / 8 TOP OB	25.240.3853.0	296
8191 R / 14 Z OB	25.155.1453.0	342	8195 D/ 9/27 VB1 OB	25.153.6953.0	372	8213 B / 8 VL	25.346.0853.0	289
8192 / 2	25.190.0253.0	338	8195 D/ 10/30	25.153.1053.0	372	8213 B / 8 VL OB	25.346.3853.0	289
8192 / 2 OB	25.191.0253.0	338	8195 D/ 10/30 OB	25.153.3053.0	372	8213 B / 8 VR	25.345.0853.0	289
8192 / 2 ZN	25.190.9253.0	338	8195 D/ 10/30 VB1	25.153.5053.0	■ 372	8213 B / 8 VR OB	25.345.3853.0	289
8192 / 2 ZN OB	25.191.9253.0	338	8195 D/ 10/30 VB1 OB	25.153.7053.0	■ 372	8213 B / 9	25.340.0953.0	286
8192 / 2 ZW OB	25.191.6253.0	339	8195 V/ 2/8	25.154.0253.0	373	8213 B / 9 F	25.323.0953.0	286
8192 / 3	25.190.0353.0	338	8195 V/ 2/8 OB	25.154.2253.0	373	8213 B / 9 F 0B	25.323.3953.0	286
8192 / 3 OB	25.191.0353.0	338	8195 V/ 2/8 VB1	25.154.4253.0	373	8213 B / 9 OB	25.340.3953.0	286
8192 / 3 ZN	25.190.9353.0	338	8195 V/ 2/8 VB1 OB	25.154.6253.0	373	8213 B / 9 TOP	25.240.0953.0	296
8192 / 3 ZN OB	25.191.9353.0	338	8195 v/ 3/12	25.154.0353.0	373	8213 B / 9 TOP OB	25.240.3953.0	296
8192 / 3 ZW OB	25.191.6353.0	339	8195 V/ 3/12 VB1	25.154.4353.0	373	8213 B / 9 VL	25.346.0953.0	289
8192 / 4	25.190.0453.0	338	8195 V/ 3/12 VB1 OB	25.154.6353.0	373	8213 B / 9 VL OB	25.346.3953.0	289
8192 / 4 OB	25.191.0453.0		8195 V/ 4/16	25.154.0453.0	373	8213 B / 9 VR	25.345.0953.0	289
8192 / 4 ZW OB	25.191.6453.0	339	8195 V/ 4/16 OB	25.154.2453.0	373	8213 B / 9 VR OB	25.345.3953.0	289
8192 / 5	25.190.0553.0	338	8195 V/ 4/16 VB1	25.154.4453.0	373	8213 B / 10	25.340.1053.0	286
8192 / 5 OB	25.191.0553.0	338	8195 V/ 4/16 VB1 OB	25.154.6453.0	373	8213 B / 10 F	25.323.1053.0	286
8192 / 5 ZW OB	25.191.6553.0	339	8195 V/ 5/20	25.154.0553.0	373	8213 B / 10 F 0B	25.323.4053.0	286
8192 / 6	25.190.0653.0	338	8195 V/ 5/20 OB	25.154.2553.0	373	8213 B / 10 0B	25.340.4053.0	286
8192 / 6 OB 8192 / 6 ZW OB	25.191.0653.0 25.191.6653.0	338 338 339	8195 V/ 5/20 VB1 8195 V/ 5/20 VB1 OB	25.154.2553.0 25.154.4553.0 25.154.6553.0	373 373 373	8213 B / 10 S OB 8213 B / 10 TOP	27.341.4053.0 25.240.1053.0	286 287 296
8192 / 7 8192 / 7 OB	25.191.0053.0 25.190.0753.0 25.191.0753.0	338	8195 V/ 6/24 8195 V/ 6/24 OB	25.154.0653.0 25.154.2653.0 25.154.2653.0	373 373 373	8213 B / 10 TOP OB 8213 B / 10 VL	25.240.1053.0 25.240.4053.0 25.346.1053.0	296 299
8192 / 7 ZW OB	25.191.6753.0	339	8195 V/ 6/24 VB1	25.154.4653.0	373	8213 B / 10 VL OB	25.346.4053.0	289
8192 / 8	25.190.0853.0	338	8195 V/ 6/24 VB1 OB	25.154.6653.0	373	8213 B / 10 VR	25.345.1053.0	289
8192 / 8 OB	25.191.0853.0	338	8195 V/ 7/28	25.154.0753.0	373	8213 B / 10 VR OB	25.345.4053.0	289
8192 / 8 ZW OB	25.191.6853.0	339	8195 V/ 7/28 OB	25.154.2753.0	373	8213 B / 11	25.340.1153.0	286
8192 / 9	25.190.0953.0	338	8195 V/ 7/28 VB1	25.154.4753.0	373	8213 B / 11 F	25.323.1153.0	286
8192 / 9 OB	25.191.0953.0	338	8195 V/ 7/28 VP1 OB	25.154.6753.0	373	8213 B / 11 F OB	25.323.4153.0	286
8192 / 9 ZW OB	25.191.6953.0	339	8195 V/ 8/32	25.154.0853.0	373	8213 B / 11 OB	25.340.4153.0	286
8192 / 10	25.190.1053.0	338	8195 V/ 8/32 OB	25.154.2853.0	373	8213 B / 11 TOP	25.240.1153.0	296
8192 / 10 OB	25.191.1053.0	338	8195 V/ 8/32 VB1	25.154.4853.0	373	8213 B / 11 TOP OB	25.240.4153.0	296
8192 / 10 ZW OB	25.191.7053.0	339	8195 V/ 8/32 VB1 OB	25.154.6853.0	373	8213 B / 11 VL	25.346.1153.0	289
8192 / 11	25.190.1153.0	338	8195 V/ 9/36	25.154.0953.0	373	8213 B / 11 VL OB	25.346.4153.0	289
8192 / 11 OB	25.191.1153.0	338	8195 V/ 9/36 OB	25.154.2953.0	373	8213 B / 11 VR	25.345.1153.0	289
8192 / 11 ZW OB	25.191.7153.0	339	8195 V/ 9/36 VB1	25.154.4953.0	373	8213 B / 11 VR OB	25.345.4153.0	289
8192 / 12	25.190.1253.0	338	8195 V/ 9/36 VB1 OB	25.154.6953.0	373	8213 B / 12	25.340.1253.0	286
8192 / 12 OB	25.191.1253.0	338	8195 V/ 10/40	25.154.1053.0	373	8213 B / 12 F	25.323.1253.0	286
8192 / 12 ZW OB	25.191.7253.0	339	8195 V/ 10/40 OB	25.154.3053.0	373	8213 B / 12 F 0B	25.323.4253.0	286
8192 / 13 8192 / 13 OB	25.190.1353.0 25.191.1353.0	338 338	8195 V/ 10/40 VB1 8213 B / 2	25.154.5053.0 25.340.0253.0 25.323.0253.0	373 286	8213 B / 12 OB 8213 B / 12 TOP	25.340.4253.0 25.240.1253.0	286 296
8192 / 13 ZW OB	25.191.7353.0	339	8213 B / 2 F	25.323.0253.0	286	8213 B / 12 TOP OB	25.240.4253.0	296
8192 / 14	25.190.1453.0	338	8213 B / 2 F OB	25.323.3253.0	286	8213 B / 12 VL	25.346.1253.0	289
8192 / 14 OB	25.191.1453.0	338	8213 B / 2 OB	25.340.3253.0	286	8213 B / 12 VL OB	25.346.4253.0	289
8192 / 14 OB 8192 / 14 ZW OB 8192 / 15	25.191.7453.0 25.191.7453.0 25.190.1553.0	339 338	8213 B / 2 TOP 8213 B / 2 TOP OB	25.240.0253.0 25.240.3253.0 25.240.3253.0	296 296	8213 B / 12 VR 8213 B / 12 VR 8213 B / 12 VR OB	25.345.1253.0 25.345.1253.0 25.345.4253.0	289 289 289
8192 / 15 OB	25.191.1553.0	338	8213 B / 2 VL	25.346.0253.0	289	8213 B / 13	25.340.1353.0	286
8192 / 15 ZW OB	25.191.7553.0	339	8213 B / 2 VL 0B	25.346.3253.0	289	8213 B / 13 F	25.323.1353.0	286
8192 / 16	25.190.1653.0	338	8213 B / 2 VR	25.345.0253.0	289	8213 B / 13 F OB	25.323.4353.0	286
8192 / 16 OB	25.191.1653.0	338	8213 B / 2 VR OB	25.345.3253.0	289	8213 B / 13 OB	25.340.4353.0	286
8192 / 16 ZW OB	25.191.7653.0	339	8213 B / 3	25.340.0353.0	286	8213 B / 13 TOP	25.240.1353.0	296
8192 E / 12 / 24 OB	25.198.6253.0	364	8213 B / 3 F	25.323.0353.0	286	8213 B / 13 TOP OB	25.240.4353.0	296
8192 E / 2 / 4	25.198.0253.0	364	8213 B / 3 F OB	25.323.3353.0	286	8213 B / 13 VL	25.346.1353.0	289
8192 E / 2 / 4 OB	25.198.5253.0	364	8213 B / 3 OB	25.340.3353.0	286	8213 B / 13 VL OB	25.346.4353.0	289
8192 E / 2 / 4 ZN 8192 E / 2 / 4 ZN OB 8192 E / 3 / 6	25.198.4253.0 25.198.9253.0 25.198.0353.0	364 364	8213 B / 3 TOP 8213 B / 3 TOP OB 8213 B / 3 VL	25.240.0353.0 25.240.3353.0	296 296	8213 B / 13 VR 8213 B / 13 VR OB	25.345.1353.0 25.345.4353.0 25.340.1453.0	289 289
8192 E / 3 / 6 OB	25.198.5353.0	364	8213 B / 3 VL 8213 B / 3 VL OB 8213 B / 3 VR	25.346.0353.0 25.346.3353.0	289 289	8213 B / 14 8213 B / 14 F	25.340.1453.0 25.323.1453.0 25.323.4453.0	286 286
8192 E / 3 / 6 ZN 8192 E / 3 / 6 ZN OB	25.198.4353.0 25.198.9353.0	364 364	8213 B / 3 VR OB	25.345.0353.0 25.345.3353.0	289 289	8213 B / 14 F OB 8213 B / 14 OB	25.340.4453.0	286 286
8192 E / 4 / 8	25.198.0453.0	364	8213 B / 4	25.340.0453.0	286	8213 B / 14 TOP	25.240.1453.0	296
8192 E / 4 / 8 OB	25.198.5453.0	364	8213 B / 4 F	25.323.0453.0	286	8213 B / 14 TOP OB	25.240.4453.0	296
8192 E / 5 / 10	25.198.0553.0	■ 364	8213 B / 4 F OB	25.323.3453.0	286	8213 B / 14 VL	25.346.1453.0	289
8192 E / 5 / 10 OB	25.198.5553.0	■ 364	8213 B / 4 OB	25.340.3453.0	286	8213 B / 14 VL OB	25.346.4453.0	289
8192 E / 6 / 12	25.198.0653.0	■ 364	8213 B / 4 TOP	25.240.0453.0	296	8213 B / 14 VR	25.345.1453.0	289
8192 E / 6 / 12 OB 8192 E / 7 / 14	25.198.5653.0 25.198.0753.0	364 364 364	8213 B / 4 TOP OB 8213 B / 4 VL	25.240.0453.0 25.240.3453.0 25.346.0453.0	296 296 289	8213 B / 14 VR OB 8213 B / 15	25.345.1453.0 25.345.4453.0 25.340.1553.0	289 289 286
8192 E / 7 / 14 OB 8192 E / 8 / 16	25.198.5753.0 25.198.0853.0	364	8213 B / 4 VL OB 8213 B / 4 VR	25.346.3453.0 25.345.0453.0	289	8213 B / 15 F	25.323.1553.0 25.323.4553.0	286 286
8192 E / 8 / 16 OB 8192 E / 9 / 18	25.198.5853.0 25.198.0953.0	364	8213 B / 4 VR OB 8213 B / 5	25.345.3453.0 25.340.0553.0	289 289 286	8213 B / 15 F OB 8213 B / 15 OB 8213 B / 15 TOP	25.340.4553.0 25.240.1553.0	286 296
8192 E / 9 / 18 OB 8192 E / 10 / 20	25.198.5953.0 25.198.1053.0	■ 364 ■ 364 ■ 364	8213 B / 5 F 8213 B / 5 F OB	25.323.0553.0 25.323.3553.0	286 286	8213 B / 15 TOP OB 8213 B / 15 VL	25.240.4553.0 25.346.1553.0	296 289
8192 E / 10 / 20 OB	25.198.6053.0	364	8213 B / 5 F OB GOLD	25.323.3501.0	411	8213 B / 15 VL 0B	25.346.4553.0	289
8192 E / 11 / 22	25.198.1153.0	364	8213 B / 5 OB	25.340.3553.0	286	8213 B / 15 VR	25.345.1553.0	289
8192 E / 11 / 22 OB	25.198.6153.0	364	8213 B / 5 S OB	27.341.3553.0	287	8213 B / 15 VR OB	25.345.4553.0	289
8192 E / 12 / 24	25.198.1253.0	364	8213 B / 5 TOP	25.240.0553.0	296	8213 B / 16	25.340.1653.0	286
8195 D/ 2/6 8195 D/ 2/6 OB	25.153.0253.0 25.153.2253.0 25.153.4253.0	372 372	8213 B / 5 TOP OB 8213 B / 5 VL	25.240.3553.0 25.346.0553.0	296 289	8213 B / 16 F 8213 B / 16 F OB	25.323.1653.0 25.323.4653.0	286 286
8195 D/ 2/6 VB1	25.153.6253.0	372	8213 B / 5 VL OB	25.346.3553.0	289	8213 B / 16 OB	25.340.4653.0	286
8195 D/ 2/6 VB1 OB		372	8213 B / 5 VR	25.345.0553.0	289	8213 B / 16 TOP	25.240.1653.0	296
8195 D/ 3/9	25.153.0353.0	372	8213 B / 5 VR OB	25.345.3553.0	289	8213 B / 16 TOP OB	25.240.4653.0	296
8195 D/ 3/9 OB	25.153.2353.0	372	8213 B / 6	25.340.0653.0	286	8213 B / 16 VL	25.346.1653.0	289
8195 D/ 3/9 VB1	25.153.4353.0	372	8213 B / 6 F	25.323.0653.0	286	8213 B / 16 VL OB	25.346.4653.0	289

Type	Part no.	section / page	Type	Part no.	section / page	Type	Part no.	section / page
Type	Falt IIO.	section / page	Туре	Fait IIO.	section / page	туре	Fall IIO.	section / page
8213 B / 16 VR	25.345.1653.0	289	8213 S / 3 G OB	25.350.3353.0	297	8213 S / 12 G OB	25.350.4253.0	297
8213 B / 16 VR OB	25.345.4653.0	289	8213 S / 3 G OB GR OF	99.233.9996.1	297	8213 S / 12 G OB GR OF	99.242.9996.1	297
8213 BFK / 2 TOP K	25.840.0253.0	292	8213 S / 3 GF OB	25.359.3353.0	298	8213 S / 12 GF OB	25.359.4253.0	298
8213 BFK / 2 TOP K OB	25.840.3253.0	292	8213 S / 3 S OB GR	25.396.3353.0	302	8213 S / 12 S OB GR	25.396.4253.0	302
8213 BFK / 3 TOP K	25.840.0353.0	292	8213 S / 3 S1 OB GR	25.397.3353.0	302	8213 S / 12 S1 OB GR	25.397.4253.0	302
8213 BFK / 3 TOP K OB	25.840.3353.0	292	8213 S / 3 W OB	25.352.3353.0	298	8213 S / 12 W OB	25.352.4253.0	298
8213 BFK / 4 TOP K	25.840.0453.0	292	8213 S / 3 W OB GR OF	99.203.9996.2	299	8213 S / 12 W OB GR OF	99.212.9996.2	299
8213 BFK / 5 TOP K	25.840.0553.0	292	8213 S / 3 WF OB	25.358.3353.0	299	8213 S / 12 WF OB	25.358.4253.0	299
8213 BFK / 5 TOP K OB	25.840.3553.0	292	8213 S / 4 DFLS	25.303.3453.0	305	8213 S / 13 DFLS	25.303.4353.0	305
8213 BFK / 6 TOP K	25.840.0653.0	292	8213 S / 4 DFLS M	25.313.3453.0	305	8213 S / 13 DFLS M	25.313.4353.0	305
8213 BFK / 6 TOP K OB	25.840.3653.0	292	8213 S / 4 DFWW	25.303.0453.0	305	8213 S / 13 DFWW	25.303.1353.0	305
8213 BFK / 7 TOP K	25.840.0753.0	292	8213 S / 4 DFWW M	25.313.0453.0	305	8213 S / 13 DFWW M	25.313.1353.0	305
8213 BFK / 7 TOP K OB	25.840.3753.0	292	8213 S / 4 G OB	25.350.3453.0	297	8213 S / 13 G OB	25.350.4353.0	297
8213 BFK / 8 TOP K	25.840.0853.0	292	8213 S / 4 G OB GR OF	99.234.9996.1	297	8213 S / 13 G OB GR OF	99.243.9996.1	297
8213 BFK / 8 TOP K OB	25.840.3853.0	292	8213 S / 4 GF OB	25.359.3453.0	298	8213 S / 13 GF OB	25.359.4353.0	298
8213 BFK / 9 TOP K	25.840.0953.0	292	8213 S / 4 S OB GR	25.396.3453.0	302	8213 S / 13 S OB GR	25.396.4353.0	302
8213 BFK / 9 TOP K OB	25.840.3953.0	292	8213 S / 4 S1 OB GR	25.397.3453.0	302	8213 S / 13 S1 OB GR	25.397.4353.0	302
8213 BFK /10 TOP K	25.840.1053.0	292	8213 S / 4 W OB	25.352.3453.0	298	8213 S / 13 W OB	25.352.4353.0	298
8213 BFK /10 TOP K OB 8213 BFK /11 TOP K	25.840.4053.0 25.840.1153.0	292 292 292	8213 S / 4 W OB GR OF 8213 S / 4 WF OB	99.204.9996.2 25.358.3453.0	299 299	8213 S / 13 W OB GR OF 8213 S / 13 WF OB	99.213.9996.2 25.358.4353.0	299 299
8213 BFK /11 TOP K OB	25.840.4153.0	292	8213 S / 5 DFLS	25.303.3553.0	305	8213 S / 14 DFLS	25.303.4453.0	305
8213 BFK /12 TOP K	25.840.1253.0	292	8213 S / 5 DFLS M	25.313.3553.0	305	8213 S / 14 DFLS M	25.313.4453.0	305
8213 BFK /12 TOP K OB	25.840.4253.0	292	8213 S / 5 DFWW	25.303.0553.0	305	8213 s / 14 DFWW	25.303.1453.0	305
8213 BFK /13 TOP K	25.840.1353.0	292	8213 S / 5 DFWW M	25.313.0553.0	305	8213 S / 14 DFWW M	25.313.1453.0	305
8213 BFK /13 TOP K OB	25.840.4353.0	292	8213 S / 5 G OB	25.350.3553.0	297	8213 S / 14 G OB	25.350.4453.0	297
8213 BFK /14 TOP K	25.840.1453.0	292	8213 S / 5 G OB GR OF	99.235.9996.1	297	8213 S / 14 G OB GR OF	99.244.9996.1	297
8213 BFK /14 TOP K OB	25.840.4453.0	292	8213 S / 5 GF OB	25.359.3553.0	298	8213 S / 14 GF OB	25.359.4453.0	298
8213 BFK /15 TOP K	25.840.1553.0	292	8213 S / 5 S OB GR	25.396.3553.0	302	8213 S / 14 S OB GR	25.396.4453.0	302
8213 BFK /15 TOP K OB 8213 BFK /16 TOP K	25.840.4553.0 25.840.1653.0	292 292 292	8213 S / 5 S1 OB GR 8213 S / 5 W OB	25.397.3553.0 25.352.3553.0	302 302 298	8213 S / 14 S1 OB GR 8213 S / 14 W OB	25.397.4453.0 25.352.4453.0	302 302 298
8213 BFK /16 TOP K OB 8213 BFK/12 TOP K F	25.840.4653.0 25.841.1253.0	292 292 292	8213 S / 5 W OB GR OF 8213 S / 5 WF OB	99.205.9996.2 25.358.3553.0	299 299	8213 S / 14 W OB GR OF 8213 S / 14 WF OB	99.214.9996.2 25.358.4453.0	299
8213 BL / 2 G 8213 BL / 2 G OB	25.342.0253.0 25.342.3253.0	295	8213 S / 6 DFLS 8213 S / 6 DFLS M	25.303.3653.0 25.313.3653.0	305 305	8213 S / 15 DFLS 8213 S / 15 DFLS M	25.303.4553.0 25.313.4553.0	305
8213 BL / 2 W 8213 BL / 2 W 0B	25.343.0253.0 25.343.3253.0	295	8213 S / 6 DFWW 8213 S / 6 DFWW M	25.303.0653.0 25.313.0653.0	305	8213 S / 15 DFWW 8213 S / 15 DFWW M	25.303.1553.0 25.313.1553.0	305
8213 BL / 3 G	25.342.0353.0	295	8213 S / 6 G OB	25.350.3653.0	297	8213 S / 15 G OB 8213 S / 15 G OB GR OF	25.350.4553.0	297
8213 BL / 3 G OB 8213 BL / 3 W	25.342.3353.0 25.343.0353.0	295	8213 S / 6 G OB GR OF 8213 S / 6 GF OB	99.236.9996.1 25.359.3653.0	297 298	8213 S / 15 GF OB	99.245.9996.1 25.359.4553.0	297 298
8213 BL / 3 W OB	25.343.3353.0	295	8213 S / 6 S OB GR	25.396.3653.0	302	8213 S / 15 S OB GR	25.396.4553.0	302
8213 BL / 4 G	25.342.0453.0	295	8213 S / 6 S1 OB GR	25.397.3653.0	302	8213 S / 15 S1 OB GR	25.397.4553.0	302
8213 BL / 4 G OB	25.342.3453.0	295	8213 S / 6 W OB	25.352.3653.0	298	8213 S / 15 W 0B	25.352.4553.0	298
8213 BL / 4 W	25.343.0453.0	295	8213 S / 6 W OB GR OF	99.206.9996.2	299	8213 S / 15 W 0B GR 0F	99.215.9996.2	299
8213 BL / 4 W OB	25.343.3453.0	295	8213 S / 6 WF OB	25.358.3653.0	299	8213 S / 15 WF OB	25.358.4553.0	299
8213 BL / 5 G	25.342.0553.0	295	8213 S / 7 DFLS	25.303.3753.0	305	8213 S / 16 DFLS	25.303.4653.0	305
8213 BL / 5 G OB	25.342.3553.0	295	8213 S / 7 DFLS M	25.313.3753.0	305	8213 S / 16 DFLS M	25.313.4653.0	305
8213 BL / 5 W	25.343.0553.0	295	8213 S / 7 DFWW	25.303.0753.0	305	8213 S / 16 DFWW	25.303.1653.0	305
8213 BL / 5 W OB	25.343.3553.0	295	8213 S / 7 DFWW M	25.313.0753.0	305	8213 S / 16 DFWW M	25.313.1653.0	305
8213 BL / 6 G	25.342.0653.0	295	8213 S / 7 G OB	25.350.3753.0	297	8213 S / 16 G OB	25.350.4653.0	297
8213 BL / 6 G OB	25.342.3653.0	295	8213 S / 7 G OB GR OF	99.237.9996.1	297	8213 S / 16 G OB GR OF	99.246.9996.1	297
8213 BL / 6 W	25.343.0653.0	295	8213 S / 7 GF OB	25.359.3753.0	298	8213 S / 16 GF OB	25.359.4653.0	298
8213 BL / 6 W OB	25.343.3653.0	295	8213 S / 7 S OB GR	25.396.3753.0	302	8213 S / 16 S OB GR	25.396.4653.0	302
8213 BL / 7 G	25.342.0753.0	295	8213 S / 7 S1 OB GR	25.397.3753.0	302	8213 S / 16 S1 OB GR	25.397.4653.0	302
8213 BL / 7 G OB	25.342.3753.0	295	8213 S / 7 W OB	25.352.3753.0	298	8213 S / 16 W 0B	25.352.4653.0	298
8213 BL / 7 W	25.343.0753.0	295	8213 S / 7 W OB GR OF	99.207.9996.2	299	8213 S / 16 W 0B GR 0F	99.216.9996.2	299
8213 BL / 7 W OB	25.343.3753.0	295	8213 S / 7 WF 0B	25.358.3753.0	299	8213 S / 16 WF OB	25.358.4653.0	299
8213 BL / 8 G	25.342.0853.0	295	8213 S / 8 DFLS	25.303.3853.0	305	8213 S / 9 G OB GR OF	99.239.9996.1	297
8213 BL / 8 G OB	25.342.3853.0	295	8213 S / 8 DFLS M	25.313.3853.0	305	8213 S E / 2 G OB	25.354.3253.0	303
8213 BL / 8 W	25.343.0853.0	295	8213 S / 8 DFWW	25.303.0853.0	305	8213 S E / 2 W OB	25.356.3253.0	
8213 BL / 8 W OB	25.343.3853.0	295	8213 S / 8 DFWW M	25.313.0853.0	305	8213 S E / 3 G OB	25.354.3353.0	303
8213 BL / 9 G	25.342.0953.0	295	8213 S / 8 G OB	25.350.3853.0	297	8213 S E / 3 W OB	25.356.3353.0	303
8213 BL / 9 W	25.343.0953.0	295	8213 S / 8 G OB GR OF	99.238.9996.1	297	8213 SEG/ 5/10 G OB	27.354.0553.0	304
8213 BL / 9W 0B	25.343.3953.0	295	8213 S / 8 GF OB	25.359.3853.0	298	8213 SEG/ 5/10 W OB	27.356.0553.0	304
8213 BL / 10 G	25.342.1053.0	295	8213 S / 8 S OB GR	25.396.3853.0	302	8213 SEG/10/20 G OB	27.354.1053.0	304
8213 BL / 10 G OB	25.342.4053.0	295	8213 S / 8 S1 OB GR	25.397.3853.0	302	8213 SEG/10/20 W OB	27.356.1053.0	304
8213 BL / 10 W	25.343.1053.0	295	8213 S / 8 W OB	25.352.3853.0	298	8213 SUFK/ 2 TOP	25.857.0253.0	293
8213 BL / 10 W 0B	25.343.4053.0	295	8213 S / 8 W OB GR OF	99.208.9996.2	299	8213 SUFK/ 2 TOP OB	25.857.3253.0	293
8213 BL / 11 G	25.342.1153.0	295	8213 S / 8 WF 0B	25.358.3853.0	299	8213 SUFK/ 3 TOP	25.857.0353.0	293
8213 BL / 11 G OB	25.342.4153.0	295	8213 S / 9 DFLS	25.303.3953.0	305	8213 SUFK/ 3 TOP OB	25.857.3353.0	293
8213 BL / 11 W	25.343.1153.0	295	8213 S / 9 DFLS M	25.313.3953.0	305	8213 SUFK/ 4 TOP	25.857.0453.0	293
8213 BL / 11 W OB	25.343.4153.0	295	8213 S / 9 DFWW	25.303.0953.0	305	8213 SUFK/ 4 TOP OB	25.857.3453.0	293
8213 BL / 12 G	25.342.1253.0	295	8213 S / 9 DFWW M	25.313.0953.0	305	8213 SUFK/ 5 TOP	25.857.0553.0	293
8213 BL / 12 G OB	25.342.4253.0	295	8213 S / 9 G OB	25.350.3953.0	297	8213 SUFK/ 5 TOP OB	25.857.3553.0	293
8213 BL / 12 W	25.343.1253.0	295	8213 S / 9 GF OB	25.359.3953.0	298	8213 SUFK/ 6 TOP	25.857.0653.0	293
8213 BL / 12 W OB	25.343.4253.0	295	8213 S / 9 S OB GR	25.396.3953.0	302	8213 SUFK/ 6 TOP OB	25.857.3653.0	293
8213 BL / 13 G	25.342.1353.0	295	8213 S / 9 S1 OB GR	25.397.3953.0	302	8213 SUFK/ 7 TOP	25.857.0753.0	293
8213 BL / 13 G OB	25.342.4353.0	295	8213 S / 9 W OB	25.352.3953.0	298	8213 SUFK/ 7 TOP OB	25.857.3753.0	293
8213 BL / 13 W	25.343.1353.0	295	8213 S / 9 W OB GR OF	99.209.9996.2	299	8213 SUFK/ 8 TOP	25.857.0853.0	293
8213 BL / 13 W OB	25.343.4353.0	295	8213 S / 9 WF OB	25.358.3953.0	299	8213 SUFK/ 8 TOP OB	25.857.3853.0	293
8213 BL / 14 G 8213 BL / 14 G OB	25.342.1453.0 25.342.4453.0	295 295	8213 S / 10 DFLS 8213 S / 10 DFLS M 8213 S / 10 DFWW	25.303.4053.0 25.313.4053.0	305 305	8213 SUFK/ 9 TOP 8213 SUFK/ 9 TOP OB 8213 SUFK/10 TOP	25.857.0953.0 25.857.3953.0	293 293
8213 BL / 14 W 8213 BL / 14 W OB	25.343.1453.0 25.343.4453.0	295 295	8213 S / 10 DFWW M	25.303.1053.0 25.313.1053.0	305 305	8213 SUFK/10 TOP OB	25.857.1053.0 25.857.4053.0	293
8213 BL / 15 G	25.342.1553.0	295	8213 S / 10 G OB	25.350.4053.0	297	8213 SUFK/11 TOP	25.857.1153.0	293
8213 BL / 15 G OB	25.342.4553.0	295	8213 S / 10 G OB GR OF	99.240.9996.1	297	8213 SUFK/11 TOP OB	25.857.4153.0	293
8213 BL / 15 W	25.343.1553.0	295	8213 S / 10 GF OB	25.359.4053.0	298	8213 SUFK/12 TOP	25.857.1253.0	293
8213 BL / 15 W OB	25.343.4553.0	295	8213 S / 10 S OB GR	25.396.4053.0	302	8213 SUFK/12 TOP OB	25.857.4253.0	293
8213 BL / 16 G	25.342.1653.0	295	8213 S / 10 S1 OB GR	25.397.4053.0	302	8213 SUFK/13 TOP	25.857.1353.0	293
8213 BL / 16 G OB	25.342.4653.0	295	8213 S / 10 W OB	25.352.4053.0	298	8213 SUFK/13 TOP OB	25.857.4353.0	293
8213 BL / 16 W	25.343.1653.0	295	8213 S / 10 W OB GR OF	99.210.9996.2	299	8213 SUFK/14 TOP	25.857.1453.0	293
8213 BL / 16 W OB	25.343.4653.0	295	8213 S / 10 WF OB	25.358.4053.0	299	8213 SUFK/14 TOP OB	25.857.4453.0	293
8213 S 2 DFWW	25.303.0253.0	305	8213 S / 11 DFLS	25.303.4153.0	305	8213 SUFK/15 TOP	25.857.1553.0	293
8213 S / 2 DFLS	25.303.3253.0	305	8213 S / 11 DFLS M	25.313.4153.0	305	8213 SUFK/15 TOP OB	25.857.4553.0	293
8213 S / 2 DFLS M	25.313.3253.0	305	8213 S / 11 DFWW	25.303.1153.0	305	8213 SUFK/16 TOP	25.857.1653.0	293
8213 S / 2 DFWW M	25.313.0253.0	305	8213 S / 11 DFWW M	25.313.1153.0	305	8213 SUFK/16 TOP OB	25.857.4653.0	293
8213 S / 2 G OB	25.350.3253.0	297	8213 S / 11 G OB	25.350.4153.0	297	8213BL / 9 G OB	25.342.3953.0	295
8213 S / 2 G OB GR OF	99.232.9996.1	297	8213 S / 11 G OB GR OF	99.241.9996.1	297	8234 / 11	25.502.1153.0	360
8213 S / 2 GF OB	25.359.3253.0	298	8213 S / 11 GF OB	25.359.4153.0	298	8234 / 13	25.502.1353.0	360
8213 S / 2 S OB GR	25.396.3253.0	302	8213 S / 11 S OB GR	25.396.4153.0	302	8234 / 15	25.502.1553.0	360
8213 S / 2 S1 OB GR	25.397.3253.0	302	8213 S / 11 S1 OB GR	25.397.4153.0	302	8234 / 16	25.502.1653.0	360
8213 S / 2 W OB	25.352.3253.0	298	8213 S / 11 W OB	25.352.4153.0	298	8234 / 2	25.502.0253.0	360
8213 S / 2 W OB GR OF	99.202.9996.2	299	8213 S / 11 W OB GR OF	99.211.9996.2	299	8234 / 2 OB	25.503.0253.0	360
8213 S / 2 WF OB	25.358.3253.0	299	8213 S / 11 WF OB	25.358.4153.0	299	8234 / 2 ZN	25.502.6253.0	360
8213 S / 3 DFLS	25.303.3353.0	305	8213 S / 12 DFLS	25.303.4253.0	305	8234 / 2 ZN OB	25.503.6253.0	360
8213 S / 3 DFLS M	25.313.3353.0	305	8213 S / 12 DFLS M	25.313.4253.0	305	8234 / 3	25.502.0353.0	360
8213 S / 3 DFWW	25.303.0353.0	305	8213 S / 12 DFWW	25.303.1253.0	305	8234 / 3 OB	25.503.0353.0	360
8213 S / 3 DFWW M	25.313.0353.0	305	8213 S / 12 DFWW M	25.313.1253.0	305	8234 / 3 ZN	25.502.6353.0	360
		-			-			0.41

1.5 1.5	Туре	Part no.	section / page	Туре	Part no.	section / page	Type	Part no.	section / page
1967 1967		25.503.6353.0		•					
501/4 C	8234 / 4 OB	25.503.0453.0	360	8285/ 4 TOP H	25.751.3453.0	350	8291 E / 3 / 6 ZN	25.179.4353.0	366
Section Sect	8234 / 5 OB	25.503.0553.0	360	8285/ 5 TOP H	25.751.3553.0	350	8291 E / 4 / 8	25.179.0453.0	366
10.14 1	8234 / 6 OB	25.503.0653.0	360	8285/ 6 TOP H	25.751.3653.0	350	8291 E / 5 / 10	25.179.0553.0	366
1854 G.	8234 / 7 OB	25.503.0753.0	360	8285/ 8 TOP V	25.751.0853.0	349	8291 E / 6 / 12	25.179.0653.0	366
Bay 19	8234 / 8 OB	25.503.0853.0	360	8285/ 10 TOP V	25.751.1053.0	349	8291 E / 7 / 12	25.179.0753.0	366
123 1	8234 / 9 OB	25.503.0953.0	360	8285/ 15 TOP V	25.751.1553.0	349	8291 E / 8 / 16	25.179.0853.0	366
Col.	8234 / 10 OB	25.503.1053.0	360	8291 / 2	25.162.0253.0	344	8291 E / 10 / 20	25.179.1053.0	366
California Cal	8234 / 12	25.502.1253.0		8291 / 2 ZN	25.172.0253.0	344	8291 E / 11 / 22	25.179.1153.0	366
Sept 19	8234 / 13 OB	25.503.1353.0	360	8291 / 2 ZW	25.162.6253.0	345	8291 E / 12 / 24	25.179.1253.0	366
520 / 19 GB		25.503.1453.0	360	8291 / 3	25.162.0353.0	344 344	8291 E/ 8 / 16 OB 8291 E/ 9 / 18 OB	25.179.5853.0	366
\$259.7.2 PM	8235 / 2		360			344			
267.7 3 ms	8235 / 2 ZN	25.522.6253.0	362	8291 / 3 ZW 0B	25.163.6353.0	345	8291 R / 3 Z OB	25.156.0353.0	342
806 / 1 PM	8235 / 3	25.522.0353.0	362	8291 / 4 OB	25.163.0453.0	344	8291 R / 3/ 2 Z OB	25.157.4253.0	343
BERN 4 CR. 25.822.0651.0 3.02 BERN 7 8 W. BERN 7 9 W. BERN	8235 / 3 ZN	25.522.6353.0	362	8291 / 4 ZW OB	25.163.6453.0	345	8291 R / 5 Z	25.156.2553.0	342
1875 5	8235 / 4	25.522.0453.0	362	8291 / 5 OB	25.163.0553.0	344	8291 R / 5/3 Z	25.157.5353.0	343
1925 6	8235 / 5	25.522.0553.0	362	8291 / 5 ZW OB	25.163.6553.0	345	8291 R / 6 Z	25.156.2653.0	342
\$255,77	8235 / 6	25.522.0653.0	362	8291 / 6 OB	25.163.0653.0	344	8291 R / 7 Z	25.156.2753.0	342
8257, F 8 0	8235 / 7	25.522.0753.0	362	8291 / 6 ZW 0B	25.163.6653.0	345	8291 R / 7/4 Z	25.157.5453.0	343
EZE 9	8235 / 8	25.522.0853.0	362	8291 / 7 OB	25.163.0753.0	344	8291 R / 8 Z	25.156.2853.0	342
### SEEP, 10	8235 / 9	25.522.0953.0	362	8291 / 7 ZW OB	25.163.6753.0	345	8291 R / 9 Z	25.156.2953.0	342
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BCBP 17 10	8235 / 11	25.522.1153.0		8291 / 8 ZW OB	25.163.6853.0	345	8291 R / 10 Z	25.156.3053.0	342
805. 13 18 25 22 155.0 3 52 621 73 70 62 52 53 53 53 53 53 53 5			362					25.156.3153.0	- 0.40
8225 16 08 25.523 163.3 0 362 8291 10 ZW 25.162,7093.0 346 8291 11 Z UB 25.162,1093.0 342 8291 10 ZW 25.162,1093.0 342 8291 11 Z UB 25.252,1093.0 342 8291 11 Z UB 25.252,1093.0 342 8291 11 Z UB 25.162,1093.0 342 8291 12 Z UB 25.162,1093.0 345 8291 11 Z UB 25.162,1093.0 345 8291 12 Z UB 25	8235 / 13 OB	25.523.1353.0	362 362	8291 / 10	25.162.1053.0	345 344	8291 R / 11/ 6 Z OB	25.157.4653.0	343 343
8255 15 GB	8235 / 14 OB	25.523.1453.0	362	8291 / 10 ZW	25.162.7053.0	345	8291 R / 12 Z OB	25.156.1253.0	342
8258 / 10 PH 0B	8235 / 15 OB	25.523.1553.0	362	8291 / 11	25.162.1153.0	344	8291 R / 13 Z OB	25.156.1353.0	342
RZSE / 3 TOP V OB	8235 / 16 OB	25.523.1653.0	362	8291 / 11 ZW	25.162.7153.0	345	8291 R / 14 Z	25.156.3453.0	342
8288 / 4 TOP V 0B	8258 / 2 TOP V OB	25.781.0253.0	353	8291 / 12	25.162.1253.0	344	8291 R/ 4 Z OB	25.156.0453.0	342
8289 / 5 TOP H OB	8258 / 3 TOP V OB	25.781.0353.0	353	8291 / 12 ZW	25.162.7253.0	345	8292 / 2	25.192.0253.0	338
8289 / 70P + 108	8258 / 4 TOP V OB	25.781.0453.0	353	8291 / 13	25.162.1353.0	344	8292 / 2 ZN	25.192.9253.0	338
8258 / 17 TOP V 08	8258 / 6 TOP H OB	25.791.0653.0	353	8291 / 13 ZW OB	25.163.7353.0	345	8292 / 2 ZW 0B	25.193.6253.0	339
8258 / 9 TOP H 0B	8258 / 7 TOP V OB 8258 / 8 TOP H OB	25.781.0753.0 25.791.0853.0	353 353	8291 / 14 OB		344	8292 / 3 OB	25.193.0353.0 25.192.9353.0	338 338
8258 / 10 TOP H OB	8258 / 9 TOP H OB	25.791.0953.0	353	8291 / 15	25.162.1553.0	344	8292 / 3 ZW OB	25.193.6353.0	339
8258 /11 TOP H BB	8258 / 10 TOP H OB	25.791.1053.0	353	8291 / 15 ZW	25.162.7553.0	345	8292 / 4 OB	25.193.0453.0	338
8258 / 12 TOP H 08	8258 / 11 TOP H OB	25.791.1153.0	353	8291 / 16	25.162.1653.0	344	8292 / 5	25.192.0553.0	338
8258 / 13 TOP H OB	8258 / 12 TOP H OB	25.791.1253.0	353	8291 / 16 ZW	25.162.7653.0	345	8292 / 5 ZW OB	25.193.6553.0	339
8258 / 14 TOP V OB	8258 / 13 TOP H OB	25.791.1353.0	353	8291 D / 2 / 6	25.181.0253.0	370	8292 / 6 OB	25.193.0653.0	338
8258 /15 TOP H OB	8258 / 14 TOP H OB	25.791.1453.0	353	8291 D / 2 / 6 ZN 8291 D / 2 / 6 ZN	25.181.4253.0	370	8292 / 7 8292 / 7 9202 / 7 OR	25.193.0053.0 25.192.0753.0	338
8258 / 16 TOP H OB	8258 / 15 TOP H OB	25.791.1553.0	353	8291 D / 3 / 9	25.181.0353.0	370	8292 / 7 ZW OB	25.193.6753.0	339
8285 / 5 TOP V OB	8258 / 16 TOP H OB	25.791.1653.0	353	8291 D / 3 / 9 ZN	25.181.4353.0	370	8292 / 8 .OB	25.193.0853.0	338
8276	8258 / 5 TOP V OB	25.781.0553.0	353	8291 D / 4 / 12	25.181.0453.0	370	8292 / 9	25.192.0953.0	338
8285 TOP H 25.751.3853.0 350 8291 D / 6 / 18 0B 25.181.0653.0 370 8292 / 10 0B 25.193.1053.0 338 8285 TOP H 25.751.3853.0 350 8291 D / 6 / 18 0B 25.181.6653.0 370 8292 / 10 2W 0B 25.193.7053.0 339 8285 TOP H 25.751.3853.0 350 8291 D / 7 / 21 25.181.0753.0 370 8292 / 11 0B 25.193.1053.0 338 8285 TOP H 25.751.4153.0 350 8291 D / 7 / 21 0B 25.181.5753.0 370 8292 / 11 0B 25.193.1153.0 338 8285 TOP H 25.751.4253.0 350 8291 D / 8 / 24 25.181.6853.0 370 8292 / 11 0B 25.193.1153.0 338 8285 TOP H 25.751.4353.0 350 8291 D / 8 / 24 0B 25.181.5853.0 370 8292 / 11 2W 0B 25.193.1153.0 338 8285 TOP H 25.751.4453.0 350 8291 D / 8 / 24 0B 25.181.5853.0 370 8292 / 12 2 25.192.1253.0 338 8285 TOP H 25.751.4453.0 350 8291 D / 8 / 27 0B 25.181.5953.0 370 8292 / 12 0B 25.193.1253.0 338 8285 TOP H 25.751.4453.0 350 8291 D / 9 / 27 25.181.0953.0 370 8292 / 12 0B 25.193.1253.0 338 8285 TOP H 25.751.4953.0 349 8291 D / 10 / 30 25.181.5953.0 370 8292 / 12 0B 25.193.1253.0 338 8285 TOP V 25.751.0953.0 349 8291 D / 10 / 30 25.181.1053.0 370 8292 / 13 0B 25.193.1353.0 338 8285 TOP V 25.751.1353.0 349 8291 D / 10 / 30 25.181.6053.0 370 8292 / 13 0B 25.193.1353.0 338 8285 TOP V 25.751.1353.0 349 8291 D / 11 / 33 0B 25.181.6053.0 370 8292 / 13 0B 25.193.1353.0 338 8285 TOP V 25.751.1453.0 349 8291 D / 11 / 33 0B 25.181.6053.0 370 8292 / 14 0B 25.193.1353.0 338 8285 TOP V 25.751.1453.0 349 8291 D / 11 / 33 0B 25.181.6053.0 370 8292 / 14 0B 25.193.1353.0 338 8285 TOP V 25.751.1453.0 349 8291 D / 11 / 33 0B 25.181.6053.0 370 8292 / 14 0B 25.193.1353.0 338 8285 TOP V 25.751.1453.0 349 8291 D / 11 / 33 0B 25.181.6053.0 370 8292 / 14 0B 25.193.1453.0 338 8285 TOP V 25.751.1453.0 349 8291 D / 11 / 33 0B 25.181.6053.0 370 8292 / 14 0B 25.193.1453.0 338 8285 TOP V 25.751.1453.0 349 8291 D / 11 / 33 0B 25.181.6053.0 370 8292 / 14 0B 25.193.1453.0 338 8285 TOP V 25.751.1453.0 349 8291 D / 12 / 36 0B 25.181.6053.0 370 8292 / 14 0B 25.193.1453.0 338 8285 TOP V 25.751.1453.0 349 8291 D / 12 / 36 0B 25.181.6053.0 370 8292 / 14 0B 25.193.1453.0 338 8285 TOP V	8276	25.720.1353.0	378	8291 D / 5 / 15	25.181.0553.0	370	8292 / 9 ZW OB	25.193.6953.0	339
285 TOP H 25.751.3953.0 350 8291 D / 7 /21 25.181.0753.0 370 8292 / 11 25.192.1153.0 338 2828 TOP H 25.751.4153.0 350 8291 D / 7 /21 08 25.181.15753.0 370 8292 / 11 08 25.193.7153.0 339 2828 TOP H 25.751.4253.0 350 8291 D / 8 /24 25.181.0853.0 370 8292 / 11 ZW 0B 25.193.7153.0 339 2828 TOP H 25.751.4453.0 350 8291 D / 8 /24 25.181.6853.0 370 8292 / 12 25.192.1253.0 338 2828 TOP H 25.751.4453.0 350 8291 D / 9 /27 25.181.0953.0 370 8292 / 12 26.192.1253.0 338 2828 TOP H 25.751.4453.0 350 8291 D / 9 /27 25.181.0953.0 370 8292 / 12 ZW 0B 25.193.1253.0 338 2828 TOP V 25.751.0953.0 349 8291 D / 10/30 25.181.1053.0 370 8292 / 12 ZW 0B 25.193.7253.0 339 2828 TOP V 25.751.1953.0 349 8291 D / 10/30 25.181.1053.0 370 8292 / 13 ZW 0B 25.193.1353.0 338 2828 TOP V 25.751.1353.0 349 8291 D / 11/33 25.181.1053.0 370 8292 / 13 ZW 0B 25.193.1353.0 338 2828 TOP V 25.751.1353.0 349 8291 D / 11/33 25.181.1153.0 370 8292 / 13 ZW 0B 25.193.1353.0 338 2828 TOP V 25.751.1353.0 349 8291 D / 11/33 25.181.1153.0 370 8292 / 14 ZW 0B 25.193.7353.0 339 2828 TOP V 25.751.1353.0 349 8291 D / 11/33 25.181.1153.0 370 8292 / 14 ZW 0B 25.193.7353.0 339 2828 TOP V 25.751.1353.0 349 8291 D / 11/33 25.181.153.0 370 8292 / 14 ZW 0B 25.193.1453.0 338 2828 TOP V 25.751.1453.0 349 8291 D / 12/36 25.181.1253.0 370 8292 / 14 ZW 0B 25.193.1453.0 338 2828 TOP V 25.751.1653.0 349 8291 D / 12/36 25.181.1253.0 370 8292 / 14 ZW 0B 25.193.1453.0 338 2828 TOP V 25.751.1653.0 349 8291 D / 12/36 25.181.1253.0 370 8292 / 14 ZW 0B 25.193.1453.0 338 2828 TOP V 25.751.1653.0 349 8291 D / 12/36 25.181.1253.0 370 8292 / 14 ZW 0B 25.193.1453.0 338 2828 TOP V 25.751.1653.0 349 8291 D / 12/36 25.181.1253.0 370 8292 / 14 ZW 0B 25.193.1453.0 338 2828 TO	8285 TOP H	25.751.3753.0	350	8291 D / 6 / 18	25.181.0653.0	370	8292 / 10 OB	25.193.1053.0	338
8285 TOP H 25.751.4253.0 350 8291 D / 8 /24 25.181.0853.0 370 8292 / 11 ZW 0B 25.193.153.0 339 8285 TOP H 25.751.4453.0 350 8291 D / 9 /27 25.181.0953.0 370 8292 / 12 0B 25.193.1253.0 338 8285 TOP H 25.751.4453.0 350 8291 D / 9 /27 0B 25.181.0953.0 370 8292 / 12 QB 25.193.1253.0 338 8285 TOP V 25.751.0753.0 349 8291 D / 10 / 30 25.181.5953.0 370 8292 / 12 ZW 0B 25.193.7253.0 339 8285 TOP V 25.751.1953.0 349 8291 D / 10 / 30 82.51.81.6053.0 370 8292 / 13 ZW 0B 25.193.1353.0 338 8285 TOP V 25.751.1153.0 349 8291 D / 11 / 33 25.181.16053.0 370 8292 / 13 ZW 0B 25.193.1353.0 338 8285 TOP V 25.751.1453.0 349 8291 D / 11 / 33 0B 25.181.6153.0 370 8292 / 13 ZW 0B 25.193.7353.0 338 8285 TOP V 25.751.1453.0 349 8291 D / 11 / 33 0B 25.181.6153.0 370 8292 / 14 QB 25.193.145	8285 TOP H	25.751.4153.0		8291 D / 7 / 21 OB			8292 / 11 OB		
8285 TOP H 25.751.4453.0 350 8291 D / 9 / 27 25.181.0953.0 370 8292 / 12 OB 25.193.1253.0 338 8285 TOP H 25.751.4553.0 349 8291 D / 10 / 30 0B 25.181.1053.0 370 8292 / 12 W0B 25.192.1353.0 338 8285 TOP V 25.751.0953.0 349 8291 D / 10 / 30 0B 25.181.1053.0 370 8292 / 13 OB 25.192.1353.0 338 8285 TOP V 25.751.1153.0 349 8291 D / 10 / 30 0B 25.181.6053.0 370 8292 / 13 OB 25.193.1353.0 338 8285 TOP V 25.751.1153.0 349 8291 D / 11 / 33 0B 25.181.6053.0 370 8292 / 13 OB 25.193.1353.0 338 8285 TOP V 25.751.1453.0 349 8291 D / 11 / 33 0B 25.181.6153.0 370 8292 / 14 W0B 25.192.1453.0 338 8285 TOP V 25.751.1453.0 349 8291 D / 11 / 33 OB 25.181.6153.0 370 8292 / 14 W0B 25.192.1453.0 338 8285 TOP V 25.751.1453.0 349 8291 D / 12 / 36 25.181.6153.0 370 8292 / 14 W0B 25.193.1453.0 338 8285 TOP V 25.751.1453.0 349 8291 D / 12 / 36 0B 25.181.1253.0 370 8292 / 14 OB 25.193.1453.0 338 8285 TOP V 25.751.1653.0 350 8291 D / 12 / 36 OB 25.181.6253.0 370 8292 / 14 OB 25.193.1453.0 338 8285 / 1 TOP H 25.751.0053.0 350 8291 E / 2 / 4 0B 25.179.0253.0 366 8292 / 15 OB 25.193.1553.0 338 8285 / 1 TOP H 25.751.0053.0 350 8291 E / 2 / 4 OB 25.179.5253.0 366 8292 / 15 OB 25.193.1553.0 338 8285 / 1 TOP H 25.751.0053.0 350 8291 E / 2 / 4 OB 25.179.5253.0 366 8292 / 15 OB 25.193.1553.0 338 8285 / 1 TOP H 25.751.3253.0 350 8291 E / 2 / 4 OB 25.179.4253.0 366 8292 / 15 OB 25.193.1553.0 338	8285 TOP H	25.751.4253.0 25.751.4353.0	350 350	8291 D / 8 / 24 8291 D / 8 / 24 OB	25.181.5853.0	370 370	8292 / 11 ZW OB 8292 / 12	25.192.1253.0	339 338
8285 TOP V 25.751.0953.0 349 8291 D / 10 / 30 0B 25.181.6053.0 370 8292 / 13 0B 25.193.1353.0 338 8285 TOP V 25.751.1153.0 349 8291 D / 11 / 33 25.181.1153.0 370 8292 / 13 ZW 0B 25.193.7353.0 339 8285 TOP V 25.751.1453.0 349 8291 D / 11 / 33 0B 25.181.6153.0 370 8292 / 14 25.193.1453.0 338 8285 TOP V 25.751.1463.0 349 8291 D / 11 / 36 25.181.1253.0 370 8292 / 14 0B 25.193.1453.0 338 8285 TOP V 25.751.1653.0 349 8291 D / 12 / 36 0B 25.181.6253.0 370 8292 / 14 W0B 25.193.7453.0 339 8285 TOP V 25.751.1053.0 350 8291 E / 2 / 4 25.179.0253.0 366 8292 / 15 25.192.1553.0 338 8285 TOP W 25.751.0053.0 349 8291 E / 2 / 4 25.179.0253.0 366 8292 / 15 25.192.1553.0 338 8285 TOP W 25.751.0053.0 349 8291 E / 2 / 4 ZN 25.179.5253.0 366 8292 / 15 82.5193.1553.0 338 8285 TOP W 25.751.0053.0 350 8291 E / 2 / 4 ZN 25.179.4253.0 366 8292 / 15 82.5193.7	8285 TOP H	25.751.4453.0 25.751.4553.0	350	8291 D / 9 / 27 8291 D / 9 / 27 OB	25.181.5953.0	370	8292 / 12 ZW OB	25.193.7253.0	339
8285 TOP V 25.751.1353.0 349 8291 D / 11 / 33 OB 25.181.6153.0 370 8292 / 14 OB 25.192.1453.0 338 8285 TOP V 25.751.1453.0 349 8291 D / 12 / 36 25.181.1253.0 370 8292 / 14 OB 25.193.1453.0 338 8285 TOP V 25.751.1653.0 349 8291 D / 12 / 36 OB 25.181.6253.0 370 8292 / 14 OB 25.193.1453.0 339 8285 / 1 TOP H 25.751.0153.0 350 8291 E / 2 / 4 OB 25.179.0253.0 366 8292 / 15 OB 25.193.1553.0 338 8285 / 1 TOP H 25.751.3253.0 350 8291 E / 2 / 4 CN 25.179.5253.0 366 8292 / 15 OB 25.193.1553.0 338 8286 / 1 TOP H 25.751.3253.0 350 8291 E / 2 / 4 CN 25.179.4253.0 366 8292 / 15 CW 25.193.1553.0 338	8285 TOP V	25.751.0953.0	349	8291 D / 10 / 30 OB	25.181.6053.0	370	8292 / 13 OB	25.193.1353.0	338
8285 TOP V 25.751.1653.0 349 8291 D / 12 / 36 0B 25.181.6253.0 370 8292 / 14 ZW 0B 25.193.7453.0 339 8285 / 1 TOP H 25.751.0153.0 350 8291 E / 2 / 4 0B 25.179.0253.0 366 8292 / 15 25.192.1553.0 338 8285 / 1 TOP W 25.751.0053.0 349 8291 E / 2 / 4 0B 25.179.5253.0 366 8292 / 15 0B 25.193.1553.0 338 8285 / 2 TOP H 25.751.3253.0 350 8291 E / 2 / 4 ZN 25.179.4253.0 366 8292 / 15 ZW 0B 25.193.7553.0 339	8285 TOP V	25.751.1353.0	349	8291 D / 11 / 33 OB	25.181.6153.0	370	8292 / 14	25.192.1453.0	338
8285/ 1 TOP V 25.751.0053.0 349 8291 E / 2 / 4 OB 25.179.5253.0 366 8292 / 15 OB 25.193.1553.0 338 8285/ 2 TOP H 25.751.3253.0 350 8291 E / 2 / 4 ZN 25.179.4253.0 366 8292 / 15 ZW OB 25.193.7553.0 339	8285 TOP V	25.751.1653.0	349	8291 D / 12 / 36 OB	25.181.6253.0	370	8292 / 14 ZW OB	25.193.7453.0	339
	8285/ 1 TOP V	25.751.0053.0	349	8291 E / 2 / 4 OB	25.179.5253.0	366	8292 / 15 OB	25.193.1553.0	338

Type	Part no.	section / page	Туре	Part no.	section / page	Type	Part no.	section / page
8292 / 16 OB 8292 / 16 ZW OB 8292 DH / 2 OB 8292 DH / 3 OB 8292 E / 2 / 4 OB 8292 E / 3 / 6 OB 8292 E / 4 / 8 OB 8292 E / 4 / 8 OB 8292 E / 5 / 10 OB 8292 E / 6 / 12 8292 E / 7 / 14 8292 E / 10 / 20 8292 E / 11 / 22 8292 E / 11 / 20 8292 E / 10 / 2	25.193.1653.0 25.193.7653.0 27.000.4253.0 25.199.0253.0 25.199.0253.0 25.199.0253.0 25.199.0353.0 25.199.0353.0 25.199.0353.0 25.199.0533.0 25.199.0533.0 25.199.0553.0 25.199.0553.0 25.199.0553.0 25.199.0553.0 25.199.0553.0 25.199.0553.0 25.199.0553.0 25.199.0553.0 25.199.0553.0 25.199.0553.0 25.199.1053.0 25.300.0353.0 25.300.0353.0 25.300.0353.0 25.300.0353.0 25.324.2253.0 25.360.0453.0 25.324.2453.0 25.360.053.0 25.324.2453.0 25.360.0653.0 25.324.2653.0 25.324.	338 339 340 340 364 364 364 364 364 364 364 364 364 364	3313 S / 9 GF OB 3313 S / 9 W OB 3313 S / 10 G OB 3313 S / 10 G OB 3313 S / 10 G OB 3313 S / 10 W OB 3313 S / 10 W OB 3313 S / 11 W OB 3313 S / 11 G OB 3313 S / 11 W OB 3313 S / 12 G OB 3313 S / 12 W OB 3358 / 2 TOP V OB 3358 / 3 TOP V OB 3358 / 3 TOP V OB 3358 / 4 TOP H OB 3358 / 5 TOP H OB 3358 / 6 TOP H OB 3358 / 6 TOP H OB 3358 / 6 TOP H OB 3358 / 7 TOP V OB 3358 / 8 TOP W OB 3358 / 10 TOP H OB 3358 / 10 TOP H OB 3358 / 11 TOP W OB 3358 / 12 TOP W OB 3358 / 13 TOP W OB 3358 / 10 TOP H OB 3358 / 10 TOP W OB 3359 / 10 TOP W	25. 374. 6953.0 25. 374. 2953.0 25. 374. 2953.0 25. 374. 7053.0 25. 374. 7053.0 25. 374. 7053.0 25. 374. 7153.0 25. 374. 7153.0 25. 374. 7153.0 25. 374. 7153.0 25. 374. 7153.0 25. 374. 7253.0 25. 374. 3253.0 25. 374. 3253.0 25. 374. 3253.0 25. 374. 3253.0 25. 374. 3253.0 25. 372. 4253.0 25. 372. 4253.0 25. 782. 0253.0 25. 782. 0253.0 25. 782. 0253.0 25. 782. 0453.0 25. 782. 0453.0 25. 782. 0653.0 25. 782. 0653.0 25. 782. 0653.0 25. 782. 0653.0 25. 782. 0653.0 25. 782. 0753.0 25. 782. 0753.0 25. 782. 1053.0 25. 782. 1053.0 25. 782. 1053.0 25. 782. 1053.0 25. 782. 1153.	300 301 301 301 300 300 300 301 301 301	8413 B / 2 VR OB 8413 B / 3 F 8413 B / 3 F OB 8413 B / 3 F OB 8413 B / 3 F OB 8413 B / 3 VR OB 8413 B / 3 VR OB 8413 B / 4 VR OB 8413 B / 4 F OB 8413 B / 4 VR OB 8413 B / 5 VR OB 8413 B / 6 VR OB 8413 B / 7 VR	25.881.0253.0 25.880.0353.0 25.880.0353.0 25.880.0353.0 25.881.0353.0 25.881.0353.0 25.881.0453.0 25.881.0453.0 25.881.0453.0 25.881.0453.0 25.881.0453.0 25.881.0553.0 25.881.0553.0 25.881.0553.0 25.881.0553.0 25.881.0553.0 25.881.0553.0 25.881.0553.0 25.880.3653.0 25.881.0553.0 25.881.0553.0 25.881.0553.0 25.881.0553.0 25.881.0553.0 25.881.3553.0 25.881.3553.0 25.881.3553.0 25.881.3553.0 25.881.3553.0 25.881.3553.0	290 288 288 288 289 290 290 290 290 290 290 290 290 290 29

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Туре	Part no.	section / page	Туре	Part no.	section / page	Type	Part no.	section / page
8413 BFK / 8 TOP K F	25.881.0853.0	294	8485/ 6 TOP H	25.771.3653.0	352	8513 BFK/15 TOP	25.630.1553.0	281
8413 BFK / 8 TOP K F OB	25.881.3853.0	294	8486 / 3 TOP H OB	27.713.0353.0	356	8513 BFK/15 TOP OB	25.630.4553.0	281
8413 BFK / 9 TOP K	25.880.0953.0	294	8486 / 3 TOP V OB	27.703.0353.0	356	8513 BFK/16 TOP	25.630.1653.0	281
8413 BFK / 9 TOP K OB	25.880.3953.0	294	8486 / 4 TOP H OB	27.713.0453.0	356	8513 BFK/16 TOP OB	25.630.4653.0	281
8413 BFK / 9 TOP K F	25.881.0953.0	294	8486 / 4 TOP V OB	27.703.0453.0	356	8513 S / 2 G	25.646.0253.0	284
8413 BFK / 9 TOP K F OB	25.881.3953.0	294	8491 / 2	25.166.0253.0	346	8513 S / 2 G F	25.646.3253.0	285
8413 BFK /10 TOP K	25.880.1053.0	294	8491 / 2 OB	25.167.0253.0	346	8513 S / 2 W	25.647.0253.0	284
8413 BFK /10 TOP K OB	25.880.4053.0	294	8491 / 2 Z	25.166.3253.0	347	8513 S / 2 W F	25.647.3253.0	285
8413 BFK /10 TOP K F	25.881.1053.0	294	8491 / 2 Z OB	25.167.3253.0	346	8513 S / 3 G	25.646.0353.0	284
8413 BFK /10 TOP K F OB	25.881.4053.0	294	8491 / 2 ZN	25.176.0253.0	347	8513 S / 3 GF	25.646.3353.0	285
8413 BFK /11 TOP K	25.880.1153.0	294	8491 / 2 ZN OB	25.177.0253.0	346	8513 S / 3 W	25.647.0353.0	284
8413 BFK /11 TOP K OB	25.880.4153.0	294	8491 / 2 ZW	25.166.6253.0	347	8513 S / 3 WF	25.647.3353.0	285
8413 BFK /11 TOP K F	25.881.1153.0	294	8491 / 2 ZW OB	25.167.6253.0	347	8513 S / 4 G	25.646.0453.0	284
8413 BFK /11 TOP K F OB	25.881.4153.0	294	8491 / 3	25.166.0353.0	346	8513 S / 4 GF	25.646.3453.0	285
8413 BFK /12 TOP K 8413 BFK /12 TOP K OB	25.880.1253.0 25.880.4253.0	294 294 294	8491 / 3 OB 8491 / 3 Z	25.167.0353.0 25.166.3353.0	346 347	8513 S / 4 W 8513 S / 4 WF	25.647.0453.0 25.647.3453.0	284 285 284
8413 BFK /12 TOP K F 8413 BFK /12 TOP K F OB 8413 S / 2 G OB	25.881.1253.0 25.881.4253.0 25.390.3253.0	294	8491 / 3 Z OB 8491 / 3 ZN 8491 / 3 ZN OB	25.167.3353.0 25.176.0353.0 25.177.0353.0	346 347 346	8513 S / 5 G 8513 S / 5 GF 8513 S / 5 W	25.646.0553.0 25.646.3553.0 25.647.0553.0	285
8413 S / 2 GF OB 8413 S / 2 W OB	25.398.6253.0 25.392.3253.0	300 300 301	8491 / 3 ZW 8491 / 3 ZW 0B	25.177.0353.0 25.166.6353.0 25.167.6353.0	346 347 347	8513 S / 5 WF 8513 S / 6 G	25.647.3553.0 25.646.0653.0	284 285 284
8413 S / 2 WF OB	25.398.2253.0	301	8513 B / 2	25.640.0253.0	280	8513 S / 6 GF	25.646.3653.0	285
8413 S / 3 G OB	25.390.3353.0	300	8513 B / 2 F	25.641.0253.0	280	8513 S / 6 W	25.647.0653.0	284
8413 S / 3 GF OB	25.398.6353.0	300	8513 B / 2 F OB	25.641.3253.0	280	8513 S / 6 WF	25.647.3653.0	285
8413 S / 3 W OB	25.392.3353.0	301	8513 B / 2 OB	25.640.3253.0	280	8513 S / 7 G	25.646.0753.0	284
8413 S / 3 WF OB	25.398.2353.0	301	8513 B / 3	25.640.0353.0	280	8513 S / 7 GF	25.646.3753.0	285
8413 S / 4 G OB	25.390.3453.0	300	8513 B / 3 F	25.641.0353.0	280	8513 S / 7 W	25.647.0753.0	284
8413 S / 4 GF OB	25.398.6453.0	300	8513 B / 3 F OB	25.641.3353.0	280	8513 S / 7 WF	25.647.3753.0	285
8413 S / 4 W OB	25.392.3453.0	301	8513 B / 3 OB	25.640.3353.0	280	8513 S / 8 G	25.646.0853.0	284
8413 S / 4 WF OB	25.398.2453.0	301	8513 B / 4	25.640.0453.0	280	8513 S / 8 GF	25.646.3853.0	285
8413 S / 5 G OB	25.390.3553.0	300	8513 B / 4 F	25.641.0453.0	280	8513 S / 8 W	25.647.0853.0	284
8413 S / 5 GF OB	25.398.6553.0	300	8513 B / 4 F OB	25.641.3453.0	280	8513 S / 8 WF	25.647.3853.0	285
8413 S / 5 W OB	25.392.3553.0	301	8513 B / 4 OB	25.640.3453.0	280	8513 S / 9 G	25.646.0953.0	284
8413 S / 5 WF OB	25.398.2553.0	301	8513 B / 5	25.640.0553.0	280	8513 S / 9 GF	25.646.3953.0	285
8413 S / 6 G OB	25.390.3653.0	300	8513 B / 5 F	25.641.0553.0	280	8513 S / 9 W	25.647.0953.0	284
8413 S / 6 GF OB	25.398.6653.0	300	8513 B / 5 F OB	25.641.3553.0	280	8513 S / 9 WF	25.647.3953.0	285
8413 S / 6 W OB	25.392.3653.0	301	8513 B / 5 OB	25.640.3553.0	280	8513 S / 10 G	25.646.1053.0	284
8413 S / 6 WF OB	25.398.2653.0	301	8513 B / 6	25.640.0653.0	280	8513 S / 10 GF	25.646.4053.0	285
8413 S / 7 G OB	25.390.3753.0	300	8513 B / 6 F	25.641.0653.0	280	8513 S / 10 W	25.647.1053.0	284
8413 S / 7 GF OB	25.398.6753.0	300	8513 B / 6 F OB	25.641.3653.0	280	8513 S / 10 WF	25.647.4053.0	285
8413 S / 7 W OB	25.392.3753.0	301	8513 B / 6 OB	25.640.3653.0	280	8513 S / 11 G	25.646.1153.0	284
8413 S / 7 WF 0B	25.398.2753.0	301	8513 B / 7	25.640.0753.0	280	8513 S / 11 GF	25.646.4153.0	285
8413 S / 8 G 0B	25.390.3853.0	300	8513 B / 7 F	25.641.0753.0	280	8513 S / 11 W	25.647.1153.0	284
8413 S / 8 GF OB 8413 S / 8 W OB 8413 S / 8 WF OB	25.398.6853.0 25.392.3853.0 25.398.2853.0	300 301 301	8513 B / 7 F OB 8513 B / 7 OB	25.641.3753.0 25.640.3753.0	280 280 280	8513 S / 11 WF 8513 S / 12 G	25.647.4153.0 25.646.1253.0	285 284 285
8413 S / 9 G OB 8413 S / 9 G OB 8413 S / 9 GF OB	25.398.2853.0 25.390.3953.0 25.398.6953.0	300	8513 B / 8 8513 B / 8 F 8513 B / 8 F OB	25.640.0853.0 25.641.0853.0 25.641.3853.0	280	8513 S / 12 G F 8513 S / 12 W 8513 S / 12 W F	25.646.4253.0 25.647.1253.0 25.647.4253.0	285 284 285
8413 S / 9 W OB 8413 S / 9 WF OB	25.392.3953.0 25.398.2953.0 25.398.2953.0	300 301 301	8513 B / 8 OB 8513 B / 9	25.640.3853.0 25.640.0953.0	280 280 280	8513 S / 13 G 8513 S / 13 GF	25.646.1353.0 25.646.4353.0	284 285
8413 S / 10 G OB	25.390.4053.0	300	8513 B / 9 F	25.641.0953.0	280	8513 S / 13 WF	25.647.4353.0	285
8413 S / 10 GF OB	25.398.7053.0		8513 B / 9 F OB	25.641.3953.0	280	8513 S / 14 G	25.646.1453.0	284
8413 S / 10 W OB	25.392.4053.0	301	8513 B / 9 OB	25.640.3953.0	280	8513 S / 14 GF	25.646.4453.0	285
8413 S / 10 WF OB	25.398.3053.0	301	8513 B / 10	25.640.1053.0	280	8513 S / 14 W	25.647.1453.0	284
8413 S / 11 G OB	25.390.4153.0	300	8513 B / 10 F	25.641.1053.0	280	8513 S / 14 WF	25.647.4453.0	285
8413 S / 11 GF OB	25.398.7153.0	300	8513 B / 10 F 0B	25.641.4053.0	280	8513 S / 15 G	25.646.1553.0	284
8413 S / 11 W 0B	25.392.4153.0	301	8513 B / 10 OB	25.640.4053.0	280	8513 S / 15 GF	25.646.4553.0	285
8413 S / 11 WF 0B	25.398.3153.0	301	8513 B / 11	25.640.1153.0	280	8513 S / 15 W	25.647.1553.0	284
8413 S / 12 G OB	25.390.4253.0	300	8513 B / 11 F	25.641.1153.0	280	8513 S / 15 WF	25.647.4553.0	285
8413 S / 12 GF OB	25.398.7253.0	300	8513 B / 11 F 0B	25.641.4153.0	280	8513 S / 16 G	25.646.1653.0	284
8413 S / 12 W OB	25.392.4253.0	301	8513 B / 11 OB	25.640.4153.0	280	8513 S / 16 GF	25.646.4653.0	285
8413 S / 12 WF OB	25.398.3253.0	301	8513 B / 12	25.640.1253.0	280	8513 S / 16 W	25.647.1653.0	284
8458 / 2 TOP H OB	25.793.0253.0	354	8513 B / 12 F	25.641.1253.0	280	8513 S / 16 WF	25.647.4653.0	285
8458 / 2 TOP V OB	25.783.0253.0	354	8513 B / 12 F 0B	25.641.4253.0	280	8513 SUFK / 2 OB	25.642.3253.0	281
8458 / 3 TOP H OB 8458 / 3 TOP V OB	25.793.0353.0 25.783.0353.0	354 354 354	8513 B / 12 OB 8513 B / 13	25.640.4253.0 25.640.1353.0	280 280	8513 SUFK / 3 OB 8513 SUFK / 4 OB	25.642.3353.0 25.642.3453.0	281 281 281
8458 / 4 TOP H OB	25.793.0453.0	354	8513 B / 13 F	25.641.1353.0	280	8513 SUFK / 5 OB	25.642.3553.0	281
8458 / 4 TOP V OB	25.783.0453.0		8513 B / 13 F OB	25.641.4353.0	280	8513 SUFK / 6 OB	25.642.3653.0	281
8458 / 5 TOP H OB	25.793.0553.0		8513 B / 13 OB	25.640.4353.0	280	8513 SUFK / 7 OB	25.642.3753.0	281
8458 / 5 TOP V OB 8458 / 6 TOP H OB	25.783.0553.0 25.783.0553.0 25.793.0653.0	354 354 354	8513 B / 14 8513 B / 14 F	25.640.1453.0 25.641.1453.0	280 280 280	8513 SUFK / 7 OB 8513 SUFK / 8 OB 8513 SUFK / 9 OB	25.642.3853.0 25.642.3953.0	281 281 281
8458 / 6 TOP V OB 8458 / 7 TOP H OB	25.783.0653.0 25.793.0753.0	354 354	8513 B / 14 F 0B 8513 B / 14 0B	25.641.4453.0 25.640.4453.0	280 280 280	8513 SUFK / 10 OB 8513 SUFK / 11 OB	25.642.4053.0 25.642.4153.0	281 281
8458 / 7 TOP V OB	25.783.0753.0	354	8513 B / 15	25.640.1553.0	280	8513 SUFK / 12	25.642.1253.0	281
8458 / 8 TOP H OB	25.793.0853.0	354	8513 B / 15 F	25.641.1553.0	280	8513 SUFK / 12 OB	25.642.4253.0	281
8458 / 8 TOP V OB	25.783.0853.0	354	8513 B / 15 F 0B	25.641.4553.0	280	8520 B / 2 OB	25.470.0253.0	324
8458 / 9 TOP H OB	25.793.0953.0	354	8513 B / 15 0B	25.640.4553.0	280	8520 B / 3	25.470.3353.0	324
8458 / 9 TOP V OB	25.783.0953.0	354	8513 B / 16	25.640.1653.0	280	8520 B / 3 OB	25.470.0353.0	324
8458 / 10 TOP H OB	25.793.1053.0	354	8513 B / 16 F	25.641.1653.0	280	8520 B / 4 OB	25.470.0453.0	324
8458 / 10 TOP V OB 8458 / 11 TOP H OB	25.783.1053.0 25.793.1153.0	354 354 354	8513 B / 16 F OB 8513 B / 16 OB	25.641.4653.0 25.640.4653.0	280 280	8520 B / 5 OB 8520 B / 6 OB	25.470.0553.0 25.470.0653.0	324 324
8458 / 11 TOP V OB	25.783.1153.0	354	8513 BDK/10 TOP	25.630.1053.0	281	8520 B / 7	25.470.3753.0	324
8458 / 12 TOP H OB	25.793.1253.0	354	8513 BFK/ 2 TOP	25.630.0253.0	281	8520 B / 7 OB	25.470.0753.0	324
8458 / 12 TOP V OB	25.783.1253.0	354	8513 BFK/ 2 TOP OB	25.630.3253.0	281	8520 B / 8	25.470.3853.0	324
8458 / 13 TOP H OB	25.793.1353.0	354	8513 BFK/ 3 TOP	25.630.0353.0	281	8520 B / 8 OB	25.470.0853.0	324
8458 / 13 TOP V OB	25.783.1353.0	354	8513 BFK/ 3 TOP OB	25.630.3353.0	281	8520 B / 9 OB	25.470.0953.0	324
8458 / 14 TOP H OB	25.793.1453.0	354	8513 BFK/ 4 TOP	25.630.0453.0	281	8520 B / 10 OB	25.470.1053.0	324
8458 / 14 TOP V OB	25.783.1453.0	354	8513 BFK/ 4 TOP OB	25.630.3453.0	281	8520 B / 11	25.470.4153.0	324
8458 / 15 TOP H OB	25.793.1553.0	354	8513 BFK/ 5 TOP	25.630.0553.0	281	8520 B / 11 0B	25.470.1153.0	324
8458 / 15 TOP V OB 8458 / 16 TOP H OB 8458 / 16 TOP V OB	25.783.1553.0 25.793.1653.0	354 354 354	8513 BFK/ 5 TOP OB 8513 BFK/ 6 TOP 8513 BFK/ 6 TOP OB	25.630.3553.0 25.630.0653.0 25.630.3653.0	281 281	8520 B / 12 OB 8520 B / 13 8520 B / 13 OB	25.470.1253.0 25.470.4353.0	324 324
8438 / 16 TOP V OB	25.783.1653.0	352	8513 BFK/ 6 TOP OB	25.630.3653.0	281	8520 B / 13 0B	25.470.1353.0	324
8485 TOP H	25.771.3453.0		8513 BFK/ 7 TOP	25.630.0753.0	281	8520 B / 14	25.470.4453.0	324
8485 TOP H	25.771.3553.0		8513 BFK/ 7 TOP OB	25.630.3753.0	281	8520 B / 14 0B	25.470.1453.0	324
8485 TOP H 8485 TOP H	25.771.3553.0 25.771.3753.0 25.771.3853.0	■ 352 ■ 352 ■ 352	8513 BFK/ 8 TOP 8513 BFK/ 8 TOP OB	25.630.0853.0 25.630.3853.0	281 281 281	8520 B / 15 8520 B / 15 8520 B / 15 0B	25.470.1453.0 25.470.4553.0 25.470.1553.0	324 324 324
8485 TOP V 8485 TOP V	25.771.0653.0 25.771.0753.0	351 351	8513 BFK/ 9 TOP 8513 BFK/ 9 TOP OB	25.630.0953.0 25.630.3953.0	281 281	8520 B / 16 8520 B / 16 8520 B / 16 0B	25.470.4653.0 25.470.1653.0	324 324
8485 TOP V 8485/ 1 TOP H	25.771.0753.0 25.771.0853.0 25.771.0153.0	351 351 352	8513 BFK/10 TOP OB 8513 BFK/11 TOP	25.630.4053.0 25.630.1153.0	281 281 281	8520 BL / 2 W 0B 8520 BL / 3 G 0B	25.470.1033.0 25.471.0253.0 25.472.0353.0	325 325
8485/ 1 TOP V 8485/ 2 TOP H	25.771.0053.0 25.771.3253.0	351 352	8513 BFK/11 TOP OB 8513 BFK/12 TOP	25.630.4153.0 25.630.1253.0	281 281	8520 BL / 3 W 0B 8520 BL / 4 G 0B	25.471.0353.0 25.471.0353.0 25.472.0453.0	325 325
8485/ 2 TOP V	25.771.0253.0	351	8513 BFK/12 TOP OB	25.630.4253.0	281	8520 BL / 6 G OB	25.472.0653.0	325
8485/ 3 TOP H	25.771.3353.0	352	8513 BFK/13 TOP	25.630.1353.0	281	8520 BL / 6 W	25.471.3653.0	325
8485/ 3 TOP V	25.771.0353.0	351	8513 BFK/13 TOP OB	25.630.4353.0	281	8520 BL / 7 G	25.472.3753.0	325
8485/ 4 TOP V	25.771.0453.0	351	8513 BFK/14 TOP	25.630.1453.0	281	8520 BL / 7 G OB	25.472.0753.0	325
8485/ 5 TOP V	25.771.0553.0	351	8513 BFK/14 TOP OB	25.630.4453.0	281	8520 BL / 7 W	25.471.3753.0	325

Type	Part no.	section / page	Туре	Part no.	section / page	Туре	Part no.	section / page
8520 BL / 7 W 0B	25.471.0753.0	325	8593 / 14 OB	25.195.1453.0	■ 336	8813 B / 10 VR OB	25.622.4053.0	2 82
8520 BL / 11 G	25.472.4153.0	325	8593 / 15	25.194.1553.0	336	8813 B / 11	25.620.1153.0	280
8520 BL / 11 G OB	25.472.1153.0	325	8593 / 15 OB	25.195.1553.0	336	8813 B / 11 F	25.621.1153.0	280
8520 BL / 11 W	25.471.4153.0	325	8593 / 16	25.194.1653.0	336	8813 B / 11 F OB	25.621.4153.0	280
8520 BL / 11 W 0B	25.471.1153.0	325	8593 / 16 OB	25.195.1653.0	336	8813 B / 11 OB	25.620.4153.0	280
8520 BL / 13 G	25.472.4353.0	325	8813 B / 2	25.620.0253.0	280	8813 B / 11 VL	25.624.1153.0	282
8520 BL / 13 G OB	25.472.1353.0	325	8813 B / 2 F	25.621.0253.0	280	8813 B / 11 VL F	25.625.1153.0	283
8520 BL / 13 W 8520 BL / 13 W 0B	25.471.4353.0 25.471.1353.0	325	8813 B / 2 F OB 8813 B / 2 OB	25.621.3253.0 25.620.3253.0	280	8813 B / 11 VL F OB 8813 B / 11 VL OB	25.625.4153.0 25.624.4153.0	282
8520 BL / 14 G	25.472.4453.0	325	8813 B / 2 VL	25.624.0253.0	282	8813 B / 11 VR	25.622.1153.0	282
8520 BL / 14 G OB	25.472.1453.0	325	8813 B / 2 VL F	25.625.0253.0	283	8813 B / 11 VR F	25.623.1153.0	283
8520 BL / 14 W	25.471.4453.0	325	8813 B / 2 VL F OB	25.625.3253.0	283	8813 B / 11 VR F OB	25.623.4153.0	283
8520 BL / 14 W 0B	25.471.1453.0	325	8813 B / 2 VL OB	25.624.3253.0	282	8813 B / 11 VR OB	25.622.4153.0	282
8520 BL / 15 G	25.472.4553.0	325	8813 B / 2 VR	25.622.0253.0	282	8813 B / 12	25.620.1253.0 25.621.1253.0	280
8520 BL / 15 G OB 8520 BL / 15 W	25.472.1553.0 25.471.4553.0	325	8813 B / 2 VR F 8813 B / 2 VR F OB	25.623.0253.0 25.623.3253.0	283 283	8813 B / 12 F 8813 B / 12 F OB	25.621.4253.0	280
8520 BL / 15 W 0B	25.471.1553.0	325	8813 B / 2 VR OB	25.622.3253.0	282	8813 B / 12 OB	25.620.4253.0	280
8520 BL / 16 G	25.472.4653.0		8813 B / 3	25.620.0353.0	280	8813 B / 12 VL	25.624.1253.0	282
8520 BL / 16 W	25.471.4653.0	325	8813 B / 3 F	25.621.0353.0	280	8813 B / 12 VL F	25.625.1253.0	283
8520 S / 2 G 0,8	Z5.535.0225.0	324	8813 B / 3 F OB	25.621.3353.0	280	8813 B / 12 VL F OB	25.625.4253.0	283
8520 S / 2 G 1,0	Z5.535.3225.0	324	8813 B / 3 OB	25.620.3353.0	280	8813 B / 12 VL OB	25.624.4253.0	282
8520 S / 3 G 0,8	Z5.535.0325.0	324	8813 B / 3 VL	25.624.0353.0	282	8813 B / 12 VR	25.622.1253.0	282
8520 S / 3 G 1,0	Z5.535.3325.0	324	8813 B / 3 VL F	25.625.0353.0	283	8813 B / 12 VR F	25.623.1253.0	283
8520 S / 4 G 0,8	Z5.535.0425.0	324	8813 B / 3 VL F OB	25.625.3353.0	283	8813 B / 12 VR F OB	25.623.4253.0	283
8520 S / 4 G 1,0	Z5.535.3425.0	324	8813 B / 3 VL OB	25.624.3353.0	282	8813 B / 12 VR OB	25.622.4253.0	282
8520 S / 5 G 0,8	Z5.535.0525.0	324	8813 B / 3 VR F	25.623.0353.0	283	8813 B / 13	25.620.1353.0	280
8520 S / 5 G 1,0	Z5.535.3525.0	324	8813 B / 3 VR F OB	25.623.3353.0	283	8813 B / 13 F	25.621.1353.0	280
8520 S / 6 G 0,8	Z5.535.0625.0	324	8813 B / 3 VR OB	25.622.3353.0	282	8813 B / 13 F OB	25.621.4353.0	280
8520 S / 6 G 1,0	Z5.535.3625.0	324	8813 B / 4	25.620.0453.0	280	8813 B / 13 OB	25.620.4353.0	280
8520 S / 7 G 0,8	Z5.535.0725.0	324	8813 B / 4 F	25.621.0453.0	280	8813 B / 13 VL	25.624.1353.0	282
8520 S / 7 G 1,0	Z5.535.3725.0	324	8813 B / 4 F OB	25.621.3453.0	280	8813 B / 13 VL F	25.625.1353.0	283
8520 S / 8 G 0,8	Z5.535.0825.0	324	8813 B / 4 OB	25.620.3453.0	280	8813 B / 13 VL F OB	25.625.4353.0	283
8520 S / 8 G 1.0	Z5.535.3825.0	324	8813 B / 4 VL	25.624.0453.0	282	8813 B / 13 VL OB	25.624.4353.0	282
8520 S / 10 G 0,8	Z5.535.1025.0	324	8813 B / 4 VL F	25.625.0453.0	283	8813 B / 13 VR	25.622.1353.0	282
8520 S / 10 G 1,0	Z5.535.4025.0	324	8813 B / 4 VL F OB	25.625.3453.0	283	8813 B / 13 VR F	25.623.1353.0	283
8520 S / 11 G 0,8	Z5.535.1125.0	324	8813 B / 4 VL OB	25.624.3453.0	282	8813 B / 13 VR F OB	25.623.4353.0	283
8520 S / 11 G 1,0	Z5.535.4125.0	324	8813 B / 4 VR F	25.623.0453.0	283	8813 B / 14	25.620.1453.0	280
8520 S / 12 G 0,8	Z5.535.1225.0	324	8813 B / 4 VR F OB	25.623.3453.0	283	8813 B / 14 F	25.621.1453.0	280
8520 S / 12 G 1,0	Z5.535.4225.0	324	8813 B / 4 VR OB	25.622.3453.0	282	8813 B / 14 F 0B	25.621.4453.0	280
8520 S / 13 G 0,8	Z5.535.1325.0	324	8813 B / 5	25.620.0553.0	280	8813 B / 14 OB	25.620.4453.0	280
8520 S / 13 G 1,0	Z5.535.4325.0	324	8813 B / 5 F	25.621.0553.0	280	8813 B / 14 VL	25.624.1453.0	282
8520 S / 14 G 0,8	Z5.535.1425.0	324	8813 B / 5 F OB	25.621.3553.0	280	8813 B / 14 VL F	25.625.1453.0	283
8520 S / 14 G 1,0	Z5.535.4425.0	324	8813 B / 5 OB	25.620.3553.0	280	8813 B / 14 VL F OB	25.625.4453.0	283
8520 S / 15 G 0,8	Z5.535.1525.0	324	8813 B / 5 VL	25.624.0553.0	282	8813 B / 14 VL OB	25.624.4453.0	282
8520 S / 15 G 1,0	Z5.535.4525.0	324	8813 B / 5 VL F	25.625.0553.0	283	8813 B / 14 VR	25.622.1453.0	
8520 S / 16 G 0,8	Z5.535.1625.0	324	8813 B / 5 VL F OB	25.625.3553.0	283	8813 B / 14 VR F	25.623.1453.0	283
8520 S / 16 G 1,0	Z5.535.4625.0	324	8813 B / 5 VL OB	25.624.3553.0	282	8813 B / 14 VR F OB	25.623.4453.0	283
8543 / 2	25.600.5253.0	316	8813 B / 5 VR F	25.623.0553.0	283	8813 B / 14 VR OB	25.622.4453.0	282
8543 / 2 OB	25.602.5253.0	316	8813 B / 5 VR F OB	25.623.3553.0	283	8813 B / 15	25.620.1553.0	280
8543 / 3	25.600.5353.0	316	8813 B / 5 VR OB	25.622.3553.0	282	8813 B / 15 F	25.621.1553.0	280
8543 / 3 OB	25.602.5353.0	316	8813 B / 6	25.620.0653.0	280	8813 B / 15 F OB	25.621.4553.0	280
8543 / 4	25.600.5453.0	316	8813 B / 6 F	25.621.0653.0	280	8813 B / 15 OB	25.620.4553.0	280
8543 / 4 OB 8543 / 5	25.602.5453.0	316	8813 B / 6 F OB 8813 B / 6 OB	25.621.3653.0 25.620.3653.0	280 280	8813 B / 15 VL 8813 B / 15 VL F	25.624.1553.0 25.625.1553.0	282
8543 / 5 OB	25.600.5553.0 25.602.5553.0	316	8813 B / 6 VL	25.624.0653.0	282	8813 B / 15 VL F OB	25.625.4553.0	283
8543 / 6	25.600.5653.0	316	8813 B / 6 VL F	25.625.0653.0	283	8813 B / 15 VL OB	25.624.4553.0	282
8543 / 6 OB	25.602.5653.0	316	8813 B / 6 VL F OB	25.625.3653.0	283	8813 B / 15 VR	25.622.1553.0	282
8543 / 7	25.600.5753.0	316	8813 B / 6 VL OB	25.624.3653.0	282	8813 B / 15 VR F	25.623.1553.0	283
8543 / 7 OB	25.602.5753.0	316	8813 B / 6 VR	25.622.0653.0	282	8813 B / 15 VR F OB	25.623.4553.0	283
8543 / 8	25.600.5853.0	316	8813 B / 6 VR F	25.623.0653.0	283	8813 B / 15 VR OB	25.622.4553.0	282
8543 / 8 OB	25.602.5853.0	316	8813 B / 6 VR F OB	25.623.3653.0	283	8813 B / 16	25.620.1653.0	280
8543 / 9	25.600.5953.0	316	8813 B / 6 VR OB	25.622.3653.0	282	8813 B / 16 F	25.621.1653.0	280
8543 / 9 OB	25.602.5953.0	316	8813 B / 7	25.620.0753.0	280	8813 B / 16 F 0B	25.621.4653.0	280
8543 / 10	25.600.6053.0	316	8813 B / 7 F	25.621.0753.0	280	8813 B / 16 0B	25.620.4653.0	280
8543 / 10 OB	25.602.6053.0	■ 316	8813 B / 7 F OB	25.621.3753.0	280	8813 B / 16 VL	25.624.1653.0	282
8543 / 11	25.600.6153.0	■ 316	8813 B / 7 OB	25.620.3753.0	280	8813 B / 16 VL F	25.625.1653.0	283
8543 / 11 OB	25.602.6153.0	316	8813 B / 7 VL	25.624.0753.0	282	8813 B / 16 VL F OB	25.625.4653.0	283
8543 / 12	25.600.6253.0	316	8813 B / 7 VL F	25.625.0753.0	283	8813 B / 16 VL OB	25.624.4653.0	282
8543 / 12 OB	25.602.6253.0	316	8813 B / 7 VL F OB	25.625.3753.0	283	8813 B / 16 VR	25.622.1653.0	282
8543 / 13	25.600.6353.0	316	8813 B / 7 VL OB	25.624.3753.0	282	8813 B / 16 VR F OB	25.623.4653.0	283
8543 / 13 OB 8543 / 14	25.602.6353.0	316	8813 B / 7 VR F 8813 B / 7 VR F OB	25.623.0753.0 25.623.3753.0	283 283	8813 B / 16 VR OB 8813 B / 3 VR	25.622.4653.0 25.622.0353.0	282
8543 / 14 OB	25.600.6453.0 25.602.6453.0	316	8813 B / 7 VR OB	25.622.3753.0	282	8813 B / 4 VR	25.622.0453.0	282
8543 / 15 8543 / 15 OB	25.600.6553.0 25.602.6553.0	316 316 316	8813 B / 8 8813 B / 8 F	25.620.0853.0 25.621.0853.0	280 280	8813 B / 7 VR 8813 B / 9 VR	25.622.0753.0 25.622.0953.0	282 282
8543 / 16	25.600.6653.0	316	8813 B / 8 F OB	25.621.3853.0	280	8813 B/ 5 VR	25.622.0553.0	282
8543 / 16 OB	25.602.6653.0	316	8813 B / 8 OB	25.620.3853.0	280	8813 S / 2 G	25.626.0253.0	284
8591 V/ 10/40 VB1 OB	25.154.7053.0	373	8813 B / 8 VL	25.624.0853.0	282	8813 S / 2 GF	25.626.3253.0	285
8593 / 2	25.194.0253.0	336	8813 B / 8 VL F	25.625.0853.0	283	8813 S / 2 W	25.627.0253.0	284
8593 / 2 8593 / 2 OB 8593 / 2 ZN	25.195.0253.0 25.194.9253.0	336	8813 B / 8 VL F OB 8813 B / 8 VL OB	25.625.3853.0 25.624.3853.0	283	8813 S / 2 W 8813 S / 2 WF	25.627.3253.0 25.626.0353.0	285
8593 / 2 ZN OB	25.195.9253.0	336	8813 B / 8 VR	25.622.0853.0	282	8813 S / 3 G 8813 S / 3 GF	25.626.3353.0	285
8593 / 3	25.194.0353.0	336	8813 B / 8 VR F	25.623.0853.0	283	8813 S / 3 W	25.627.0353.0	284
8593 / 3 OB	25.195.0353.0	336	8813 B / 8 VR F OB	25.623.3853.0	283	8813 S / 3 WF	25.627.3353.0	285
8593 / 3 ZN	25.194.9353.0	336	8813 B / 8 VR OB	25.622.3853.0	282	8813 S / 4 G	25.626.0453.0	284
8593 / 3 ZN OB	25.195.9353.0	336	8813 B / 9	25.620.0953.0	280	8813 S / 4 GF	25.626.3453.0	285
8593 / 4	25.194.0453.0	336	8813 B / 9 F	25.621.0953.0	280	8813 S / 4 W	25.627.0453.0	284
8593 / 4 OB	25.195.0453.0	336	8813 B / 9 F OB	25.621.3953.0	280	8813 S / 4 WF	25.627.3453.0	285
8593 / 5	25.194.0553.0	336	8813 B / 9 OB 8813 B / 9 VL	25.620.3953.0	280 282	8813 S / 5 G 8813 S / 5 GF	25.626.0553.0	284
8593 / 6	25.195.0553.0 25.194.0653.0	336	8813 B / 9 VL F	25.624.0953.0 25.625.0953.0	283	8813 S / 5 W	25.626.3553.0 25.627.0553.0	285 284
8593 / 6 OB	25.195.0653.0	336	8813 B / 9 VL F OB	25.625.3953.0	283	8813 S / 5 WF	25.627.3553.0	285
8593 / 7	25.194.0753.0	336	8813 B / 9 VL OB	25.624.3953.0	282	8813 S / 6 G	25.626.0653.0	284
8593 / 7 OB	25.195.0753.0	336	8813 B / 9 VR F	25.623.0953.0	283	8813 S / 6 GF	25.626.3653.0	285
8593 / 8	25.194.0853.0	336	8813 B / 9 VR F OB	25.623.3953.0	283	8813 S / 6 W	25.627.0653.0	284
8593 / 8 OB 8593 / 9	25.195.0853.0 25.194.0953.0	336	8813 B / 9 VR OB 8813 B / 10	25.622.3953.0 25.620.1053.0	282	8813 S / 6 WF 8813 S / 7 G	25.627.3653.0 25.626.0753.0	285
8593 / 9 OB	25.195.0953.0	336	8813 B / 10 F	25.621.1053.0	280	8813 S / 7 GF	25.626.3753.0	285
8593 / 10	25.194.1053.0	336	8813 B / 10 F 0B	25.621.4053.0	280	8813 S / 7 W	25.627.0753.0	284
8593 / 10 OB	25.195.1053.0	336	8813 B / 10 0B	25.620.4053.0	280	8813 S / 7 WF	25.627.3753.0	285
8593 / 11	25.194.1153.0	■ 336	8813 B / 10 VL	25.624.1053.0	282	8813 S / 8 G	25.626.0853.0	284
8593 / 11 OB	25.195.1153.0	■ 336	8813 B / 10 VL F	25.625.1053.0	283	8813 S / 8 GF	25.626.3853.0	285
8593 / 12	25.194.1253.0	336	8813 B / 10 VL F OB	25.625.4053.0	283	8813 S / 8 W	25.627.0853.0	284
8593 / 12 OB	25.195.1253.0	336	8813 B / 10 VL OB	25.624.4053.0	282	8813 S / 8 WF	25.627.3853.0	285
8593 / 13	25.194.1353.0	336	8813 B / 10 VR	25.622.1053.0	282	8813 S / 9 G	25.626.0953.0	284
8593 / 13 OB	25.195.1353.0	336	8813 B / 10 VR F	25.623.1053.0	283	8813 S / 9 GF	25.626.3953.0	285
8593 / 13 OB 8593 / 14	25.194.1453.0	336	8813 B / 10 VR F OB	25.623.4053.0	283	8813 S / 9 W	25.627.0953.0	284

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Type		section / page	Туре		section / page		Fait IIO.	section / page
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8813 S / 10 W 8813 S / 10 WF	25.627.1053.0 25.627.4053.0 25.627.4053.0	284	9700 A / 6 S35 9700 A / 6 S35 BLAU 9700 A / 6 SL 2 S35	54.004.7553.0 54.004.7553.6 56.004.9053.0	190	9704 A / 4 B 9704 A / 4 B 9704 A / 4 B	04.841.1450.0 04.841.1450.0 04.841.1450.0	395
8813 S / 11 G 8813 S / 11 GF	25.626.1153.0 25.626.4153.0	285 284 285	9700 A / 8 ETK S35 9700 A / 8 ETK S35 9700 A / 8 S35	54.010.7753.0 54.010.7553.0	189 189	9704 A / 4 B 9704 A / 5 B 9704 A / 5 B	04.841.1450.0 04.841.1550.0 04.841.1550.0	395
8813 S / 11 W 8813 S / 11 WF	25.627.1153.0 25.627.4153.0 25.627.4153.0	284 285	9700 A / 8 S35 BLAU 9700 A / 8 SL 2 S35	54.010.7553.6 54.010.7553.6 56.010.9053.0	191 189	9704 A / 5 B 9704 A / 5 B	04.841.1550.0 04.841.1550.0 04.841.1550.0	181 598 791
8813 S / 12 G	25.626.1253.0	284	9700 A / 10 ETK S35	54.016.7753.0	189	9704 A / 6 B	04.841.1650.0	598
8813 S / 12 GF	25.626.4253.0	285	9700 A / 10 S35	54.016.7553.0	189	9704 A / 6 B	04.841.1650.0	791
8813 S / 12 W	25.627.1253.0	284	9700 A / 10 S35 BLAU	54.016.7553.6	191	9704 A / 6 B	04.841.1650.0	181
8813 S / 12 WF	25.627.4253.0	285	9700 A / 10 SL 2 S35	56.016.9053.0	189	9704 A / 6 B	04.841.1650.0	395
8813 S / 13 G	25.626.1353.0	284	9700 A / 12 S35	54.025.7553.0	191	9704 A / 7 B	04.841.1750.0	181
8813 S / 13 GF	25.626.4353.0	285	9700 A / 12 S35 BLAU	54.025.7553.6	191	9704 A / 7 B	04.841.1750.0	598
8813 S / 13 W	25.627.1353.0	284	9700 A / 16 PEN2 S35	56.035.9453.0	195	9704 A / 7 B	04.841.1750.0	791
8813 S / 13 WF	25.627.4353.0	285	9700 A / 16 S35	54.035.7553.0	189	9704 A / 7 B	04.841.1750.0	395
8813 S / 14 G	25.626.1453.0	284	9700 A / 16 S35 BLAU	54.035.7553.6	189	9704 A / 8 B	04.841.1850.0	791
8813 S / 14 GF	25.626.4453.0	285	9700 A / 16 SL 2 S35	56.035.9053.0	189	9704 A / 8 B	04.841.1850.0	181
8813 S / 14 W	25.627.1453.0	284	9700 A / 35 E S35	Z2.302.0621.0	111	9704 A / 8 B	04.841.1850.0	598
8813 S / 14 WF	25.627.4453.0	285	9700 B/30 SI E14/S32/V0	54.904.4055.0	129	9704 A / 8 B	04.841.1850.0	395
8813 S / 15 G	25.626.1553.0	284	9700 B/30 SI E14/S35/V0	56.904.4055.0	128	9704 A / 9 B	04.841.1950.0	181
8813 S / 15 GF	25.626.4553.0	285	9700 B/30 SI E18/S32/V0	54.925.4055.0	129	9704 A / 9 B	04.841.1950.0	598
8813 S / 15 W	25.627.1553.0	284	9700 B/30 SI E18/S35/V0	56.925.4055.0	128	9704 A / 9 B	04.841.1950.0	791
8813 S / 15 WF	25.627.4553.0	285	9701 / 6	07.310.3153.0	190	9704 A / 9 B	04.841.1950.0	395
8813 S / 16 G	25.626.1653.0	284	9701 / 6 BLAU	07.310.3153.6	190	9704 A /+ B	04.841.7450.0	395
8813 S / 16 GF 8813 S / 16 W	25.626.4653.0 25.627.1653.0	285 284	9701 / 6 ETK L 9701 / 6 SL	07.310.3133.6 07.310.4553.0 07.312.0053.0	193 194	9704 A /+ B 9704 A /+ B 9704 A /+ B	04.841.7450.0 04.841.7450.0 04.841.7450.0	395 599 181
8813 S / 16 WF 8813B / 13 VR OB	25.627.4653.0 25.622.4353.0	285 282	9701 / 8 9701 / 8 9701 / 8 BLAU	07.310.3253.0 07.310.3253.6	191 191	9704 A /+ B 9704 A /- B	04.841.7450.0 04.841.7550.0	791 181
8893 / 11	25.196.1153.0	336	9701 / 8 SL	07.312.0153.0	194	9704 A /- B	04.841.7550.0	599
8893 / 13	25.196.1353.0	336	9701 / 10	07.310.3953.0	191	9704 A /- B	04.841.7550.0	791
8893 / 14	25.196.1453.0	336	9701 / 10 BLAU	07.310.3953.6	191	9704 A /- B	04.841.7550.0	395
8893 / 15	25.196.1553.0	336	9701 / 10 SL	07.312.0253.0	195	9704 A /. B	04.841.7750.0	791
8893 / 2 OB	25.197.0253.0	336	9701 / 12	07.310.3353.0	191	9704 A /. B	04.841.7750.0	181
8893 / 2 ZN	25.196.9253.0	336	9701 / 12 BLAU	07.310.3353.6	191	9704 A /. B	04.841.7750.0	599
8893 / 2 ZN OB	25.197.9253.0	336	9701 / 16 SL	07.312.0353.0	189	9704 A /. B	04.841.7750.0	395
8893 / 3	25.196.0353.0	336	9701 A SH S35	01.112.1453.0	193	9704 A // B	04.841.7650.0	181
8893 / 3 OB	25.197.0353.0	336	9701 A/6 1S KO TP 2/V0	07.310.5855.0	141	9704 A // B	04.841.7650.0	599
8893 / 3 ZN	25.196.9353.0	336	9701 B / 8 ETK	07.310.5253.0	193	9704 A // B	04.841.7650.0	395
8893 / 3 ZN OB	25.197.9353.0	336	9701 B / 10 ETK	07.310.5353.0	193	9704 A // B	04.841.7650.0	791
8893 / 4	25.196.0453.0	336	9702 / 6	07.310.3453.0	190	9704 A /AG B	04.841.2250.0	395
8893 / 4 OB	25.197.0453.0	336	9702 / 6 BLAU	07.310.3453.6	190	9704 A /AG B	04.841.2250.0	598
8893 / 5	25.196.0553.0	336	9702 / 8	07.310.3553.0	191	9704 A /AG B	04.841.2250.0	791
8893 / 5 OB	25.197.0553.0	336	9702 / 8 BLAU	07.310.3553.6	191	9704 A /AK B	04.841.4850.0	599
8893 / 6	25.196.0653.0	336	9702 / 10	07.310.4053.0	191	9704 A /AK B	04.841.4850.0	395
8893 / 6 OB	25.197.0653.0	336	9702 / 10 BLAU	07.310.4053.6	191	9704 A /AK B	04.841.4850.0	791
8893 / 7 8893 / 7 OB	25.197.0053.0 25.196.0753.0 25.197.0753.0	336 336 336	9702 / 10 BLAU 9702 / 12 9702 / 12 BLAU	07.310.3653.0 07.310.3653.6 07.310.3653.6	191	9704 A /BG B 9704 A /BG B	04.841.2350.0 04.841.2350.0 04.841.2350.0	791 598 791
8893 / 8	25.196.0853.0	336	9703 / 5 M	Z7.215.0027.0	190	9704 A /BG B	04.841.2350.0	395
8893 / 8 OB	25.197.0853.0	336	9703 / 5- 2	Z7.215.0227.0	189	9704 A /BK B	04.841.4950.0	395
8893 / 9	25.196.0953.0	336	9703 / 5- 3	Z7.215.0327.0	190	9704 A /BK B	04.841.4950.0	791
8893 / 9 OB	25.197.0953.0	336	9703 / 5- 4	Z7.215.0427.0	190	9704 A /BK B	04.841.4950.0	599
8893 / 10	25.196.1053.0	336	9703 / 5- 5	Z7.215.0527.0	190	9704 A /CG B	04.841.2450.0	395
8893 / 10 OB	25.197.1053.0	336	9703 / 5- 6	Z7.215.0627.0	190	9704 A /CG B	04.841.2450.0	791
8893 / 11 OB	25.197.1153.0	336	9703 / 6 M-70	Z7.211.0027.0	72	9704 A /CG B	04.841.2450.0	598
8893 / 12	25.196.1253.0	336	9703 / 6- 2	Z7.211.0227.0	72	9704 A /CK B	04.841.5050.0	395
8893 / 12 OB	25.197.1253.0	336	9703 / 6-3	Z7.211.0327.0	86	9704 A /CK B	04.841.5050.0	599
8893 / 13 OB	25.197.1353.0	336	9703 / 6-4	Z7.211.0427.0	86	9704 A /CK B	04.841.5050.0	791
8893 / 14 OB	25.197.1453.0	336	9703 / 6- 5	Z7.211.0527.0	86	9704 A /DG B	04.841.2550.0	598
8893 / 15 OB	25.197.1553.0	336	9703 / 6- 6	Z7.211.0627.0	72	9704 A /DG B	04.841.2550.0	791
8893 / 16	25.196.1653.0	336	9703 / 8 M-50	Z7.212.0027.0	196	9704 A /DG B	04.841.2550.0	395
8893 / 16 OB 8893 / 2	25.196.1653.0 25.197.1653.0 25.196.0253.0	336 336 336	9703 / 8- 2 9703 / 8- 3	Z7.212.0027.0 Z7.212.0227.0 Z7.212.0327.0	191 191	9704 A /DK B 9704 A /DK B	04.841.5150.0 04.841.5150.0	599 791
9003 C	04.241.0651.0	584	9703 / 8- 4	Z7.212.0427.0	191	9704 A /DK B	04.841.5150.0	395
9003 C / 4	04.242.1050.0	394	9703 / 8- 5	Z7.212.0527.0	191	9704 A /EG B	04.841.2650.0	791
9003 C / 4	04.242.1050.0	584	9703 / 8- 6	Z7.212.0627.0	191	9704 A /EG B	04.841.2650.0	395
9003 C B	04.841.0651.0	584	9703 / 10 M	Z7.214.0027.0	196	9704 A /EG B	04.841.2650.0	598
9006 EN 60715 - G 32 9006 EN 60715 - G 32	98.190.0000.0 98.190.0000.0	802 584	9703 / 10- 2 9703 / 10- 3 9703 / 10- 4	Z7.214.0227.0 Z7.214.0327.0	189 191	9704 A /EK B 9704 A /EK B 9704 A /EK B	04.841.5250.0 04.841.5250.0	791 599
9006 EN 60715 - G 32 9006 AL 32	98.190.0000.0 98.210.0000.0	102 802	9703 / 10- 5	Z7.214.0427.0 Z7.214.0527.0	191 191	9704 A /FG B	04.841.5250.0 04.841.2750.0	395 598
9006 AL 32	98.210.0000.0	171	9703 / 10- 6	Z7.214.0627.0	191	9704 A /FG B	04.841.2750.0	791
9006 CU EN 60715 - G 32	98.220.0000.0	110	9703 / 12 M	Z7.213.0027.0	196	9704 A /FG B	04.841.2750.0	395
9006 CU EN 60715 - G 32	98.220.0000.0	802	9703 / 12- 2	Z7.213.0227.0	191	9704 A /FK B	04.841.5350.0	791
9006 GELOCHT	98.190.1000.0	171	9703 / 12- 3	Z7.213.0327.0	191	9704 A /FK B	04.841.5350.0	599
9006 GELOCHT 9011 A	98.190.1000.0 05.508.3121.0	802 191 101	9703 / 12- 4 9703 / 12- 5	Z7.213.0427.0 Z7.213.0527.0	191 191	9704 A /FK B 9704 A /GG B	04.841.5350.0 04.841.2850.0 04.841.2850.0	395 598
9011 B 9011 C 9011 D	05.508.3221.0 05.508.8821.0 05.508.8921.0	176 176	9703 / 12- 6 9703 / 16 M 9703 / 16- 2	Z7.213.0627.0 Z7.216.0027.0 Z7.216.0227.0	191 196 189	9704 A /GG B 9704 A /GG B 9704 A /GK B	04.841.2850.0 04.841.2850.0 04.841.5450.0	791 395 791
9012 9012 / 2.5 UB	Z7.269.0723.0 Z7.269.0623.0	176 197 161	9703 / 16- 2 9703 / 16- 3 9703 / 16- 4	Z7.216.0227.0 Z7.216.0327.0 Z7.216.0427.0	192 192	9704 A /GK B 9704 A /GK B 9704 A /GK B	04.841.5450.0 04.841.5450.0 04.841.5450.0	791 395 599
9012 / 6	Z7.269.0523.0	197	9703 / 16- 5	Z7.216.0527.0	192	9704 A /HG B	04.841.2950.0	791
9018 D	Z5.516.2511.0	169	9703 / 16- 6	Z7.216.0627.0	192	9704 A /HG B	04.841.2950.0	598
9018 H	Z5.516.2711.0	169	9704 A	04.241.1150.0	598	9704 A /HG B	04.841.2950.0	395
9018 N	Z5.516.2811.0	169	9704 A	04.241.1150.0	791	9704 A /HK B	04.841.5550.0	395
9021/15X5,5EN60715	98.090.0000.0	802	9704 A	04.241.1150.0	181	9704 A /HK B	04.841.5550.0	599
9021/15X5,5EN60715	98.090.0000.0	171	9704 A / 0 B	04.841.2050.0	791	9704 A /HK B	04.841.5550.0	791
9021/15X5,5EN60715	98.090.0015.0	40	9704 A / 0 B	04.841.2050.0	598	9704 A /IG B	04.841.3050.0	791
9021/15X5,5EN60715	98.090.0015.0	802	9704 A / 0 B	04.841.2050.0	395	9704 A /IG B	04.841.3050.0	598
9208 / S15	Z5.522.7553.0	40	9704 A / 0 B	04.841.2050.0	181	9704 A /IG B	04.841.3050.0	395
9215 - 2	Z7.210.3227.0	114	9704 A / 1 B	04.841.1150.0	598	9704 A /IK B	04.841.5650.0	791
9215 - 3	Z7.210.3327.0	114	9704 A / 1 B	04.841.1150.0	791	9704 A /IK B	04.841.5650.0	395
9215 - 4	Z7.210.3427.0	164	9704 A / 1 B	04.841.1150.0	181	9704 A /IK B	04.841.5650.0	599
9215 - 5	Z7.210.3527.0	164	9704 A / 1 B	04.841.1150.0	395	9704 A /JG B	04.841.3150.0	395
9215 - 6	Z7.210.3627.0	114	9704 A / 1-0 B	04.841.2150.0	598	9704 A /JG B	04.841.3150.0	598
9215 M-70	Z7.210.3027.0	164	9704 A / 1-0 B	04.841.2150.0	181	9704 A /JG B	04.841.3150.0	791
9222	Z5.522.5010.0	40	9704 A / 1-0 B	04.841.2150.0	791	9704 A /JK B	04.841.5750.0	395
9290 L	59.900.2052.0	220	9704 A / 1-0 B	04.841.2150.0	349	9704 A /JK B	04.841.5750.0	791
9290 L BLAU	59.900.2053.6	220	9704 A / 2 B	04.841.1250.0	181	9704 A /KG B	04.841.3250.0	791
9290 S	59.900.2552.0	220	9704 A / 2 B	04.841.1250.0	395	9704 A /KG B	04.841.3250.0	598
9526826 9526832	99.243.3564.7 99.239.3564.7	385 385	9704 A / 2 B 9704 A / 2 B 9704 A / 2 B	04.841.1250.0 04.841.1250.0 04.841.1250.0	598 791	9704 A /KG B 9704 A /KK B	04.841.3250.0 04.841.3250.0 04.841.5850.0	395 395
9526833	99.259.3564.7	385	9704 A / 3 B	04.841.1350.0	791	9704 A /KK B	04.841.5850.0	791
9700 / 10 E / 1	Z2.302.1321.0	211	9704 A / 3 B	04.841.1350.0	598	9704 A /LG B	04.841.3350.0	791
9700 A / 5 S35	54.003.7553.0	189	9704 A / 3 B	04.841.1350.0	395	9704 A /LG B	04.841.3350.0	598

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9704 A /LK B	04.841.5950.0	395	9705 A / 6,7/6-90GRAD	04.242.3053.0	790	9705A/8/10B L2	04.858.0553.0	201
9704 A /LK B	04.841.5950.0	791	9705 A / 6,7/6-90GRAD 5	04.242.3453.0	790	9705A/8/10B L3	04.858.0653.0	201
9704 A /MG B	04.841.3450.0	791	9705 A / 6,7/6-90GRAD 8	04.242.3553.0	790	9705A/8/10B N	04.858.3253.0	201
9704 A /MG B	04.841.3450.0	395	9705 A / 6,7/6-90GRAD12	04.242.3653.0	790	9705A/8/10B PE	04.858.0753.0	201
9704 A /MG B	04.841.3450.0	598	9705 A / 6.7/9-90GRAD 3	04.242.3353.0	790	9705A/8/10B SL	04.858.3153.0	201
9704 A /MK B	04.841.6050.0	599	9705 A / 7,5 / 10	04.242.7553.0	351	9705A/8/10B SLZ	04.858.0053.0	201
9704 A /MK B	04.841.6050.0	791	9705 A / 7,5 / 10 B	04.842.7553.0	351	9708	Z5.522.7053.0	102
9704 A /MK B	04.841.6050.0	395	9705 A / 8 / 10	04.242.8053.0	201	9708 / 2 S 35	Z5.522.8553.0	19
9704 A /NG B	04.841.3550.0	791	9705 A / 8 / 10 / 5 B	04.842.8553.0	91	9708 / 2 S 35	Z5.522.8553.0	410
9704 A /NG B	04.841.3550.0	395	9705 A / 8 / 10 B	04.842.8053.0	189	9708 / 2 S 35	Z5.522.8553.0	308
9704 A /NG B	04.841.3550.0	395	9705 A B	04.842.0850.0	588	9708 / 3 S35	Z5.523.5153.0	173
9704 A /NK B	04.841.6150.0		9705 A B	04.842.0850.0	90	9760 U/8 TKE 48 V/V0	57.110.1655.0	133
9704 A /NK B	04.841.6150.0	791	9705 A B	04.842.0850.0	321	9760 U/8 TKE 220 V/V0	57.110.1555.0	133
9704 A /NK B	04.841.6150.0	599	9705 A B	04.842.0850.0	790	9785U/1 KOHM-SPT/V0	57.904.4655.0	130
9704 A /OG B	04.841.3650.0	598	9705 A L / 5/ 10	04.242.5153.0	596	9785U/1 KOHM/V0	57.904.0655.0	130
9704 A /OG B	04.841.3650.0	791	9705 A L / 5/ 10	04.242.5153.0	790	9785U/10 KOHM-SPT/V0	57.904.4955.0	130
9704 A /OG B	04.841.3650.0	395	9705 A L / 5/10	04.242.5153.0	394	9785U/10 KOHM/V0	57.904.0955.0	130
9704 A /OK B	04.841.6250.0	599	9705 A L / 5/10	04.242.5153.0	91	9785U/10 OHM-SPT/V0	57.904.3955.0	130
9704 A /OK B	04.841.6250.0	395	9705 A L / 5/ 10 B	04.842.5153.0	790	9785U/10 OHM/V0	57.904.0055.0	130
9704 A /OK B	04.841.6250.0	791	9705 A L / 6/ 10	04.242.6353.0	91	9785U/100 OHM-SPT/V0	57.904.4355.0	130
9704 A /PG B	04.841.3750.0	395	9705 AL	04.242.1553.0	410	9785U/100 OHM/V0	57.904.0355.0	130
9704 A /PG B	04.841.3750.0	■ 791	9705 AL	04.242.1553.0	90	9785U/2 KOHM-SPT/V0	57.904.4755.0	130
9704 A /PG B	04.841.3750.0	■ 598	9705 AL	04.242.1553.0	394	9785U/2 KOHM/V0	57.904.0755.0	130
9704 A /PK B	04.841.6350.0	395	9705 AL	04.242.1553.0	790	9785U/20 KOHM-SPT/V0	57.904.5055.0	130
9704 A /PK B	04.841.6350.0	791	9705 AL B	04.842.1553.0	394	9785U/20 KOHM/V0	57.904.1055.0	130
9704 A /PK B	04.841.6350.0	599	9705 AL B	04.842.1553.0	596	9785U/20 OHM-SPT/V0	57.904.4155.0	130
9704 A /QG B	04.841.3850.0	598	9705 AL B	04.842.1553.0	790	9785U/20 OHM/V0	57.904.0155.0	130
9704 A /QG B	04.841.3850.0 04.841.3850.0	791 395	9705 AL B 9705 AL/ 5 /10/ 6MARCOM	04.842.1553.0 Z4.242.5153.0	90 442	9785U/200 OHM-SPT/V0	57.904.4455.0 57.904.0455.0	130 130
9704 A /QG B 9704 A /QK B	04.841.6450.0	791	9705 AL/ 5 /10/ 6MARCOM	Z4.242.5153.0	49	9785U/200 OHM/V0 9785U/5 KOHM-SPT/V0	57.904.4855.0	130
9704 A /QK B	04.841.6450.0	395	9705A/5/ 9 B 1- 9	04.842.4953.0	596	9785U/5 KOHM/V0	57.904.0855.0	130
9704 A /QK B	04.841.6450.0	599	9705A/5/ 9 B 1- 9	04.842.4953.0	394	9785U/50 KOHM-SPT/V0	57.904.5155.0	130
9704 A /RG B	04.841.3950.0	395	9705A/5/ 9 B 1- 9	04.842.4953.0	91	9785U/50 KOHM/V0	57.904.1155.0	130
9704 A /RG B	04.841.3950.0	598	9705A/5/10 B 1- 10	04.845.0153.0	91	9785U/50 OHM-SPT/V0	57.904.4255.0	130
9704 A /RG B	04.841.3950.0	791	9705A/5/10 B 11- 20	04.845.0253.0	91	9785U/50 OHM/V0	57.904.0255.0	130
9704 A /RK B	04.841.6550.0	395	9705A/5/10 B 21- 30	04.845.0353.0	91	9785U/500 OHM-SPT/V0	57.904.4555.0	130
9704 A /RK B	04.841.6550.0	791	9705A/5/10 B 31-40	04.845.0453.0	91	9785U/500 OHM/V0	57.904.0555.0	130
9704 A /RK B	04.841.6550.0	599	9705A/5/10 B 41- 50	04.845.0553.0	91	9786U/12/V0	57.904.2055.0	131
9704 A /SG B	04.841.4050.0	791	9705A/5/10 B 51- 60	04.845.0653.0	91	9786U/TSK CU-CUNI/V0	57.904.7355.0	132
9704 A /SG B	04.841.4050.0	598	9705A/5/10 B 61- 70	04.845.0753.0	91	9786U/TSK E-CU-A-CU/V0	57.904.7455.0	132
9704 A /SG B	04.841.4050.0	395	9705A/5/10 B 71- 80	04.845.0853.0	91	9786U/TSK FE-CUNI/V0	57.904.7155.0	132
9704 A /SK B	04.841.6650.0	395	9705A/5/10 B 81- 90	04.845.0953.0	91	9786U/TSK NICR-CUNI/VO	57.904.7055.0	132
9704 A /SK B	04.841.6650.0	791	9705A/5/10 B 91-100	04.845.1053.0	91	9786U/TSK NICR-NI/VO	57.904.7255.0	132
9704 A /SK B	04.841.6650.0	599	9705A/5/10 B +	04.855.0253.0	91	9813 M 10X 3 1000MM	98.290.0000.0	72
9704 A /TG B	04.841.4150.0	598	9705A/5/10 B + ROT	04.855.0253.5	120	9813 M SN 10X3 1000MM	98.290.1000.0	24
9704 A /TG B	04.841.4150.0	395	9705A/5/10 B -	04.855.0353.0	91	A BIS Z GB	04.841.9150.0	791
9704 A /TG B	04.841.4150.0	791	9705A/5/10 B - BLAU	04.855.0353.6	120	A BIS Z GB	04.841.9150.0	395
9704 A /TK B	04.841.6750.0	791	9705A/5/10B ERDZ	04.855.0153.0	91	A BIS Z GB	04.841.9150.0	181
9704 A /TK B	04.841.6750.0	395	9705A/5/10B F1	04.855.0953.0	91	A BIS Z KB	04.841.9250.0	395
9704 A /TK B	04.841.6750.0	599	9705A/5/10B F2	04.855.1053.0	91	A BIS Z KB	04.841.9250.0	181
9704 A /UG B	04.841.4250.0	395	9705A/5/10B L1	04.855.0453.0	91	A BIS Z KB	04.841.9250.0	791
9704 A /UG B	04.841.4250.0	598	9705A/5/10B L1L2L3NPE	04.855.0853.0	91	ABDECKG M WARNZCH	04.343.5356.8	105
9704 A /UG B	04.841.4250.0	791	9705A/5/10B L2	04.855.0553.0	91	ABDECKG M WARNZCH	04.343.5456.8	105
9704 A /UK B	04.841.6850.0	791	9705A/5/10B L3	04.855.0653.0	91	ABDECKG.M.WARNZCH	04.325.1056.0	189
9704 A /UK B	04.841.6850.0	395	9705A/5/10B N	04.855.3253.0	91	ABDECKG.M.WARNZCH	04.325.1156.0	189
9704 A /UK B	04.841.6850.0	599	9705A/5/10B PE	04.855.0753.0	91	ABDECKG.M.WARNZCH	04.325.1256.0	189
9704 A /VG B	04.841.4350.0	598	9705A/5/10B SL	04.855.3153.0	91	ABDECKG.M.WARNZCH	04.325.1356.0	191
9704 A /VG B	04.841.4350.0	791	9705A/5/10B SLZ	04.855.0053.0	91	ABDECKG.M.WARNZCH	04.325.1456.0	189
9704 A /VG B	04.841.4350.0	395	9705A/6,7/ 12	04.242.6753.0	790	ABDECKG.M.WARNZCH	04.325.1656.0	189
9704 A /VK B	04.841.6950.0	791	9705A/6,7/ 12 B	04.842.6753.0	790	ABDECKG.M.WARNZCH	04.343.4756.8	102
9704 A /VK B	04.841.6950.0	395	9705A/6,7/ 12 B 1- 9	99.000.0920.8	790	ABDECKG.M.WARNZCH	04.343.4856.8	69
9704 A /VK B	04.841.6950.0	599	9705A/6,7/ 12 B 1-10	99.003.0920.8	790	ABDECKG.M.WARNZCH	04.343.4956.8	103
9704 A /WG B	04.841.4450.0	395	9705A/6,7/2X 6 B 1- 6	99.002.0920.8	790	ABDECKG.M.WARNZCH	04.343.5056.8	103
9704 A /WG B	04.841.4450.0	791	9705A/6,7/2X12 B 1-16	99.004.0920.8	790	ABDECKG.M.WARNZCH	04.343.5156.8	104
9704 A /WG B	04.841.4450.0	598	9705A/6,7/2X12 B 1-24	99.005.0920.8	790	ABDECKG.M.WARNZCH	04.343.5256.8	105
9704 A /WK B	04.841.7050.0	599	9705A/6/ 9 B 1- 9	04.842.5953.0	91	ABDECKG.M.WARNZCH	04.343.9156.8	312
9704 A /WK B	04.841.7050.0	395	9705A/6/10 B 1-10	04.846.0153.0	91	ABDECKG.M.WARNZCH	04.343.9156.8	134
9704 A /WK B	04.841.7050.0	791	9705A/6/10 B 11-20	04.846.0253.0		ABDECKPLATTE 10	07.416.6953.0	784
9704 A /XG B	04.841.4550.0	395	9705A/6/10 B 21- 30	04.846.0353.0	91	ABDECKPLATTE 16	07.416.7053.0	784
9704 A /XG B	04.841.4550.0	598	9705A/6/10 B 31- 40	04.846.0453.0	91	ABDECKPLATTE 24	07.416.7153.0	784
9704 A /XG B	04.841.4550.0	791	9705A/6/10 B 41- 50	04.846.0553.0	91	ABDECKPLATTE 6	07.416.6853.0	784
9704 A /XK B	04.841.7150.0	395	9705A/6/10 B 51- 60	04.846.0653.0	91	ABDECKSTREIFEN	04.343.9056.8	312
9704 A /XK B	04.841.7150.0	791	9705A/6/10 B 61- 70	04.846.0753.0	91	ABDECKSTREIFEN	04.343.9056.8	134
9704 A /XK B	04.841.7150.0	599	9705A/6/10 B 71- 80	04.846.0853.0	91	ABDECKUNG	04.312.0554.0	584
9704 A /YG B	04.841.4650.0	598	9705A/6/10 B 81- 90	04.846.0953.0	91	ABDECKUNG	04.312.0654.0	584
9704 A /YG B	04.841.4650.0	791	9705A/6/10 B 91-100	04.846.1053.0	91	ABDECKUNG	04.312.2056.0	125
9704 A /YG B	04.841.4650.0	395	9705A/6/10 B ERDZ	04.856.0153.0	91	ABDECKUNG	04.312.3054.0	585
9704 A /YK B	04.841.7250.0	395	9705A/6/10 B L1	04.856.0453.0	19	ABDECKUNG	04.312.3254.0	587
9704 A /YK B	04.841.7250.0	599	9705A/6/10 B L2	04.856.0553.0	91	ABDECKUNG	04.312.3354.0	585
9704 A /YK B	04.841.7250.0	791	9705A/6/10 B L3	04.856.0653.0	91	ABDECKUNG	04.312.3454.0	586
9704 A /ZG B	04.841.4750.0	395	9705A/6/10 B SLZ	04.856.0053.0	91	ABDECKUNG	04.312.3554.0	587
9704 A /ZG B	04.841.4750.0	791	9705A/6/10B +	04.856.0253.0	91	ABDECKUNG	04.326.0056.0	152
9704 A /ZG B	04.841.4750.0	■ 598	9705A/6/10B -	04.856.0353.0	91	ABDECKUNG	04.326.1053.0	128
9704 A /ZK B	04.841.7350.0	■ 599	9705A/6/10B F1	04.856.0953.0	91	ABDECKUNG	04.343.6853.8	308
9704 A /ZK B	04.841.7350.0	791	9705A/6/10B F2	04.856.1053.0	91	ABDECKUNG	04.343.6853.8	36
9704 A /ZK B	04.841.7350.0	395	9705A/6/10B L1L2L3NPE	04.856.0853.0	91	ABDECKUNG	04.343.8353.8	33
9705 A	04.242.0850.0	588	9705A/6/10B N	04.856.3253.0	91	ABDECKUNG	Z7.409.5753.0	156
9705 A	04.242.0850.0	321	9705A/6/10B PE	04.856.0753.0	91	ABDECKUNG	Z7.409.5853.0	158
9705 A	04.242.0850.0	90	9705A/6/10B SL	04.856.3153.0	91	ABISOLIERZANGE	95.350.0100.0	799
9705 A	04.242.0850.0	790	9705A/8/ 9 B 1- 9	04.842.7953.0	201	ABSCHLUSSPL.M.BEZ	07.340.4153.0	152
9705 A / 4 W	04.242.2853.0	790	9705A/8/10 B 1- 10	04.848.0153.0	201	ABSCHLUSSPL.M.BEZ	07.340.4353.0	152
9705 A / 5 / 10	04.242.5053.0	349	9705A/8/10 B 11- 20	04.848.0253.0	201	ABSCHLUSSPLATTE	07.310.8453.0	584
9705 A / 5 / 10	04.242.5053.0	91	9705A/8/10 B 21- 30	04.848.0353.0	201	ABSCHLUSSPLATTE	07.310.8553.0	584
9705 A / 5 / 10	04.242.5053.0	596	9705A/8/10 B 31- 40	04.848.0453.0	201	ABSCHLUSSPLATTE	07.310.9653.0	591
9705 A / 5 / 10	04.242.5053.0	790	9705A/8/10 B 41- 50	04.848.0553.0	201	AD VB 2,5 GELB	04.326.2053.8	312
9705 A / 5 / 10 / 5 B	04.842.5553.0	596	9705A/8/10 B 51-60	04.848.0653.0	201	AD VB 2,5 GELB	04.326.2053.8	101
9705 A / 5 / 10 / 5 B	04.842.5553.0	394	9705A/8/10 B 61-70	04.848.0753.0	201	AD VB 4 GELB	04.326.2153.8	78
9705 A / 5 / 10 / 5 B	04.842.5553.0	55	9705A/8/10 B 71-80	04.848.0853.0	201 201 201	AD VB 4 / 15 GELB	04.326.2953.8	114
9705 A / 5 / 10 B 9705 A / 5 / 10 B	04.842.5053.0 04.842.5053.0	55	9705A/8/10 B 81- 90 9705A/8/10 B 91-100	04.848.0953.0 04.848.1053.0	201	AD VB 5/10 AD VB 5/10 GELB	04.342.0556.0 04.342.0556.8	120 116
9705 A / 5 / 10 B	04.842.5053.0	349	9705A/8/10B +	04.858.0253.0	201	AD VB 5 / 10 P GELB	04.342.3556.8	312
9705 A / 5 / 10 B	04.842.5053.0	596	9705A/8/10B -	04.858.0353.0	201	AD VB 5 / 10 P GELB	04.342.3556.8	102
9705 A / 5 /10/11MARCOM	Z4.242.5053.0	49	9705A/8/10B ERDZ	04.858.0153.0	201	AD VB 6 / 10 E GELB	04.342.2656.8	114
9705 A / 6 / 10	04.242.6053.0	91	9705A/8/10B F1	04.858.0953.0	201	AD VB 6 / 10 E P GELB	04.342.5656.8	174
9705 A / 6 / 10 / 5 B	04.842.6553.0	69	9705A/8/10B F2	04.858.1053.0	201	AD VB 6 GELB	04.326.2253.8	103
9705 A / 6 / 10 B	04.842.6053.0	69	9705A/8/10B L1	04.858.0453.0	201	AD VB 6/10 GELB	04.342.0656.8	112
3,00,1,0,100	5 7.0-2.0000.0		5, 55, 45/10D E1	3 4.000.0400.0			55-2.0050.0	- 112

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AD VB 6/10 P GELB	04.342.3656.8	103	ADA.I.GEH.ST.10WR	71.955.1053.3	■ 667	APF 2,5/D2 /8113	07.312.4153.0	308
AD VB 8/10 P GELB	04.342.3856.8	103	ADA.I.GEH.ST.10WR	71.955.1053.4	■ 667	APF 2,5/D2 /8113	07.312.4153.0	36
AD VB 10 GELB	04.326.2353.8	82	ADA.I.GEH.ST.10WR	71.975.1053.3	671	APF 2,5/d2/8113 BLAU	07.312.4153.6	36
AD VB 10/10 GELB	04.342.1056.8	78	ADA.I.GEH.ST.10WR	71.975.1053.4	671	APF 2,5/d2/8113 BLAU	07.312.4153.6	308
AD VB 10/10 P GELB	04.342.4056.8	103	ADA.I.GEH.ST.10WR	72.955.1053.0	669	APF 4 E	07.312.5753.0	30
AD VB 16 GELB AD VB 35 GELB	04.326.2453.8 04.326.2553.8	69 105	ADA.I.GEH.ST.10WR ADA.I.GEH.ST.16WL	77.955.1053.0 70.950.1653.3	669 667	APF 4 E GRUEN APF 4 NT	07.312.5753.7 07.312.5753.7 07.312.5653.0	31 24
AD VB 70 GELB	04.326.2653.8	105	ADA.I.GEH.ST.16WL	70.950.1653.4	■ 667	APF 4 TK	07.312.2853.0	38
AD VB WKM 2,5 / 15 GELB	04.326.3053.8	144	ADA.I.GEH.ST.16WL	71.950.1653.3	■ 667	APF 4 TK.	07.312.4353.0	
AD VM-1,5/8 SCHWARZ ADA.I.GEH. 3WR ADA.I.GEH.BU. 3WL	04.343.8053.0 70.965.0353.4 70.960.0353.3	45 671 671 671	ADA.I.GEH.ST.16WL ADA.I.GEH.ST.16WL ADA.I.GEH.ST.16WL	71.950.1653.4 72.950.1653.0 77.950.1653.0	667 669 669	APF4/D1/2 APF4/D1/2 BLAU APF4/D1/2 GRUEN	07.312.4853.0 07.312.4853.6 07.312.4853.7	27 27 29
ADA.I.GEH.BU. 3WL	70.960.0353.4	671	ADA.I.GEH.ST.16WR	70.955.1653.3	667	API 10 - 16 BLAU/V0	07.311.9455.6	78
ADA.I.GEH.BU. 3WL	71.960.0353.3		ADA.I.GEH.ST.16WR	70.955.1653.4	667	API 10 - 16 SL/V0	07.311.9555.0	82
ADA.I.GEH.BU. 3WL	71.960.0353.4	671	ADA.I.GEH.ST.16WR	71.955.1653.3	667	API 10 - 16/V0	07.311.9455.0	78
ADA.I.GEH.BU. 3WR	70.965.0353.3	671	ADA.I.GEH.ST.16WR	71.955.1653.4	667	API 10-16 ETK/1/V0	07.312.1955.0	80
ADA.I.GEH.BU. 3WR	71.965.0353.3	671	ADA.I.GEH.ST.16WR	72.955.1653.0	669	API 35 BLAU/V0	07.311.8855.6	79
ADA.I.GEH.BU. 3WR	71.965.0353.4	671	ADA.I.GEH.ST.16WR	72.955.1653.4	669	API 35/V0	07.311.8855.0	79
ADA.I.GEH.BU. 6WL	70.940.0653.3	667	ADA.I.GEH.ST.16WR	77.955.1653.0	669	API 4/2/V0	07.311.6555.0	69
ADA.I.GEH.BU. 6WL ADA.I.GEH.BU. 6WL ADA.I.GEH.BU. 6WL	70.960.0653.3 70.960.0653.4	671 671	ADA.I.GEH.ST.24WL ADA.I.GEH.ST.24WL ADA.I.GEH.ST.24WL	70.950.2453.3 70.950.2453.4	667 667 667	API 4/3/V0 APIF 2,5 APM 2,5 - 4 / 15	07.311.6855.0 07.311.8353.0 07.311.0853.0	74 58 145
ADA.I.GEH.BU. 6WL	71.960.0653.3	671	ADA.I.GEH.ST.24WL	71.950.2453.3	667	APM 2,5 - 4 / 15	07.311.0853.0	145
ADA.I.GEH.BU. 6WL	71.960.0653.4	671	ADA.I.GEH.ST.24WL	71.950.2453.4	667	APM 2,5 - 4 / 15 BLAU	07.311.0853.6	145
ADA.I.GEH.BU. 6WL	72.940.0653.0	669	ADA.I.GEH.ST.24WL	72.950.2453.0	669	APM 2,5 F. / 15	07.311.0653.0	144
ADA.I.GEH.BU. 6WR	70.945.0653.3	667	ADA.I.GEH.ST.24WL	77.950.2453.0	669	APM 4 SL / 15	07.311.0753.0	145
ADA.I.GEH.BU. 6WR	70.945.0653.4	667	ADA.I.GEH.ST.24WR	70.955.2453.3	667	APN 4ETK /V0	07.312.1155.0	106
ADA.I.GEH.BU. 6WR ADA.I.GEH.BU. 6WR ADA.I.GEH.BU. 6WR	70.965.0653.3 70.965.0653.4 71.965.0653.4	667 667 671 671 671 669	ADA.I.GEH.ST.24WR ADA.I.GEH.ST.24WR ADA.I.GEH.ST.24WR	70.955.2453.4 71.955.2453.3 71.955.2453.4	667 667 667	APN 10 /V0 APN 10 BL/V0 APN 10ETK /V0	07.311.6655.0 07.311.6655.6 07.312.0955.0	103 103 106
ADA.I.GEH.BU. 6WR ADA.I.GEH.BU.06WL	72.945.0653.0 70.940.0653.4	669 667	ADA.I.GEH.ST.24WR ADA.I.GEH.ST.24WR	72.955.2453.0 77.955.2453.0	669 669	APN 16 /V0 APN 16 BL/V0	07.312.0353.0 07.311.6755.0 07.311.6755.6	104 104
ADA.I.GEH.BU.10WL	70.940.1053.3	■ 667	ADA.I:GEH.ST. 3WL	70.970.0353.4	671	APN 16ETK /V0	07.312.0855.0	107
ADA.I.GEH.BU.10WL	70.940.1053.4	■ 667	ADC 2,5 GELB	04.344.0353.8	231	APN2,5E	07.312.1755.0	116
ADA.I.GEH.BU.10WL	70.960.1053.3	671	ADF 2,5/4 GELB	04.343.6053.8	308	AUSDRUECKWERKZEUG	05.502.0200.0	207
ADA.I.GEH.BU.10WL	70.960.1053.4	671	ADF 2,5/4 GELB	04.343.6053.8	20	B EXP.BOARD WEG 6 POL	Z8.000.0123.1	592
ADA.I.GEH.BU.10WL	70.965.1053.4	671	ADF 4/4 GELB	04.343.6153.8	19	BEF.HALTER	05.522.7356.0	331
ADA.I.GEH.BU.10WL	71.940.1053.3	667	ADF 6/4 GELB	04.343.6253.8	21	BEF.HALTER	05.522.7756.0	331
ADA.I.GEH.BU.10WL	71.940.1053.4		ADF10/4 GELB	04.343.6453.8	21	BEF.HALTER	05.522.7856.0	331
ADA.I.GEH.BU.10WL ADA.I.GEH.BU.10WL ADA.I.GEH.BU.10WL	71.960.1053.3 71.960.1053.4 72.940.1053.0	667 671 671 669 669 667	ADF16/4 GELB AEI 1,5Z-N AKB 10 V / 20MA	04.343.6653.8 05.599.2027.0 57.806.0053.0	21 797 504	BEF.HALTER BEF.HALTER BEF.HALTER	05.593.8853.0 05.599.2853.0 05.599.2953.0	331 331 331
ADA.I.GEH.BU.10WL	77.940.1053.0	669	AKB 10 V /4-20MA	57.806.1553.0	504	BEF.HALTER	Z5.523.2453.0	297
ADA.I.GEH.BU.10WR	70.945.1053.3	667	AKB 20MA / 10 V	57.806.0253.0	504	BEF.HALTER	Z5.523.7753.0	295
ADA.I.GEH.BU.10WR	70.945.1053.4	667	AKB 4-20MA / 10 V	57.806.0353.0	504	BEF.HALTER	Z5.523.7853.0	295
ADA.I.GEH.BU.10WR	70.965.1053.3	671	AKT 10 V /4-20MA	57.806.0953.0	505	BEFEST.HALT.KOMPL	Z5.523.7653.0	319
ADA.I.GEH.BU.10WR	71.945.1053.3	667	AKT 10 V / 20MA	57.806.0653.0	505	BEZSCHILD	04.240.0953.0	392
ADA.I.GEH.BU.10WR ADA.I.GEH.BU.10WR	71.945.1053.4 71.945.1053.4 71.965.1053.4	667 671	AKT 20MA / 10 V AKT 20MA / 20MA	57.806.0053.0 57.806.0753.0 57.806.1153.0	505 505 505	BEZ.BLATT PERF. BEZ.BLATT PERF.	04.240.0953.0 04.019.0289.0 04.019.0889.0	47 183
ADA.I.GEH.BU.10WR	72.945.1053.0	■ 669	AKT 20MA /4-20MA	57.806.1253.0	505	BEZ.KLAPPSCHILD	04.210.0652.0	183
ADA.I.GEH.BU.10WR	77.945.1053.0	■ 669	AKT 0-10 V /-+10 V	57.806.2653.0	505	BEZ.KLAPPSCHILD	04.210.0752.0	183
ADA.I.GEH.BU.16WL	70.940.1653.3	667	AKT 0-20MA /-+10 V	57.806.2753.0	505	BEZ.KLAPPSCHILD	Z4.210.0652.0	183
ADA.I.GEH.BU.16WL	70.940.1653.4	667	AKT 4-20MA / 10 V	57.806.0853.0	505	BEZ.KLAPPSCHILD	Z4.210.1652.0	183
ADA.I.GEH.BU.16WL	71.940.1653.3	667	AKT 4-20MA / 20MA	57.806.1353.0	505	BEZ.PLATTE	04.249.1053.0	499
ADA.I.GEH.BU.16WL	71.940.1653.4	667	AKT 4-20MA /-+10 V	57.806.5553.0	505	BEZ.PLATTE	04.249.1553.0	499
ADA.I.GEH.BU.16WL	72.940.1653.0	669	AKT +- 10 V /+-10 V	57.806.1053.0	505	BEZ.PLATTE	04.249.2053.0	499
ADA.I.GEH.BU.16WL	77.940.1653.0	669	AKT -+ 10 V /0-10 V	57.806.2253.0	505	BEZ.PLATTE	04.249.4053.0	499
ADA.I.GEH.BU.16WR	70.945.1653.3	667	AKT -+ 10 V /4-20MA	57.806.2153.0	505	BEZ.PLATTE	07.340.2153.0	152
ADA.I.GEH.BU.16WR	70.945.1653.4	667	AM 5 X 12 D 933SZMS	06.065.0021.0	156	BEZ.PLATTE	07.340.2353.0	152
ADA.I.GEH.BU.16WR	71.945.1653.3	667	ANKERSCHIENE 2M	98.400.0000.0	210	BEZ.SCHILDTRAEGER	04.242.3853.0	781
ADA.I.GEH.BU.16WR	71.945.1653.4		AP 2,5 - 4 /V0	07.311.0155.0	78	BEZ.SCHILDTRAEGER	04.242.4253.0	349
ADA.I.GEH.BU.16WR	72.945.1653.0	669	AP 2,5 - 4 BL/V0	07.311.0155.6	78	BEZ.SCHILDTRAEGER	04.242.4453.0	781
ADA.I.GEH.BU.16WR	77.945.1653.0	669	AP 2,5 U/8113 S/V /V0	07.312.1555.0	136	BEZ.SCHILDTRAEGER	04.242.4653.0	357
ADA.I.GEH.BU.24WL	70.940.2453.3	667	AP 2,5 U/8113 S/V /V0	07.312.1555.0	310	BEZ.SCHILDTRAEGER	04.242.5853.0	349
ADA.I.GEH.BU.24WL	70.940.2453.4	667	AP 4 TK /V0	07.311.6155.0	122	BEZ.SCHILDTRAEGER	Z4.242.3753.0	781
ADA.I.GEH.BU.24WL	71.940.2453.3	667	AP 4 TK BL /V0	07.311.6155.6	123	BEZ.SCHILDTRAEGER	Z4.242.4053.0	781
ADA.I.GEH.BU.24WL	71.940.2453.4	667	AP 6 /V0	07.311.0255.0	103	BEZEICHNUNGS-COMPUTER	95.502.0000.0	90
ADA.I.GEH.BU.24WL	72.940.2453.0	669	AP 6 BL/V0	07.311.0255.6	103	BGL-25VAC-2,5ADC	81.000.1000.0	526
ADA.I.GEH.BU.24WL	77.940.2453.0	669	AP 1 - 2,5	07.312.5053.0	232	BGL-40VAC-3ADC	87.230.2053.0	526
ADA.I.GEH.BU.24WR	70.945.2453.3	667	AP 1 - 2,5 BLAU	07.312.5053.6	232	BK M 8 / 32	32.640.0042.0	152
ADA.I.GEH.BU.24WR	70.945.2453.4	667	AP 1 - 2.5 GBUEN	07.312.5053.7	233	BK M 10 / 32	32.650.0042.0	153
ADA.I.GEH.BU.24WR ADA.I.GEH.BU.24WR	71.945.2453.3 71.945.2453.4	667 667	AP 1 - 2,5 GRUEN AP 10/SI /V0 AP 2,5 U/8113 S/V BL/V0	07.311.4155.0 07.312.1555.6 07.311.9055.0	125 137	BK M 6 / 32 BU 70,3 /24 REV	32.630.0042.0 Z5.570.1356.0	152 675
ADA.I.GEH.BU.24WR	72.945.2453.0	■ 669	AP 2,5 U/D/8113 S/V/V0	07.311.9055.0	134	BU 70.1 / 6 REV WL	Z5.572.0156.0	675
ADA.I.GEH.BU.24WR	77.945.2453.0	■ 669	AP 2,5 U/D/8113 S/V/V0	07.311.9055.0	312	BU 70.1 / 6 REV WR	Z5.572.1156.0	675
ADA.I.GEH.ST. 3WL	70.970.0353.3	■ 671	AP 2,5-4 KO/V0	07.310.9355.0	120	BU 70.1 / 6 REV U WL	Z5.572.4156.0	675
ADA.I.GEH.ST. 3WL ADA.I.GEH.ST. 3WR	71.970.0353.4 70.975.0353.3	671 671 671	AP 2,5U/8113/V0 AP 2,5U/8113/V0	07.312.4655.0 07.312.4655.0	120 136 310	BU 70.1 / 6 REV U WR BU 70.1 / 6 RV WL	Z5.572.4156.0 Z5.572.5156.0 Z5.572.2156.0	■ 675 ■ 675 ■ 675
ADA.I.GEH.ST. 3WR	70.975.0353.4	671	AP 2,5U/8113S/H/V0	07.311.9855.0	311	BU 70.1 / 6 RV WR	Z5.572.3156.0	675
ADA.I.GEH.ST. 3WR	71.975.0353.4	671	AP 3 S / IW/V0	07.311.4555.0	140	BU 70.1 / 6 RV U WL	Z5.572.6156.0	675
ADA.I.GEH.ST. 6WL	70.950.0653.3	667	AP 3 S/V0	07.311.4455.0	140	BU 70.1 / 6 RV U WR	Z5.572.7156.0	■ 675
ADA.I.GEH.ST. 6WL	70.970.0653.3	671	AP 4 3S 1K / V0	07.311.3855.0	138	BU 70.1 /10 REV WL	Z5.572.0256.0	■ 675
ADA.I.GEH.ST. 6WL	70.970.0653.4	671	AP 4 E /V0	07.311.4055.0	114	BU 70.1 /10 REV WR	Z5.572.1256.0	■ 675
ADA.I.GEH.ST. 6WL	71.970.0653.3	671	AP 4 S / IW/V0	07.311.4355.0	141	BU 70.1 /10 REV U WL	Z5.572.4256.0	675
ADA.I.GEH.ST. 6WL	71.970.0653.4	671	AP 4 S/V0	07.311.4255.0	141	BU 70.1 /10 REV U WR	Z5.572.5256.0	675
ADA.I.GEH.ST. 6WL	72.950.0653.0	669	AP 4/D /V0	07.311.6355.0	112	BU 70.1 /10 RV WL	Z5.572.2256.0	675
ADA.I.GEH.ST. 6WR	70.955.0653.3	667	AP 4/D BL /V0	07.311.6355.6	112	BU 70.1 /10 RV WR	Z5.572.3256.0	675
ADA.I.GEH.ST. 6WR	70.955.0653.4	667	AP 5 S/V0	07.311.4655.0	139	BU 70.1 /10 RV U WL	Z5.572.6256.0	675
ADA.I.GEH.ST. 6WR ADA.I.GEH.ST. 6WR	70.975.0653.3 70.975.0653.4	667 671 671	AP 8113 SE AP 8185 TOP N	07.310.9853.0 07.300.4753.0	139 303 349	BU 70.1 /10 RV U WR BU 70.1 /16 REV WL BU 70.1 /16 REV WR	Z5.572.0256.0 Z5.572.7256.0 Z5.572.0056.0	■ 675 ■ 675 ■ 675
ADA.I.GEH.ST. 6WR	71.975.0653.3	671	AP2,5U/D/8113 S/V BL/V0	07.311.9055.6	313	BU 70.1 /16 REV U WL	Z5.572.1056.0	675
ADA.I.GEH.ST. 6WR	71.975.0653.4	671	AP4 /D1 /2 /V0	07.311.6455.0	112		Z5.572.4056.0	675
ADA.I.GEH.ST. 6WR	72.955.0653.0	669	APC 1-2,5 D 2./E. BLAU	07.312.5453.6	236	BU 70.1 /16 REV U WR	Z5.572.5056.0	675
ADA.I.GEH.ST.06WL	70.950.0653.4	667	APC 1-2,5 D 2./E. GRUEN	07.312.5453.7	237	BU 70.1 /16 RV WL	Z5.572.2056.0	675
ADA.I.GEH.ST.10WL	70.950.1053.3	667	APC 1-2,5 D./TK.	07.312.5253.0	234	BU 70.1 /16 RV WR	Z5.572.3056.0	675
ADA.I.GEH.ST.10WL	70.950.1053.4	667	APC 1-2,5 D./TK. BLAU	07.312.5253.6	234	BU 70.1 /16 RV U WL	Z5.572.6056.0	675
ADA.I.GEH.ST.10WL	70.970.1053.3	671	APC 1-2,5 D./TK.GRUEN	07.312.5253.7	235	BU 70.1 /16 RV U WR	Z5.572.7056.0	675
ADA.I.GEH.ST.10WL	70.970.1053.4	671	APC 1-2,5 D2./E.	07.312.5453.0	231	BU 70.1 /24 REV WL	Z5.572.0356.0	■ 675
ADA.I.GEH.ST.10WL	71.950.1053.3	667	APF 1,5 E	07.312.3553.0	33	BU 70.1 /24 REV WR	Z5.572.1356.0	■ 675
ADA.I.GEH.ST.10WL	71.950.1053.4	667	APF 2,5 - 4	07.312.2153.0	20	BU 70.1 /24 REV U WL	Z5.572.4356.0	■ 675
ADA.I.GEH.ST.10WL	71.970.1053.3	671	APF 2,5 - 4 BLAU	07.312.2153.6	20	BU 70.1 /24 REV U WR	Z5.572.5356.0	675
ADA.I.GEH.ST.10WL	71.970.1053.4	671	APF 2,5 - 4 GRUEN	07.312.2153.7	22	BU 70.1 /24 RV WL	Z5.572.2356.0	675
ADA.I.GEH.ST.10WL	72.950.1053.0	669	APF 2,5/D 1/2	07.312.2353.0	26	BU 70.1 /24 RV WR	Z5.572.3356.0	■ 675
ADA.I.GEH.ST.10WL	77.950.1053.0	669	APF 2,5/D 1/2 BLAU	07.312.2353.6	26	BU 70.1 /24 RV U WL	Z5.572.6356.0	■ 675
ADA.I.GEH.ST.10WR	70.955.1053.3	667	APF 2,5/D 1/2 GRUEN	07.312.2353.7	28	BU 70.1 /24 RV U WR	Z5.572.7356.0	■ 675
ADA.I.GEH.ST.10WR	70.955.1053.4	667	APF 2,5/D 2/2	07.312.2553.0	26	BU 70.3 / 6 REV	Z5.570.1156.0	675
ADA.I.GEH.ST.10WR	70.975.1053.3	671	APF 2,5/D 2/2 BLAU	07.312.2553.6	26	BU 70.3 / 6 REVZ	Z5.570.0156.0	675
ADA.I.GEH.ST.10WR	70.975.1053.4	■ 671	APF 2,5/D 2/2 GRUEN	07.312.2553.7	28	BU 70.3 / 6 RV	Z5.570.3156.0	■ 675

Туре	Part no.	section / page	Type	Part no.	section / page	Type	Part no.	section / page
BU 70.3 / 16 RVZ BU 70.3 / 10 REV BU 70.3 / 16 REVZ BU 70.7 / 16 REVZ BU 70.7 / 16 REVZ BU 70.7 / 10 REVZ BU 70.7 / 16 REVZ BU 70.1 / 16 REVZ BU 70.2 1 / 10	Part no. 25. 570. 2156.0 25. 570. 1256.0 25. 570. 1256.0 25. 570. 3256.0 25. 570. 2056.0 25. 570. 2056.0 25. 570. 2056.0 25. 570. 3056.0 25. 570. 3056.0 25. 570. 3056.0 25. 570. 3056.0 25. 570. 3056.0 25. 570. 3356.0 25. 570. 3356.0 25. 570. 4156.0 25. 570. 4156.0 25. 570. 4156.0 25. 570. 4156.0 25. 570. 4566.0 25. 572. 26666.0 25. 572. 26666.0 25. 572. 26666.0 25. 572. 26666.0 25. 572. 27666.0 25. 5	section / page 675 675 675 675 675 675 675 675 675 67	## BU 73.1 /64 RV UWR BU 73.7 /40 RV BU 73.7 /64 RV BU FIG. ANL. BU EIG. ANL. BU EINSATZ 660 BU EINSATZ BU EINSATZ 67 BU EINSATZ BU	Part no. 25.572.9856.0 25.570.056.0 25.570.056.0 25.570.056.0 25.570.056.0 25.570.9056.0 25.570.9056.0 25.570.9156.0 25.570.9156.0 25.570.9156.0 25.570.9156.0 25.570.9156.0 25.570.9156.0 25.570.9156.0 25.570.9156.0 25.570.9156.0 25.570.9156.0 25.570.9156.0 25.570.9156.0 25.570.9156.0 25.570.9156.0 27.300.1653.9 27.300.1653.9 27.300.1653.0 27.200.1653.0 27.200.1653.0 27.200.1653.0 27.200.1603.0 27.200.1603.0 27.200.1603.0 27.200.1603.0 27.200.1603.0 27.200.1603.0 27.200.1604.0 27.200.1604.0 27.200.1104.0 27.200.2200.3 27.200.2200.3 27.200.2203.3 27.200.2203.3 27.200.2203.3 27.200.2203.3 27.200.2203.3 27.200.2203.3 27.200.2203.3 27.200.200.653.0 27.300.6640.0 27.300.1640.0 27.300.1640.0 27.300.1640.0 27.300.1640.0 27.300.1653.0 27.300.1653.0 27.500.1653.0 27.500.1653.0 27.500.1653.0 27.500.1653.0 27.700.1658.0 27.700.1658.0 27.700.1658.0 27.700.1658.0 27.200.1653.0 27.300.1653.0 27.300.1653.0 27.300.1653.0 27.300.1653.0 27.300.1653.0 27.300.1653.0 27.300.1653.0 27.300.1653.0 27.300.1653.0 27.300.1653.0 27.300.1653.0 27.300.1653.0 27.300.1653.0 27.300.1653.0 27.300.1653.0 27.300.1653.0 27.300.1653.0 27.300.1658.0 27.200.	section / page 683 683 683 683 683 683 683 683 683 68	Type BZ KL 16 / 6 Z BZ KL 16 / 8 Z BZ KL 16 / 16 Z BZ KL 16 / 10 Z BZ KL 16 / 20 Z BZ KL 28 / 1 - 99 BZ KL 29 / 1 - 95 CEMOS-SSAC3-400V-24 CEMOS-SSAC3-400V-24 CEMOS-SSPIC-400V-2,5A CODIERAST BULIST. CODIERAST BULIST. CODIERAST BULIST. CODIERAST STIFITL. CODIERAST STIFITL. CODIERAST STIFITL. CODIERAST STIFITL. CODIERAST STIFITL. CODIERAST CODIERAS TUCK-AST CODIERAST CODIERAS TUCK-AST CODIERA	Part no. Z4.102.0680.0 Z4.102.1280.0 Z4.102.1280.0 Z4.102.1280.0 Z4.102.2808.0 Z4.102.2808.0 Z4.102.2808.0 Z4.102.2808.0 Z4.802.2080.0 Z4.802.2080.0 O7.451.2480.0 O4.007.3080.0 80.020.6000.0 80.020.6003.0 S5.561.9153.0 O5.561.9153.0 O5.561.9153.0 O5.561.953.0 O5.561.9453.5 O5.584.0053.0 O5.584.0053.0 O5.584.0053.0 O5.584.0053.0 O5.598.8053.0 O5.598.8053.0 O5.598.8053.0 O5.592.2000.0 O5.502.2200.0 O5.502.2200.0 O5.502.2200.0 O5.502.2200.0 O5.502.2200.0 O5.502.2200.0 O5.502.2200.0 O5.502.2200.0 O5.502.2200.0 O5.502.2400.0 O5.502.2400.0 O5.502.2400.0 O5.502.2400.0 O7.409.7156.0 O7.409.7156.0 O7.409.7156.0 O7.409.7356.0 O7.417.6729.0 O7.417.6729.0 O7.417.6729.0 O7.417.6729.0 O7.417.6829.0 O7.417.6820.0 O7.409.7756.0 O7.409.	section / page 256 256 256 256 256 256 256 256 256 25

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Type	Part no.	section / page	Туре	Part no.	section / page	Type	Part no.	section / page
DST85/ 5	25.002.0553.0	328	FUER 0,5 MM2	05.543.7021.0	631	GEHAEUSEOBERTEIL	70.352.0635.3	633
DST85/ 5 OB	25.003.0553.0	328	FUER 0,5 MM2 KURZ	05.543.9021.0	655	GEHAEUSEOBERTEIL	70.352.1035.0	637
DST85/ 6	25.002.0653.0	328	FUER 0,75-1 MM2	02.123.7121.0	631	GEHAEUSEOBERTEIL	70.352.1035.1	637
DST85/ 6 OB	25.003.0653.0	328	FUER 0,75-1 MM2	05.543.7121.0	631	GEHAEUSEOBERTEIL	70.352.1035.2	637
DST85/ 7	25.002.0753.0	328	FUER 0,75-1 MM2	05.543.9121.0	655	GEHAEUSEOBERTEIL	70.352.1035.3	637
DST85/ 7 OB	25.003.0753.0	328	FUER 1,5 MM2	02.123.7221.0	■ 631	GEHAEUSEOBERTEIL	70.352.1628.7	769
DST85/ 8	25.002.0853.0	328	FUER 1,5 MM2	05.543.7221.0	■ 631	GEHAEUSEOBERTEIL	70.352.1635.0	637
DST85/ 8 OB	25.003.0853.0	328	FUER 1,5 MM2 KURZ	05.543.9221.0	■ 655	GEHAEUSEOBERTEIL	70.352.1635.1	637
DST85/ 9	25.002.0953.0	328	FUER 1,5 MM2 VERGOLD	02.123.7201.0	■ 631	GEHAEUSEOBERTEIL	70.352.1635.2	637
DST85/ 9 OB	25.003.0953.0	328	FUER 1,5 MM2 VERGOLD	05.543.7201.0	631	GEHAEUSEOBERTEIL	70.352.1635.3	637
DST85/10	25.002.1053.0	328	FUER 2,5 MM2	02.123.7321.0	631	GEHAEUSEOBERTEIL	70.352.2428.7	773
DST85/10 OB	25.003.1053.0	328	FUER 2,5 MM2	05.543.7321.0	631	GEHAEUSEOBERTEIL	70.352.2435.0	637
DST85/11	25.002.1153.0	328	FUER 4 MM2	05.543.9321.0	655	GEHAEUSEOBERTEIL	70.352.2435.1	637
DST85/11 OB	25.003.1153.0	328		02.123.7421.0	631	GEHAEUSEOBERTEIL	70.352.2435.2	637
DST85/12	25.002.1253.0	328	FUER 4 MM2	05.543.7421.0	■ 631	GEHAEUSEOBERTEIL	70.352.2435.3	637
DST85/12 OB	25.003.1253.0	328	FUER 4 MM2	05.543.9421.0	■ 655	GEHAEUSEOBERTEIL	70.352.3235.0	637
DSTLF85/ 2	25.004.0253.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0227.0	■ 781	GEHAEUSEOBERTEIL	70.352.3235.1	637
DSTLF85/ 2 OB	25.005.0253.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0327.0	■ 781	GEHAEUSEOBERTEIL	70.352.3235.2	637
DSTLF85/ 3	25.004.0353.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0427.0	781	GEHAEUSEOBERTEIL	70.352.3235.3	637
DSTLF85/ 3 OB	25.005.0353.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0527.0	781	GEHAEUSEOBERTEIL	70.352.4828.7	769
DSTLF85/ 4	25.004.0453.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0627.0	781	GEHAEUSEOBERTEIL	70.352.4835.0	633
DSTLF85/ 4 OB	25.005.0453.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0727.0		GEHAEUSEOBERTEIL	70.352.4835.1	633
DSTLF85/ 5	25.004.0553.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0827.0	781	GEHAEUSEOBERTEIL	70.352.4835.2	633
DSTLF85/ 5 OB	25.005.0553.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.0927.0	■ 781	GEHAEUSEOBERTEIL	70.352.4835.3	633
DSTLF85/ 6	25.004.0653.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.1027.0	■ 781	GEHAEUSEOBERTEIL	70.353.0635.0	633
DSTLF85/ 6 OB	25.005.0653.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.1127.0	781	GEHAEUSEOBERTEIL	70.353.0635.2	633
DSTLF85/ 7	25.004.0753.0	328	FUER 70ER KLEMMENADAPT.	Z7.256.1227.0	781	GEHAEUSEOBERTEIL	70.353.0635.3	633
DSTLF85/ 7 OB	25.005.0753.0	328	FUER NYAF 1,5 MM2	05.592.7553.0	138	GEHAEUSEOBERTEIL	70.353.1035.0	637
DSTLF85/ 8	25.004.0853.0	328	FUER NYAF 2,5 MM2	05.592.7653.0	138	GEHAEUSEOBERTEIL	70.353.1035.1	637
DSTLF85/ 8 OB	25.005.0853.0	328	FUER WK 4E/U	Z1.299.9053.0	176	GEHAEUSEOBERTEIL	70.353.1035.2	637
DSTLF85/ 9 DSTLF85/ 9 OB	25.004.0953.0 25.005.0953.0	328 328 328	FUER WKI 10/U FUER WKI 16/U	04.325.8553.8 04.325.8653.8	69 79	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	70.353.1035.3 70.353.1635.0	637 637
DSTLF85/10	25.004.1053.0	328	GEH.OT. TEIL L	75.900.0135.0	664	GEHAEUSEOBERTEIL	70.353.1635.1	637
DSTLF85/10 OB	25.005.1053.0	328	GEH.OT. TEIL L	75.950.1635.0	664	GEHAEUSEOBERTEIL	70.353.1635.2	637
DSTLF85/11 DSTLF85/11 OB	25.004.1153.0 25.005.1153.0	328 328 328	GEH.OT. TEIL L GEH.OT. TEIL L	75.950.2435.0 75.960.1635.0	664 664	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	70.353.1635.3 70.353.2435.0	637 637
DSTLF85/12	25.004.1253.0	328	GEH.OT. TEIL L GEH.UT. 10 POL.	75.960.2435.0	664	GEHAEUSEOBERTEIL	70.353.2435.1	637
DSTLF85/12 OB DSU-400V-250V4A	25.005.1253.0 87.030.6453.0	542	GEH.UT. 16 POL.	70.320.1038.0 70.320.1638.0	684 684	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	70.353.2435.2 70.353.2435.3	637 637
EAS-UE / D-135	87.222.5953.0	■ 564	GEH.UT. 24 POL.	70.320.2438.0	684	GEHAEUSEOBERTEIL	70.353.3235.1	637
EAS-UE / D-L-135	87.222.6053.0	■ 564	GEH.UT. 6 POL.	70.320.0638.0	684	GEHAEUSEOBERTEIL	70.353.3235.2	637
EAS-UE/D-115	87.221.5953.0	562	GEH.UT. TEIL F	75.900.0035.0	■ 664	GEHAEUSEOBERTEIL	70.353.4828.7	769
EAS-UE/D-L-115	87.221.6053.0	562	GEH.UT. TEIL F	75.931.1635.0	■ 664	GEHAEUSEOBERTEIL	70.353.4835.1	633
EKAP BLAU	Z8.000.0202.2	442	GEH.UT. TEIL F	75.931.2435.0	664	GEHAEUSEOBERTEIL	70.353.4835.2	633
EKAP ROT	Z8.000.0202.1		GEH.UT. TEIL F	75.933.1635.0	664	GEHAEUSEOBERTEIL	70.354.0628.7	769
ETAGENKLEMME	56.704.6953.1	30	GEH.UT. TEIL F	75.933.2435.0	664	GEHAEUSEOBERTEIL	70.354.0635.0	633
ETIKETTEN A4	05.591.3089.0	416	GEH.UT. TEIL F	75.934.2435.0	664	GEHAEUSEOBERTEIL	70.354.0635.1	633
EUROPAKLEMMLST.1P	99.261.3521.9	258	GEH.UT. TEIL F	75.941.1635.0	664	GEHAEUSEOBERTEIL	70.354.0635.2	633
F. 400/690V-SER.	05.502.3500.0	■ 631	GEH.UT. TEIL F	75.941.2435.0	■ 664	GEHAEUSEOBERTEIL	70.354.1028.7	769
F.EIGSICH.ANL.ZINKDRCKG	99.721.3329.7	■ 772	GEHAEUEOBERTEIL	70.354.0635.3	■ 633	GEHAEUSEOBERTEIL	70.354.1035.0	637
F.EIGSICH.ANL.ZINKDRCKG	99.723.3329.7	772	GEHAEUSE-OBERTEIL	70.351.1035.1	637	GEHAEUSEOBERTEIL	70.354.1035.1	637
F.EIGSICH.ANL.ZINKDRCKG	99.727.3329.7	772	GEHAEUSE-OBERTEIL	70.351.1635.1	637	GEHAEUSEOBERTEIL	70.354.1035.2	637
F.STCKHUELS.6,3 BIS2,5Q	05.582.8653.0	175	GEHAEUSE-OBERTEIL	70.351.2435.1	637	GEHAEUSEOBERTEIL	70.354.1035.3	637
FEDERKONTAKT	02.124.4029.0	207	GEHAEUSE-OBERTEIL	70.355.1035.1		GEHAEUSEOBERTEIL	70.354.1628.7	769
FEDERKONTAKT	02.124.4100.0	207	GEHAEUSE-OBERTEIL	70.355.1035.2	637	GEHAEUSEOBERTEIL	70.354.1635.0	637
FEDERKONTAKT	02.125.1629.0	291	GEHAEUSE-OBERTEIL	70.355.1635.1	637	GEHAEUSEOBERTEIL	70.354.1635.1	637
FEDERKONTAKT	02.125.1729.0	291	GEHAEUSE-OBERTEIL	70.355.1635.2	637	GEHAEUSEOBERTEIL	70.354.1635.2	637
FEDERKONTAKT BAND	02.125.1600.0	291	GEHAEUSE-OBERTEIL	70.355.2435.1	■ 637	GEHAEUSEOBERTEIL	70.354.1635.3	637
FEDERKONTAKT BAND	02.125.1700.0	291	GEHAEUSE-OBERTEIL	70.355.2435.2	■ 637	GEHAEUSEOBERTEIL	70.354.2435.0	637
FKK18 / 1	02.220.0121.0	217	GEHAEUSE-OBERTEIL	70.356.1035.1	637	GEHAEUSEOBERTEIL	70.354.2435.1	637
FKK18 / 1 Z	Z2.220.0121.0	217	GEHAEUSE-OBERTEIL	70.356.1635.1	637	GEHAEUSEOBERTEIL	70.354.2435.2	637
FKK18 / 2 FKK18 / 2	02.220.0321.0	217	GEHAEUSE-OBERTEIL GEHAEUSE-OBERTEIL	70.356.2435.1	637	GEHAEUSEOBERTEIL	70.354.2435.3	637
FKK18 / 3	Z2.220.0321.0 02.220.0421.0	217 217	GEHAEUSE-OBERTEIL	70.357.1035.1 70.357.1635.1	637 637	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	70.354.3235.1 70.354.3235.2	637 637
FKK18 / 3 Z	Z2.220.0421.0	217	GEHAEUSE-OBERTEIL	70.357.2435.1	■ 637	GEHAEUSEOBERTEIL	70.354.4828.7	769
FLACHSTECKER	05.555.8521.0	584	GEHAEUSEOBERTEIL	70.350.0628.7	■ 769	GEHAEUSEOBERTEIL	70.354.4835.1	633
FLACHSTECKER	05.555.8621.0	584	GEHAEUSEOBERTEIL	70.350.0635.0	■ 633	GEHAEUSEOBERTEIL	70.354.4835.2	633
FLACHSTECKER	05.555.8721.0	584	GEHAEUSEOBERTEIL	70.350.0635.1	■ 633	GEHAEUSEOBERTEIL	70.355.1028.7	769
FLACHSTECKER	05.555.8821.0	584	GEHAEUSEOBERTEIL	70.350.0635.2	633	GEHAEUSEOBERTEIL	70.355.1035.0	637
FLACHSTECKER	05.555.8921.0	584	GEHAEUSEOBERTEIL	70.350.0635.3	633	GEHAEUSEOBERTEIL	70.355.1035.3	637
FLACHSTECKER	05.555.9121.0	584	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	70.350.1028.7	769	GEHAEUSEOBERTEIL	70.355.1628.7	769
FLARE MOVE BM SERIE 38	80.063.4129.3	444	GEHAEUSEOBERTEIL	70.350.1035.0	637	GEHAEUSEOBERTEIL	70.355.1635.0	637
FLARE MOVE BZ SERIE 38	80.063.4029.3	444		70.350.1035.1	637	GEHAEUSEOBERTEIL	70.355.1635.3	637
FLARE-110V-1W-250V6A-F	80.010.4131.0	442	GEHAEUSEOBERTEIL	70.350.1035.3	637	GEHAEUSEOBERTEIL	70.355.2435.0	637
FLARE-115V/48VDC-0,5A	80.020.4102.0	478	GEHAEUSEOBERTEIL	70.350.1628.7	769	GEHAEUSEOBERTEIL	70.355.2435.3	637
FLARE-12DC-1W-250V6A-F	80.010.4106.0	442	GEHAEUSEOBERTEIL	70.350.1635.0	637	GEHAEUSEOBERTEIL	70.356.1035.0	637
FLARE-230V-1W-250V6A-F	80.010.4141.0	442	GEHAEUSEOBERTEIL	70.350.1635.1	637	GEHAEUSEOBERTEIL	70.356.1035.2	637
FLARF-230VAC/48VDC-0.5A	80.020.4103.0 80.010.4100.0	479	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	70.350.1635.3 70.350.2435.0	637 637	GEHAEUSEOBERTEIL	70.356.1035.3 70.356.1635.0	637 637
FLARE-24DC-1W-250V6A-F FLARE-24DC-2W-250V6A-F	80.010.4103.0	443	GEHAEUSEOBERTEIL	70.350.2435.1	637	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	70.356.1635.2	637
FLARE-24V-1S-250V6A-HA	80.010.4101.0	446	GEHAEUSEOBERTEIL	70.350.2435.2	637	GEHAEUSEOBERTEIL	70.356.1635.3	637
FLARE-24V-1W-250V6A-CUT	80.010.4120.0	446	GEHAEUSEOBERTEIL	70.350.2435.3	637	GEHAEUSEOBERTEIL	70.356.2435.0	637
FLARE-24V-1W-48V20M	80.010.4005.0	442	GEHAEUSEOBERTEIL	70.350.3235.0	637	GEHAEUSEOBERTEIL	70.356.2435.2	637
FLARE-24V-1W-48V20M-F	80.010.4105.0	442	GEHAEUSEOBERTEIL	70.350.3235.1	637	GEHAEUSEOBERTEIL	70.356.2435.3	637
FLARE-24VDC/230VAC-0,5A	80.020.4150.0	479	GEHAEUSEOBERTEIL	70.350.3235.2	637	GEHAEUSEOBERTEIL	70.357.1035.0	637
FLARE-24VDC/48VDC-0,5A	80.020.4100.0	478	GEHAEUSEOBERTEIL	70.350.3235.3	637	GEHAEUSEOBERTEIL	70.357.1035.2	637
FLARE-24VDC/48VDC-2A FLARE-PID/0060-S-250V6A	80.020.4101.0 81.020.4102.0	478 462	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	70.350.4828.7 70.350.4835.0	769	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	70.357.1035.3 70.357.1635.0	637
FLARE-PID/0100-S-250V6A	81.020.4101.0	462	GEHAEUSEOBERTEIL	70.350.4835.1	633	GEHAEUSEOBERTEIL	70.357.1635.2	637
FLARE-TIMER-S-250V6A	81.020.4100.0	462	GEHAEUSEOBERTEIL	70.350.4835.2	■ 633	GEHAEUSEOBERTEIL	70.357.1635.3	637
FLK-SR 10	87.210.2201.3	561	GEHAEUSEOBERTEIL	70.350.4835.3	■ 633	GEHAEUSEOBERTEIL	70.357.2435.0	637
FLK-SR 14	87.210.2202.3	■ 561	GEHAEUSEOBERTEIL	70.351.0635.0	633	GEHAEUSEOBERTEIL	70.357.2435.2	637
FLK-SR 16	87.210.2203.3	■ 561	GEHAEUSEOBERTEIL	70.351.0635.2	633	GEHAEUSEOBERTEIL	70.357.2435.3	637
FLK-SR 20	87.210.2204.3	561	GEHAEUSEOBERTEIL	70.351.0635.3	633	GEHAEUSEOBERTEIL	70.358.1035.0	637
FLK-SR 26	87.210.2205.3	561	GEHAEUSEOBERTEIL	70.351.1035.0	637	GEHAEUSEOBERTEIL	70.358.1035.1	637
FLK-SR 34	87.210.2207.3	561	GEHAEUSEOBERTEIL	70.351.1035.2	637	GEHAEUSEOBERTEIL	70.358.1035.2	637
FLK-SR 40	87.210.2208.3	■ 561	GEHAEUSEOBERTEIL	70.351.1035.3	637	GEHAEUSEOBERTEIL	70.358.1035.3	637
FLK-SR 50	87.210.2210.3	■ 561	GEHAEUSEOBERTEIL	70.351.1635.0	637	GEHAEUSEOBERTEIL	70.358.1635.0	637
FLK-SR 60	87.210.2211.3	■ 561	GEHAEUSEOBERTEIL	70.351.1635.2	637	GEHAEUSEOBERTEIL	70.358.1635.1	637
FLK-SR 64	87.210.2212.3	■ 561	GEHAEUSEOBERTEIL	70.351.1635.3	637	GEHAEUSEOBERTEIL	70.358.1635.2	637
FRONTSTECKER 115	87.221.5853.0	562	GEHAEUSEOBERTEIL	70.351.2435.0	637	GEHAEUSEOBERTEIL	70.358.1635.3	637
FRONTSTECKER 135/150	87.222.5853.0	564	GEHAEUSEOBERTEIL	70.351.2435.2	637	GEHAEUSEOBERTEIL	70.358.2435.0	637
FSR-25VAC-12V1A	87.230.0553.0	528	GEHAEUSEOBERTEIL	70.351.2435.3	637	GEHAEUSEOBERTEIL	70.358.2435.1	637
FSR-25VAC-15V1A	87.230.0653.0	528	GEHAEUSEOBERTEIL	70.352.0628.7	769	GEHAEUSEOBERTEIL	70.358.2435.2	637
FSR-25VAC-5V1A	87.230.0453.0		GEHAEUSEOBERTEIL	70.352.0635.0	633	GEHAEUSEOBERTEIL	70.358.2435.3	637
FSR-28VAC-24V1A	87.230.0753.0	528	GEHAEUSEOBERTEIL	70.352.0635.1	■ 633	GEHAEUSEOBERTEIL	70.359.1035.0	637
FUER 0,5 MM2	02.123.7021.0	631	GEHAEUSEOBERTEIL	70.352.0635.2	■ 633	GEHAEUSEOBERTEIL	70.359.1035.1	637

Туре	Part no.	section / page	Туре	Part no.	section / page	Type	Part no.	section / page
OFLIAFILOFORFREI	70.050.4005.0	_ 007	OFLIAFIJOFODERTEJ	74.054.4005.0		OFWAFUOFORERTEN	70.050.4005.4	
GEHAEUSEOBERTEIL	70.359.1035.2	637	GEHAEUSEOBERTEIL	71.354.1635.0	633	GEHAEUSEOBERTEIL	73.350.4035.1	727
GEHAEUSEOBERTEIL	70.359.1035.3	637	GEHAEUSEOBERTEIL	71.354.1635.1	633	GEHAEUSEOBERTEIL	73.350.4035.2	727
GEHAEUSEOBERTEIL	70.359.1635.0	637	GEHAEUSEOBERTEIL	71.354.1635.2	633	GEHAEUSEOBERTEIL	73.350.4035.3	727
GEHAEUSEOBERTEIL	70.359.1635.1	637	GEHAEUSEOBERTEIL	71.354.1635.3	633	GEHAEUSEOBERTEIL	73.350.6435.0	727
GEHAEUSEOBERTEIL	70.359.1635.2 70.359.1635.3	637	GEHAEUSEOBERTEIL	71.354.2435.0 71.354.2435.1	633	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	73.350.6435.1	727
GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	70.359.2435.0	637 637	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	71.354.2435.2	633	GEHAEUSEOBERTEIL	73.350.6435.2 73.350.6435.3	727 727
GEHAEUSEOBERTEIL	70.359.2435.1	■ 637	GEHAEUSEOBERTEIL	71.354.2435.3	633	GEHAEUSEOBERTEIL	73.352.4035.0	709
GEHAEUSEOBERTEIL	70.359.2435.2	■ 637	GEHAEUSEOBERTEIL	71.372.1035.0	735	GEHAEUSEOBERTEIL	73.352.4035.1	709
GEHAEUSEOBERTEIL	70.359.2435.3	637	GEHAEUSEOBERTEIL	71.372.1635.0	735	GEHAEUSEOBERTEIL	73.352.4035.2	709
GEHAEUSEOBERTEIL	70.360.0628.9	769	GEHAEUSEOBERTEIL	72.250.1635.2	703	GEHAEUSEOBERTEIL	73.352.4035.3	709
GEHAEUSEOBERTEIL	70.360.1028.9	769	GEHAEUSEOBERTEIL	72.250.2435.2	705	GEHAEUSEOBERTEIL	73.352.6435.0	727
GEHAEUSEOBERTEIL	70.360.1628.9	■ 769	GEHAEUSEOBERTEIL	72.350.0635.0	657	GEHAEUSEOBERTEIL	73.352.6435.1	727
GEHAEUSEOBERTEIL	70.360.2428.9	■ 769	GEHAEUSEOBERTEIL	72.350.0635.1	657	GEHAEUSEOBERTEIL	73.352.6435.2	727
GEHAEUSEOBERTEIL	70.360.4828.9	769	GEHAEUSEOBERTEIL	72.350.0635.2	■ 657	GEHAEUSEOBERTEIL	73.352.6435.3	727
GEHAEUSEOBERTEIL	70.362.0628.9	769	GEHAEUSEOBERTEIL	72.350.0635.3	■ 657	GEHAEUSEOBERTEIL	73.353.1035.0	749
GEHAEUSEOBERTEIL	70.362.1028.9 70.362.1628.9	769	GEHAEUSEOBERTEIL	72.350.1035.0	649	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	73.353.1035.1	749
GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	70.362.2428.9	769 772	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	72.350.1035.1 72.350.1035.2	649 649	GEHAEUSEOBERTEIL	73.353.1035.2 73.353.4035.0	749 709
GEHAEUSEOBERTEIL	70.362.4828.9	769	GEHAEUSEOBERTEIL	72.350.1035.3	649	GEHAEUSEOBERTEIL	73.353.4035.1	709
GEHAEUSEOBERTEIL	70.363.0628.9	769	GEHAEUSEOBERTEIL	72.350.1635.0	649	GEHAEUSEOBERTEIL	73.353.4035.2	709
GEHAEUSEOBERTEIL	70.363.1028.9	769	GEHAEUSEOBERTEIL	72.350.1635.1	649	GEHAEUSEOBERTEIL	73.353.4035.3	709
GEHAEUSEOBERTEIL	70.363.1628.9	769	GEHAEUSEOBERTEIL	72.350.1635.2	649	GEHAEUSEOBERTEIL	73.353.6435.0	727
GEHAEUSEOBERTEIL	70.363.2428.9	769	GEHAEUSEOBERTEIL	72.350.1635.3	649	GEHAEUSEOBERTEIL	73.353.6435.1	727
GEHAEUSEOBERTEIL	70.364.0628.9	769	GEHAEUSEOBERTEIL	72.350.2435.0	649	GEHAEUSEOBERTEIL	73.353.6435.2	727
GEHAEUSEOBERTEIL	70.364.1028.9	769	GEHAEUSEOBERTEIL	72.350.2435.1	649	GEHAEUSEOBERTEIL	73.353.6435.3	727
GEHAEUSEOBERTEIL	70.364.1628.9	769	GEHAEUSEOBERTEIL	72.350.2435.2	649	GEHAEUSEOBERTEIL	73.354.1035.0	749
GEHAEUSEOBERTEIL	70.364.4828.9	769	GEHAEUSEOBERTEIL	72.350.2435.3	649	GEHAEUSEOBERTEIL	73.354.1035.1	749
GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	70.365.1028.9	769	GEHAEUSEOBERTEIL	72.351.0635.0	657	GEHAEUSEOBERTEIL	73.354.1035.2	749
GEHAEUSEOBERTEIL	70.365.1628.9	769	GEHAEUSEOBERTEIL	72.351.0635.1	657	GEHAEUSEOBERTEIL	73.354.4035.0	727
	70.365.2428.9	769	GEHAEUSEOBERTEIL	72.351.0635.2	657	GEHAEUSEOBERTEIL	73.354.6435.0	727
GEHAEUSEOBERTEIL	70.367.1028.9	769	GEHAEUSEOBERTEIL	72.351.0635.3	657	GEHAEUSEOBERTEIL	73.355.4035.0	727
GEHAEUSEOBERTEIL	70.367.1628.9	769	GEHAEUSEOBERTEIL	72.351.1035.0	649	GEHAEUSEOBERTEIL	73.355.4035.1	727
GEHAEUSEOBERTEIL	70.367.2428.9	769	GEHAEUSEOBERTEIL	72.351.1035.1	649	GEHAEUSEOBERTEIL	73.355.4035.2	727
GEHAEUSEOBERTEIL	70.368.1028.9	769	GEHAEUSEOBERTEIL	72.351.1035.2	649	GEHAEUSEOBERTEIL	73.355.4035.3	727
GEHAEUSEOBERTEIL	70.368.1628.9	769	GEHAEUSEOBERTEIL	72.351.1035.3	649	GEHAEUSEOBERTEIL	73.355.6435.0	727
GEHAEUSEOBERTEIL	70.368.2428.9	■ 769	GEHAEUSEOBERTEIL	72.351.1635.0	649	GEHAEUSEOBERTEIL	73.355.6435.1	727
GEHAEUSEOBERTEIL	70.369.1028.9	■ 769	GEHAEUSEOBERTEIL	72.351.1635.1	649	GEHAEUSEOBERTEIL	73.355.6435.2	727
GEHAEUSEOBERTEIL	70.369.1628.9	769	GEHAEUSEOBERTEIL	72.351.1635.2	649	GEHAEUSEOBERTEIL	73.355.6435.3	727
GEHAEUSEOBERTEIL	70.372.0628.7	773	GEHAEUSEOBERTEIL	72.351.1635.3	649	GEHAEUSEOBERTEIL	73.357.4035.0	709
GEHAEUSEOBERTEIL	70.372.0635.0	733	GEHAEUSEOBERTEIL	72.351.2435.0	649	GEHAEUSEOBERTEIL	73.357.4035.1	709
GEHAEUSEOBERTEIL	70.372.0635.3	733	GEHAEUSEOBERTEIL	72.351.2435.1	649	GEHAEUSEOBERTEIL	73.357.4035.2	709
GEHAEUSEOBERTEIL	70.372.1028.7	773	GEHAEUSEOBERTEIL	72.351.2435.2	649	GEHAEUSEOBERTEIL	73.357.4035.3	709
GEHAEUSEOBERTEIL	70.372.1035.0	733	GEHAEUSEOBERTEIL	72.351.2435.3	649	GEHAEUSEOBERTEIL	73.357.6435.0	727
GEHAEUSEOBERTEIL	70.372.1035.3	733	GEHAEUSEOBERTEIL	72.352.0635.0	657	GEHAEUSEOBERTEIL	73.357.6435.1	727
GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	70.372.1628.7 70.372.1635.0	773	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	72.352.0635.1 72.352.0635.2	657 657	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	73.357.6435.2 73.357.6435.3	727
GEHAEUSEOBERTEIL	70.372.1635.3	733	GEHAEUSEOBERTEIL	72.352.0635.3	657	GEHAEUSEOBERTEIL	73.358.4035.0	709
GEHAEUSEOBERTEIL	70.372.2428.7	773	GEHAEUSEOBERTEIL	72.352.1035.0	649	GEHAEUSEOBERTEIL	73.358.4035.1	709
GEHAEUSEOBERTEIL	70.372.4828.7	773	GEHAEUSEOBERTEIL	72.352.1035.1	649	GEHAEUSEOBERTEIL	73.358.4035.2	709
GEHAEUSEOBERTEIL	70.372.4835.3	733	GEHAEUSEOBERTEIL	72.352.1035.2	649	GEHAEUSEOBERTEIL	73.358.4035.3	709
GEHAEUSEOBERTEIL	70.374.2435.3	733	GEHAEUSEOBERTEIL	72.352.1035.3	649	GEHAEUSEOBERTEIL	73.358.6435.0	727
GEHAEUSEOBERTEIL	70.375.4828.9	772	GEHAEUSEOBERTEIL	72.352.1635.0	649	GEHAEUSEOBERTEIL	73.358.6435.1	727
GEHAEUSEOBERTEIL	70.375.4835.3	733	GEHAEUSEOBERTEIL	72.352.1635.1	649	GEHAEUSEOBERTEIL	73.358.6435.2	727
GEHAEUSEOBERTEIL	70.377.4828.9	772	GEHAEUSEOBERTEIL	72.352.1635.2	649	GEHAEUSEOBERTEIL	73.358.6435.3	727
GEHAEUSEOBERTEIL	71.350.1035.0	■ 633	GEHAEUSEOBERTEIL	72.352.1635.3	649	GEHAEUSEOBERTEIL	73.359.4035.0	727
GEHAEUSEOBERTEIL	71.350.1035.1	■ 633	GEHAEUSEOBERTEIL	72.352.2435.0	649	GEHAEUSEOBERTEIL	73.359.6435.0	727
GEHAEUSEOBERTEIL	71.350.1035.2	633	GEHAEUSEOBERTEIL	72.352.2435.1	649	GEHAEUSEOBERTEIL	76.350.0736.0	713
GEHAEUSEOBERTEIL	71.350.1035.3	633	GEHAEUSEOBERTEIL	72.352.2435.2	649	GEHAEUSEOBERTEIL	76.350.0736.1	713
GEHAEUSEOBERTEIL	71.350.1635.0	633	GEHAEUSEOBERTEIL	72.352.2435.3	649	GEHAEUSEOBERTEIL	76.350.0760.1	713
GEHAEUSEOBERTEIL	71.350.1635.1	633	GEHAEUSEOBERTEIL	72.353.2435.0	649	GEHAEUSEOBERTEIL	76.350.1535.0	721
GEHAEUSEOBERTEIL	71.350.1635.2	633	GEHAEUSEOBERTEIL	72.354.2435.0	649	GEHAEUSEOBERTEIL	76.350.1535.2	721
GEHAEUSEOBERTEIL	71.350.1635.3	633	GEHAEUSEOBERTEIL	72.355.1035.0	649	GEHAEUSEOBERTEIL	76.350.2535.0	721
GEHAEUSEOBERTEIL	71.350.2435.0	633	GEHAEUSEOBERTEIL	72.355.1035.1	649	GEHAEUSEOBERTEIL	76.350.2535.2	721
GEHAEUSEOBERTEIL	71.350.2435.1	633	GEHAEUSEOBERTEIL	72.355.1035.2	649	GEHAEUSEOBERTEIL	76.350.4035.0	721
GEHAEUSEOBERTEIL	71.350.2435.2	633	GEHAEUSEOBERTEIL	72.355.1035.3	649	GEHAEUSEOBERTEIL	76.350.4035.1	721
GEHAEUSEOBERTEIL	71.350.2435.3	633	GEHAEUSEOBERTEIL	72.355.1635.0	649	GEHAEUSEOBERTEIL	76.350.4035.2	721
GEHAEUSEOBERTEIL	71.351.1035.0	633	GEHAEUSEOBERTEIL	72.355.1635.1	649	GEHAEUSEOBERTEIL	76.350.4035.3	721
GEHAEUSEOBERTEIL	71.351.1035.1		GEHAEUSEOBERTEIL	72.355.1635.2	649	GEHAEUSEOBERTEIL	76.350.6435.0	721
GEHAEUSEOBERTEIL	71.351.1035.2	633	GEHAEUSEOBERTEIL	72.355.1635.3	649	GEHAEUSEOBERTEIL	76.350.6435.1	721
GEHAEUSEOBERTEIL	71.351.1035.3	633	GEHAEUSEOBERTEIL	72.355.2435.0	649	GEHAEUSEOBERTEIL	76.350.6435.2	721
GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	71.351.1635.0	633	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	72.355.2435.1 72.355.2435.2	649	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	76.350.6435.3	721
GEHAEUSEOBERTEIL	71.351.1635.1 71.351.1635.2	633	GEHAEUSEOBERTEIL	72.355.2435.3	649	GEHAEUSEOBERTEIL	76.352.0736.0 76.352.0736.1	713
GEHAEUSEOBERTEIL	71.351.1635.3	633	GEHAEUSEOBERTEIL	72.356.1035.0	649	GEHAEUSEOBERTEIL	76.352.0760.1	713
GEHAEUSEOBERTEIL	71.351.2435.0	633	GEHAEUSEOBERTEIL	72.356.1035.1	649	GEHAEUSEOBERTEIL	76.352.1535.0	721
GEHAEUSEOBERTEIL	71.351.2435.1	633	GEHAEUSEOBERTEIL	72.356.1035.2	649	GEHAEUSEOBERTEIL	76.352.1535.1	721
GEHAEUSEOBERTEIL	71.351.2435.2	633	GEHAEUSEOBERTEIL	72.356.1035.3	649	GEHAEUSEOBERTEIL	76.352.1535.2	721
GEHAEUSEOBERTEIL	71.351.2435.3 71.352.1035.0	633	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	72.356.1635.0	649	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	76.352.2535.0 76.352.2535.1	721
GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	71.352.1035.1	633 633	GEHAEUSEOBERTEIL	72.356.1635.1 72.356.1635.2	649	GEHAEUSEOBERTEIL	76.352.2535.2	721
GEHAEUSEOBERTEIL	71.352.1035.2	■ 633	GEHAEUSEOBERTEIL	72.356.1635.3	649	GEHAEUSEOBERTEIL	76.352.4035.0	■ 697
GEHAEUSEOBERTEIL	71.352.1035.3	■ 633	GEHAEUSEOBERTEIL	72.356.2435.0	649	GEHAEUSEOBERTEIL	76.352.4035.1	■ 697
GEHAEUSEOBERTEIL	71.352.1635.0	633	GEHAEUSEOBERTEIL	72.356.2435.1	649	GEHAEUSEOBERTEIL	76.352.4035.2	697
GEHAEUSEOBERTEIL	71.352.1635.1	633	GEHAEUSEOBERTEIL	72.356.2435.2	649	GEHAEUSEOBERTEIL	76.352.4035.3	697
GEHAEUSEOBERTEIL	71.352.1635.2	633	GEHAEUSEOBERTEIL	72.356.2435.3	649	GEHAEUSEOBERTEIL	76.352.6435.0	721
GEHAEUSEOBERTEIL	71.352.1635.3	633	GEHAEUSEOBERTEIL	72.357.1035.0	649	GEHAEUSEOBERTEIL	76.352.6435.1	721
GEHAEUSEOBERTEIL	71.352.2435.0	633	GEHAEUSEOBERTEIL	72.357.1035.1	649	GEHAEUSEOBERTEIL	76.352.6435.2	721
GEHAEUSEOBERTEIL	71.352.2435.1	633	GEHAEUSEOBERTEIL	72.357.1035.2	649	GEHAEUSEOBERTEIL	76.352.6435.3	721
GEHAEUSEOBERTEIL	71.352.2435.2	633	GEHAEUSEOBERTEIL	72.357.1035.3	649	GEHAEUSEOBERTEIL	76.353.1535.0	721
GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	71.352.2435.3 71.353.1035.0	633	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	72.357.1635.0 72.357.1635.1	649	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	76.353.1535.2 76.353.2535.0	721
GEHAEUSEOBERTEIL	71.353.1035.1	633	GEHAEUSEOBERTEIL	72.357.1635.2	649	GEHAFUSFORERTEIL	76.353.2535.2	721
GEHAEUSEOBERTEIL	71.353.1035.2	■ 633	GEHAEUSEOBERTEIL	72.357.1635.3	649	GEHAEUSEOBERTEIL	76.353.4035.0	■ 697
GEHAEUSEOBERTEIL	71.353.1035.3	■ 633	GEHAEUSEOBERTEIL	72.357.2435.0	649	GEHAEUSEOBERTEIL	76.353.4035.1	■ 697
GEHAEUSEOBERTEIL	71.353.1635.0	633	GEHAEUSEOBERTEIL	72.357.2435.1	649	GEHAEUSEOBERTEIL	76.353.4035.2	697
GEHAEUSEOBERTEIL	71.353.1635.1	633	GEHAEUSEOBERTEIL	72.357.2435.2	649	GEHAEUSEOBERTEIL	76.353.4035.3	
GEHAEUSEOBERTEIL	71.353.1635.2	633	GEHAEUSEOBERTEIL	72.357.2435.3	649	GEHAEUSEOBERTEIL	76.353.6435.0	721
GEHAEUSEOBERTEIL	71.353.1635.3	633	GEHAEUSEOBERTEIL	72.359.2435.0	649	GEHAEUSEOBERTEIL	76.353.6435.1	721
GEHAEUSEOBERTEIL	71.353.2435.0	633	GEHAEUSEOBERTEIL	72.372.1035.0	733	GEHAEUSEOBERTEIL	76.353.6435.2	721
GEHAEUSEOBERTEIL	71.353.2435.1	■ 633	GEHAEUSEOBERTEIL	72.372.1035.3	733	GEHAEUSEOBERTEIL	76.353.6435.3	721
GEHAEUSEOBERTEIL	71.353.2435.2	■ 633	GEHAEUSEOBERTEIL	72.372.1635.0	733	GEHAEUSEOBERTEIL	76.354.1535.0	721
GEHAEUSEOBERTEIL	71.353.2435.3	633	GEHAEUSEOBERTEIL	72.372.1635.3	733	GEHAEUSEOBERTEIL	76.354.1535.1	721
GEHAEUSEOBERTEIL	71.354.1035.0	633	GEHAEUSEOBERTEIL	72.372.2435.0	733	GEHAEUSEOBERTEIL	76.354.1535.2	721
GEHAEUSEOBERTEIL	71.354.1035.1	633	GEHAEUSEOBERTEIL	72.372.2435.3	733	GEHAEUSEOBERTEIL	76.354.2535.0	721
GEHAEUSEOBERTEIL	71.354.1035.2	633	GEHAEUSEOBERTEIL	72.374.2435.3	733	GEHAEUSEOBERTEIL	76.354.2535.1	721
GEHAEUSEOBERTEIL	71.354.1035.3	633	GEHAEUSEOBERTEIL	73.350.4035.0	727	GEHAEUSEOBERTEIL	76.354.2535.2	721

Type	Part no.	section / page	Туре	Part no.	section / page	Туре	Part no.	section / page
GEHAEUSEOBERTEIL	76.354.4035.0	707	GEHAEUSEUNTERTEIL	70.333.0628.9	771	GEHAEUSEUNTERTEIL	72.320.0628.0	658
GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	76.354.4035.1 76.354.4035.2	707 707 707 707	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	70.333.0635.0 70.333.0635.1	■ 635 ■ 635	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	72.320.1028.0 72.320.1628.0	■ 650 ■ 650
GEHAEUSEOBERTEIL	76.354.4035.3	707	GEHAEUSEUNTERTEIL	70.333.1028.9	771	GEHAEUSEUNTERTEIL	72.320.2428.0	■ 650
GEHAEUSEOBERTEIL	76.354.6435.0	721	GEHAEUSEUNTERTEIL	70.333.1035.0	639	GEHAEUSEUNTERTEIL	72.325.0628.0	■ 659
GEHAEUSEOBERTEIL	76.354.6435.1	721	GEHAEUSEUNTERTEIL	70.333.1035.1	■ 639	GEHAEUSEUNTERTEIL	72.325.1028.0	651
GEHAEUSEOBERTEIL	76.354.6435.2	721	GEHAEUSEUNTERTEIL	70.333.1635.0	■ 639	GEHAEUSEUNTERTEIL	72.325.1628.0	651
GEHAEUSEOBERTEIL	76.354.6435.3	721	GEHAEUSEUNTERTEIL	70.333.1635.1	639	GEHAEUSEUNTERTEIL	72.325.2428.0	651
GEHAEUSEOBERTEIL	76.372.0736.0	713	GEHAEUSEUNTERTEIL	70.333.2428.9		GEHAEUSEUNTERTEIL	72.330.0635.0	658
GEHAEUSEOBERTEIL	76.372.0736.1	713	GEHAEUSEUNTERTEIL	70.333.2435.0	639	GEHAEUSEUNTERTEIL	72.330.0635.1	658
GEHAEUSEOBERTEIL	76.372.0760.1	713	GEHAEUSEUNTERTEIL	70.333.2435.1	■ 639	GEHAEUSEUNTERTEIL	72.330.1035.0	■ 650
GEHAEUSEOBERTEIL	77.350.1035.0	645	GEHAEUSEUNTERTEIL	70.340.0628.9	■ 771	GEHAEUSEUNTERTEIL	72.330.1035.1	■ 650
GEHAEUSEOBERTEIL	77.350.1035.1	645	GEHAEUSEUNTERTEIL	70.340.0635.0	■ 635	GEHAEUSEUNTERTEIL	72.330.1635.0	■ 650
GEHAEUSEOBERTEIL	77.350.1035.2	645	GEHAEUSEUNTERTEIL	70.340.0635.1	■ 635	GEHAEUSEUNTERTEIL	72.330.1635.1	■ 650
GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	77.350.1035.3 77.350.1635.0	645 645 645 645	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	70.340.1028.9 70.340.1035.0	771 639	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	72.330.2435.0 72.330.2435.1	650 650
GEHAEUSEOBERTEIL	77.350.1635.1	645	GEHAEUSEUNTERTEIL	70.340.1035.1	639	GEHAEUSEUNTERTEIL	72.331.0635.0	658
GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	77.350.1635.2 77.350.1635.3	645 645 645	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	70.340.1635.0 70.340.1635.1	639 639	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	72.331.0635.1 72.331.1035.0	658 650
GEHAEUSEOBERTEIL	77.350.2435.0	■ 645	GEHAEUSEUNTERTEIL	70.340.2428.9	771	GEHAEUSEUNTERTEIL	72.331.1035.1	650
GEHAEUSEOBERTEIL	77.350.2435.1	■ 645	GEHAEUSEUNTERTEIL	70.340.2435.0	639	GEHAEUSEUNTERTEIL	72.331.1635.0	650
GEHAEUSEOBERTEIL	77.350.2435.2	645	GEHAEUSEUNTERTEIL	70.340.2435.1	639	GEHAEUSEUNTERTEIL	72.331.1635.1	650
GEHAEUSEOBERTEIL	77.350.2435.3	645	GEHAEUSEUNTERTEIL	70.341.0628.9	771	GEHAEUSEUNTERTEIL	72.331.2435.0	650
GEHAEUSEOBERTEIL	77.351.1035.0	645	GEHAEUSEUNTERTEIL	70.341.0635.0	635	GEHAEUSEUNTERTEIL	72.331.2435.1	650
GEHAEUSEOBERTEIL	77.351.1035.1	645	GEHAEUSEUNTERTEIL	70.341.0635.1		GEHAEUSEUNTERTEIL	72.333.0635.0	659
GEHAEUSEOBERTEIL	77.351.1035.2	645	GEHAEUSEUNTERTEIL	70.341.1028.9	771	GEHAEUSEUNTERTEIL	72.333.0635.1	659
GEHAEUSEOBERTEIL	77.351.1035.3	■ 645	GEHAEUSEUNTERTEIL	70.341.1035.0	■ 639	GEHAEUSEUNTERTEIL	72.333.1035.0	■ 651
GEHAEUSEOBERTEIL	77.351.1635.0	■ 645	GEHAEUSEUNTERTEIL	70.341.1035.1	■ 639	GEHAEUSEUNTERTEIL	72.333.1035.1	■ 651
GEHAEUSEOBERTEIL	77.351.1635.1	645	GEHAEUSEUNTERTEIL	70.341.1635.0	■ 639	GEHAEUSEUNTERTEIL	72.333.1635.0	651
GEHAEUSEOBERTEIL	77.351.1635.2	645	GEHAEUSEUNTERTEIL	70.341.1635.1	■ 639	GEHAEUSEUNTERTEIL	72.333.1635.1	651
GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	77.351.1635.3 77.351.2435.0	645 645 645 645 645 645 645	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	70.341.2428.9 70.341.2435.0	771 639	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	72.333.2435.0 72.333.2435.1	651 651
GEHAEUSEOBERTEIL	77.351.2435.1	645	GEHAEUSEUNTERTEIL	70.341.2435.1	639	GEHAEUSEUNTERTEIL	72.340.0635.0	659
GEHAEUSEOBERTEIL	77.351.2435.2	■ 645	GEHAEUSEUNTERTEIL	70.341.4828.9	771	GEHAEUSEUNTERTEIL	72.340.0635.1	■ 659
GEHAEUSEOBERTEIL	77.351.2435.3	■ 645	GEHAEUSEUNTERTEIL	70.341.4835.1	635	GEHAEUSEUNTERTEIL	72.340.1035.0	■ 651
GEHAEUSEOBERTEIL	77.352.1035.0	■ 645	GEHAEUSEUNTERTEIL	70.341.4835.3	■ 635	GEHAEUSEUNTERTEIL	72.340.1035.1	■ 651
GEHAEUSEOBERTEIL	77.352.1035.1	■ 645	GEHAEUSEUNTERTEIL	70.342.0628.9	■ 771	GEHAEUSEUNTERTEIL	72.340.1635.0	■ 651
GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	77.352.1035.2 77.352.1035.3	645 645 645	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	70.342.0635.0 70.342.0635.1	635 635	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	72.340.1635.1 72.340.2435.0	651 651
GEHAEUSEOBERTEIL	77.352.1635.0	645	GEHAEUSEUNTERTEIL	70.342.1028.9	771	GEHAEUSEUNTERTEIL	72.340.2435.1	651
GEHAEUSEOBERTEIL	77.352.1635.1	■ 645	GEHAEUSEUNTERTEIL	70.342.1035.0	■ 639	GEHAEUSEUNTERTEIL	72.341.0635.0	■ 659
GEHAEUSEOBERTEIL	77.352.1635.2	■ 645	GEHAEUSEUNTERTEIL	70.342.1035.1	■ 639	GEHAEUSEUNTERTEIL	72.341.0635.1	■ 659
GEHAEUSEOBERTEIL	77.352.1635.3	■ 645	GEHAEUSEUNTERTEIL	70.342.1635.0	■ 639	GEHAEUSEUNTERTEIL	72.341.1035.0	■ 651
GEHAEUSEOBERTEIL	77.352.2435.0	■ 645	GEHAEUSEUNTERTEIL	70.342.1635.1	■ 639	GEHAEUSEUNTERTEIL	72.341.1035.1	■ 651
GEHAEUSEOBERTEIL	77.352.2435.1	645	GEHAEUSEUNTERTEIL	70.342.2428.9	771	GEHAEUSEUNTERTEIL	72.341.1635.0	651
GEHAEUSEOBERTEIL	77.352.2435.2	645	GEHAEUSEUNTERTEIL	70.342.2435.0	639	GEHAEUSEUNTERTEIL	72.341.1635.1	651
GEHAEUSEOBERTEIL	77.352.2435.3	6 45	GEHAEUSEUNTERTEIL	70.342.2435.1	639	GEHAEUSEUNTERTEIL	72.341.2435.0	651
GEHAEUSEOBERTEIL	77.354.2435.0	735	GEHAEUSEUNTERTEIL	70.343.0628.9	771	GEHAEUSEUNTERTEIL	72.341.2435.1	651
GEHAEUSEOBERTEIL	77.372.1035.0		GEHAEUSEUNTERTEIL	70.343.0635.0	635	GEHAEUSEUNTERTEIL	72.342.0635.0	659
GEHAEUSEOBERTEIL	77.372.1635.0	735	GEHAEUSEUNTERTEIL	70.343.0635.1	■ 635	GEHAEUSEUNTERTEIL	72.342.0635.1	659
GEHAEUSEOBERTEIL	77.374.2435.3	735	GEHAEUSEUNTERTEIL	70.343.1035.0	■ 639	GEHAEUSEUNTERTEIL	72.342.1035.0	651
GEHAEUSEOBERTEIL	99.701.3329.7	772	GEHAEUSEUNTERTEIL	70.343.1035.1	■ 639	GEHAEUSEUNTERTEIL	72.342.1035.1	■ 651
GEHAEUSEOBERTEIL	99.703.3329.7	772	GEHAEUSEUNTERTEIL	70.343.1635.0	■ 639	GEHAEUSEUNTERTEIL	72.342.1635.0	■ 651
GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	99.705.3329.7 99.707.3329.7	772	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	70.343.1635.1 70.343.2428.9	639	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	72.342.1635.1 72.342.2435.0	651 651
GEHAEUSEOBERTEIL	99.710.3329.7	773	GEHAEUSEUNTERTEIL	70.343.2435.0	639	GEHAEUSEUNTERTEIL	72.342.2435.1	651
GEHAEUSEOBERTEIL	99.711.3329.7	773	GEHAEUSEUNTERTEIL	70.343.2435.1	639	GEHAEUSEUNTERTEIL	72.343.0635.0	■ 659
GEHAEUSEOBERTEIL	99.713.3329.7	773	GEHAEUSEUNTERTEIL	70.344.4828.9	771	GEHAEUSEUNTERTEIL	72.343.0635.1	■ 659
GEHAEUSEOBERTEIL	99.716.3329.7	773	GEHAEUSEUNTERTEIL	70.344.4835.1	■ 635	GEHAEUSEUNTERTEIL	72.343.1035.0	651
GEHAEUSEOBERTEILE	70.353.0635.1	633	GEHAEUSEUNTERTEIL	71.320.1028.0	■ 634	GEHAEUSEUNTERTEIL	72.343.1035.1	651
GEHAEUSEUNTERTEIL	70.320.0628.0	634	GEHAEUSEUNTERTEIL	71.320.1628.0	634	GEHAEUSEUNTERTEIL	72.343.1635.0	651
GEHAEUSEUNTERTEIL	70.320.0628.9	770	GEHAEUSEUNTERTEIL	71.320.2428.0	634	GEHAEUSEUNTERTEIL	72.343.1635.1	651
GEHAEUSEUNTERTEIL	70.320.1028.0	638	GEHAEUSEUNTERTEIL	71.325.1028.0	635	GEHAEUSEUNTERTEIL	72.343.2435.0	651
GEHAEUSEUNTERTEIL	70.320.1028.9	■ 770	GEHAEUSEUNTERTEIL	71.325.1628.0	■ 635	GEHAEUSEUNTERTEIL	72.343.2435.1	651
GEHAEUSEUNTERTEIL	70.320.1628.0	■ 638	GEHAEUSEUNTERTEIL	71.325.2428.0	■ 635	GEHAEUSEUNTERTEIL	73.326.4028.0	729
GEHAEUSEUNTERTEIL	70.320.1628.9	770	GEHAEUSEUNTERTEIL	71.330.1035.0	■ 634	GEHAEUSEUNTERTEIL	73.326.6428.0	729
GEHAEUSEUNTERTEIL	70.320.2428.0	638	GEHAEUSEUNTERTEIL	71.330.1035.1	■ 634	GEHAEUSEUNTERTEIL	73.327.4028.0	731
GEHAEUSEUNTERTEIL	70.320.2428.9	770	GEHAEUSEUNTERTEIL	71.330.1635.0	634	GEHAEUSEUNTERTEIL	73.327.6428.0	731
GEHAEUSEUNTERTEIL	70.320.3228.0	638	GEHAEUSEUNTERTEIL	71.330.1635.1	634	GEHAEUSEUNTERTEIL	73.330.4035.0	729
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	70.320.4828.0 70.320.4828.9	634	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	71.330.2435.0 71.330.2435.1	634	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	73.330.4035.1 73.330.6435.0	729
GEHAEUSEUNTERTEIL	70.325.0628.0	635	GEHAEUSEUNTERTEIL	71.331.1035.0	634	GEHAEUSEUNTERTEIL	73.330.6435.1	729
GEHAEUSEUNTERTEIL	70.325.0628.9	■ 771	GEHAEUSEUNTERTEIL	71.331.1035.1	■ 634	GEHAEUSEUNTERTEIL	73.331.4035.0	729
GEHAEUSEUNTERTEIL	70.325.1028.0	■ 639	GEHAEUSEUNTERTEIL	71.331.1635.0	■ 634	GEHAEUSEUNTERTEIL	73.331.4035.1	729
GEHAEUSEUNTERTEIL	70.325.1028.9	771	GEHAEUSEUNTERTEIL	71.331.1635.1	634	GEHAEUSEUNTERTEIL	73.331.6435.0	729
GEHAEUSEUNTERTEIL	70.325.1628.0	639	GEHAEUSEUNTERTEIL	71.331.2435.0	634	GEHAEUSEUNTERTEIL	73.331.6435.1	729
GEHAEUSEUNTERTEIL	70.325.1628.9	771	GEHAEUSEUNTERTEIL	71.331.2435.1	634	GEHAEUSEUNTERTEIL	73.333.4035.0	729
GEHAEUSEUNTERTEIL	70.325.2428.0	639	GEHAEUSEUNTERTEIL	71.333.1035.0	635	GEHAEUSEUNTERTEIL	73.333.4035.1	729
GEHAEUSEUNTERTEIL	70.325.2428.9	771	GEHAEUSEUNTERTEIL	71.333.1035.1	635	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	73.333.6435.0	729
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	70.325.4828.0 70.325.4828.9	771	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	71.333.1635.0 71.333.1635.1	■ 635 ■ 635	GEHAEUSEUNTERTEIL	73.333.6435.1 73.334.4035.0	729 638
GEHAEUSEUNTERTEIL	70.330.0628.9	770	GEHAEUSEUNTERTEIL	71.333.2435.0	■ 635	GEHAEUSEUNTERTEIL	73.334.4035.1	638
GEHAEUSEUNTERTEIL	70.330.0635.0	634	GEHAEUSEUNTERTEIL	71.333.2435.1	■ 635	GEHAEUSEUNTERTEIL	73.334.6435.0	638
GEHAEUSEUNTERTEIL	70.330.0635.1	634	GEHAEUSEUNTERTEIL	71.340.1035.0	635	GEHAEUSEUNTERTEIL	73.334.6435.1	638
GEHAEUSEUNTERTEIL	70.330.1028.9	770	GEHAEUSEUNTERTEIL	71.340.1035.1	635	GEHAEUSEUNTERTEIL	73.335.4035.0	638
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	70.330.1035.0	638	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	71.340.1635.0	635	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	73.335.4035.1	638
GEHAEUSEUNTERTEIL	70.330.1035.1 70.330.1635.0	638	GEHAEUSEUNTERTEIL	71.340.1635.1 71.340.2435.0	635 635	GEHAEUSEUNTERTEIL	73.335.6435.0 73.335.6435.1	638 638
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	70.330.1635.1 70.330.2428.9	638 770 638	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	71.340.2435.1 71.341.1035.0	■ 635 ■ 635	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	73.337.4035.0 73.337.4035.1	639 639
GEHAEUSEUNTERTEIL	70.330.2435.0	638	GEHAEUSEUNTERTEIL	71.341.1035.1	■ 635	GEHAEUSEUNTERTEIL	73.337.6435.0	■ 639
GEHAEUSEUNTERTEIL	70.330.2435.1	638	GEHAEUSEUNTERTEIL	71.341.1635.0	■ 635	GEHAEUSEUNTERTEIL	73.337.6435.1	■ 639
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	70.331.0628.9 70.331.0635.0	770	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	71.341.1635.1 71.341.2435.0	635	GEHAFUSFUNTERTEIL	73.340.4035.0 73.340.4035.1	731
GEHAEUSEUNTERTEIL	70.331.0635.1	634	GEHAEUSEUNTERTEIL	71.341.2435.1	635	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	73.340.6435.0	731
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	70.331.1028.9 70.331.1035.0	770 638 638	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	71.342.1035.0 71.342.1035.1	■ 635 ■ 635	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	73.340.6435.1 73.341.4035.0	731 731
GEHAEUSEUNTERTEIL	70.331.1035.1	638	GEHAEUSEUNTERTEIL	71.342.1635.0	635	GEHAEUSEUNTERTEIL	73.341.4035.1	731
GEHAEUSEUNTERTEIL	70.331.1635.0	638	GEHAEUSEUNTERTEIL	71.342.1635.1	635	GEHAEUSEUNTERTEIL	73.341.6435.0	731
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	70.331.1635.1 70.331.2428.9	638	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	71.342.2435.0 71.342.2435.1	635	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	73.341.6435.1 73.342.4035.0	731
GEHAEUSEUNTERTEIL	70.331.2435.0	638	GEHAEUSEUNTERTEIL	71.343.1035.0	635	GEHAEUSEUNTERTEIL	73.342.4035.1	731
GEHAEUSEUNTERTEIL	70.331.2435.1	■ 638	GEHAEUSEUNTERTEIL	71.343.1035.1	■ 635	GEHAEUSEUNTERTEIL	73.342.6435.0	731
GEHAEUSEUNTERTEIL	70.331.4828.9	■ 770	GEHAEUSEUNTERTEIL	71.343.1635.0	■ 635	GEHAEUSEUNTERTEIL	73.342.6435.1	731
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	70.331.4835.0 70.331.4835.1	634 634 634	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	71.343.1635.1 71.343.2435.0	■ 635 ■ 635	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	73.343.4035.0 73.343.4035.1	731 731
GEHAEUSEUNTERTEIL	70.331.4835.3	634	GEHAEUSEUNTERTEIL	71.343.2435.1	635	GEHAEUSEUNTERTEIL	73.343.6435.0	731

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GEHAEUSEUNTERTEIL	73.344.4035.0	639	GEHAEUSEUNTERTEIL	77.331.1035.0	646	IVB WK 4/D10	Z7.281.8027.0	162
GEHAEUSEUNTERTEIL	73.344.4035.1	639	GEHAEUSEUNTERTEIL	77.331.1035.1	646	IVB WK 4/D11	Z7.281.8127.0	162
GEHAEUSEUNTERTEIL	73.344.6435.0	639	GEHAEUSEUNTERTEIL	77.331.1635.0	646	IVB WK 4/D12	Z7.281.8227.0	112
GEHAEUSEUNTERTEIL	73.344.6435.1	639	GEHAEUSEUNTERTEIL	77.331.1635.1	646	IVB WK 4/DEU- 2	Z7.271.0227.0	113
GEHAEUSEUNTERTEIL	73.345.4035.0	639	GEHAEUSEUNTERTEIL	77.331.2435.0	646	IVB WK 4/DEU- 3	Z7.271.0327.0	113
GEHAEUSEUNTERTEIL	73.345.4035.1	639	GEHAEUSEUNTERTEIL	77.331.2435.1	646	IVB WK 4/DEU- 4	Z7.271.0427.0	162
GEHAEUSEUNTERTEIL	73.345.6435.0	639	GEHAEUSEUNTERTEIL	77.333.1035.0	647	IVB WK 4/DEU- 5	Z7.271.0527.0	162
GEHAEUSEUNTERTEIL	73.345.6435.1	639	GEHAEUSEUNTERTEIL	77.333.1035.1	647	IVB WK 4/DEU- 6	Z7.271.0627.0	162
GEHAEUSEUNTERTEIL	73.346.4035.0	639	GEHAEUSEUNTERTEIL	77.333.1635.0	647	IVB WK 4/DEU- 7	Z7.271.0727.0	162
GEHAEUSEUNTERTEIL	73.346.4035.1	■ 639	GEHAEUSEUNTERTEIL	77.333.1635.1	■ 647	IVB WK 4/DEU- 8	Z7.271.0827.0	162
GEHAEUSEUNTERTEIL	73.346.6435.0	■ 639	GEHAEUSEUNTERTEIL	77.333.2435.0	■ 647	IVB WK 4/DEU- 9	Z7.271.0927.0	162
GEHAEUSEUNTERTEIL	73.346.6435.1	■ 639	GEHAEUSEUNTERTEIL	77.333.2435.1	647	IVB WK 4/DEU-10	Z7.271.1027.0	162
GEHAEUSEUNTERTEIL	73.347.4035.0	■ 639	GEHAEUSEUNTERTEIL	77.340.1035.0	647	IVB WK 4/DEU-11	Z7.271.1127.0	162
GEHAEUSEUNTERTEIL	73.347.4035.1	639	GEHAEUSEUNTERTEIL	77.340.1035.1	647	IVB WK 4/DEU-12	Z7.271.1227.0	113
GEHAEUSEUNTERTEIL	73.347.6435.0	639	GEHAEUSEUNTERTEIL	77.340.1635.0	647	IVB WK 2,5-3D- 2	Z7.270.0227.0	118
GEHAEUSEUNTERTEIL	73.347.6435.1	639	GEHAEUSEUNTERTEIL	77.340.1635.1	647	IVB WK 2,5-3D- 3	Z7.270.0327.0	118
GEHAEUSEUNTERTEIL	76.320.0729.0	713	GEHAEUSEUNTERTEIL	77.340.2435.0	647	IVB WK 2,5-3D- 4	Z7.270.0427.0	162
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	76.320.0753.0 76.320.1528.0	713 723 723	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	77.340.2435.1 77.341.1035.0 77.341.1035.1	647 647 647	IVB WK 2,5-3D- 5 IVB WK 2,5-3D- 6	Z7.270.0527.0 Z7.270.0627.0	162 162 162
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	76.320.2528.0 76.321.0729.0 76.321.0753.0	713	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	77.341.1635.1 77.341.1635.0 77.341.1635.1	647	IVB WK 2,5-3D- 7 IVB WK 2,5-3D- 8 IVB WK 2,5-3D- 9	Z7.270.0727.0 Z7.270.0827.0 Z7.270.0927.0	162 162 162
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	76.322.0736.0 76.322.0736.1	713 713 713	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	77.341.2435.0 77.341.2435.1	647 647 647	IVB WK 2,5-3D- 10 IVB WK 2,5-3D- 11	Z7.270.1027.0 Z7.270.1127.0	162 162
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	76.322.0760.1 76.325.1528.0	713 713 725	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	77.342.1035.0 77.342.1035.1	647 647	IVB WK 2,5-3D- 12 IVB WK 2,5-3D- M-70	Z7.270.1127.0 Z7.270.1227.0 Z7.270.0027.0	118 162
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	76.325.2528.0 76.326.4028.0	725 725 723	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	77.342.1635.1 77.342.1635.0 77.342.1635.1	647 647	IVB WK 2,5-K 6 BLAU IVB WK 2,5-K 6 BLAU	Z7.267.0627.6 Z7.267.1127.6	160 160
GEHAEUSEUNTERTEIL	76.326.6428.0	723	GEHAEUSEUNTERTEIL	77.342.2435.0	647	IVB WK 2,5-K 6 ROT	Z7.267.0627.5	160
GEHAEUSEUNTERTEIL	76.327.4028.0	725	GEHAEUSEUNTERTEIL	77.342.2435.1	647	IVB WK 2,5-K 7 BLAU	Z7.267.0727.6	160
GEHAEUSEUNTERTEIL	76.327.6428.0	725	GEHAEUSEUNTERTEIL	77.343.1035.0	647	IVB WK 2,5-K 7 ROT	Z7.267.0727.5	160
GEHAEUSEUNTERTEIL	76.330.1535.0	723	GEHAEUSEUNTERTEIL	77.343.1035.1	647	IVB WK 2,5-K 9 BLAU	Z7.267.0927.6	160
GEHAEUSEUNTERTEIL	76.330.1535.1	723	GEHAEUSEUNTERTEIL	77.343.1635.0	647	IVB WK 2,5-K 9 ROT	Z7.267.0927.5	160
GEHAEUSEUNTERTEIL	76.330.2535.0	723	GEHAEUSEUNTERTEIL	77.343.1635.1	647	IVB WK 2,5-K 11 ROT	Z7.267.1127.5	160
GEHAEUSEUNTERTEIL	76.330.2535.1	723	GEHAEUSEUNTERTEIL	77.343.2435.0	647	IVB WK 2,5-K- 2 BLAU	Z7.267.0227.6	118
GEHAEUSEUNTERTEIL	76.330.4035.0	723	GEHAEUSEUNTERTEIL	77.343.2435.1	647	IVB WK 2,5-K- 2 ROT	Z7.267.0227.5	118
GEHAEUSEUNTERTEIL	76.330.4035.1	723	GEHAEUSEUNTERTEIL	99.700.3329.7	773	IVB WK 2,5-K- 3 BLAU	Z7.267.0327.6	160
GEHAEUSEUNTERTEIL	76.330.6435.0	723	GEHAEUSEUNTERTEIL	99.702.3329.7	773	IVB WK 2,5-K- 3 ROT	Z7.267.0327.5	160
GEHAEUSEUNTERTEIL	76.330.6435.1	723	GEHAEUSEUNTERTEIL	99.704.3329.7	773	IVB WK 2,5-K- 4 BLAU	Z7.267.0427.6	160
GEHAEUSEUNTERTEIL	76.331.1535.0	723	GEHAEUSEUNTERTEIL	99.706.3329.7	773	IVB WK 2,5-K- 4 ROT	Z7.267.0427.5	160
GEHAEUSEUNTERTEIL	76.331.1535.1	723	GLEITMUTTER	05.516.9510.0	215	IVB WK 2,5-K- 5 BLAU	Z7.267.0527.6	160
GEHAEUSEUNTERTEIL	76.331.2535.0	723	GRUNDZANGE	95.101.0800.0	291	IVB WK 2,5-K- 5 ROT	Z7.267.0527.5	160
GEHAEUSEUNTERTEIL	76.331.2535.1	723	GRUNDZANGE	95.101.0800.0	■ 631	IVB WK 2,5-K- 8 BLAU	Z7.267.0827.6	160
GEHAEUSEUNTERTEIL	76.331.4035.0	723	GRUNDZANGE	95.101.0800.0	■ 798	IVB WK 2,5-K- 8 ROT	Z7.267.0827.5	160
GEHAEUSEUNTERTEIL	76.331.4035.1	723	GUMMISTOPFEN GR.	05.562.3283.0	755	IVB WK 2,5-K- 10 BLAU	Z7.267.1027.6	160
GEHAEUSEUNTERTEIL	76.331.6435.0	723	GUMMISTOPFEN KL.	05.562.3183.0	755	IVB WK 2,5-K- 10 ROT	Z7.267.1027.5	160
GEHAEUSEUNTERTEIL	76.331.6435.1	723	HALTEFEDER	05.549.0500.0	128	IVB WK 2,5-K- 12 BLAU	Z7.267.1227.6	118
GEHAEUSEUNTERTEIL	76.333.4035.0	723	HALTERAHMEN 10	Z5.574.1053.0	782	IVB WK 2,5-K- 12 ROT	Z7.267.1227.5	118
GEHAEUSEUNTERTEIL	76.333.4035.1	723	HALTERAHMEN 16	Z5.574.1653.0	782	IVB WK 2,5-K-M-70 BLAU	Z7.267.0027.6	160
GEHAEUSEUNTERTEIL	76.333.6435.0	723	HALTERAHMEN 24	Z5.574.2453.0	782	IVB WK 2,5-K-M-70 ROT	Z7.267.0027.5	160
GEHAEUSEUNTERTEIL	76.333.6435.1	723	HALTERAHMEN 2x6	Z5.574.1253.0	782	IVB WK4 E - 2	Z7.255.2227.0	114
GEHAEUSEUNTERTEIL	76.334.1535.0	723	HALTERAHMEN 6	Z5.574.0653.0	782	IVB WK4 E - 3	Z7.255.2327.0	160
GEHAEUSEUNTERTEIL	76.334.1535.1	723	HOCHPOL.	05.502.0000.0	683	IVB WK4 E - 4	Z7.255.2427.0	160
GEHAEUSEUNTERTEIL	76.334.2535.0	723	IN 46228-A35 -18	06.600.5027.0	796	IVB WK4 E - 5	Z7.255.2527.0	160
GEHAEUSEUNTERTEIL	76.334.2535.1	723	ISOL.VERB.KAMM	Z7.258.1225.0	416	IVB WK4 E - 6	Z7.255.2627.0	114
GEHAEUSEUNTERTEIL	76.334.4035.0	634	ISOL.VERB.KAMM	Z7.258.1225.0	781	IVB WK4 E - 7	Z7.255.2727.0	160
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	76.334.4035.1 76.334.6435.0	634 634 634	ISOL.VERB.KAMM ISOL.VERB.KAMM	Z7.258.1325.0 Z7.258.1425.0	781 781 781	IVB WK4 E - 8 IVB WK4 E - 9 IVB WK4 E - 10	Z7.255.2827.0 Z7.255.2927.0	160 160 160
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	76.334.6435.1 76.335.1535.0 76.335.1535.1	723	ISOL.VERB.KAMM ISOL.VERB.KAMM ISOL.VERB.KAMM	Z7.258.1525.0 Z7.258.1625.0 Z7.258.1725.0	781	IVB WK4 E - 10 IVB WK4 E - 11 IVB WK4 E - 12	Z7.255.3027.0 Z7.255.3127.0 Z7.255.3227.0	160
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	76.335.2535.0 76.335.2535.1	723 723 723	ISOL.VERB.KAMM ISOL.VERB.KAMM	Z7.258.1725.0 Z7.258.1825.0 Z7.258.1925.0	781	IVB WK4 E/U- 2 IVB WK4 E/U- 3	Z7.271.2227.0 Z7.271.2327.0 Z7.271.2327.0	160 145 145
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	76.335.4035.0 76.335.4035.1	634 634	ISOL.VERB.KAMM ISOL.VERB.ST.	Z7.258.1925.0 Z7.258.2025.0 Z7.258.0225.0	781 781 204	IVB WK4 E/U- 4 IVB WK4 E/U- 5	Z7.271.2427.0 Z7.271.2527.0 Z7.271.2527.0	162 162
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	76.335.6435.0 76.335.6435.1	634 634	ISOL.VERB.ST. ISOL.VERB.ST.	Z7.258.0325.0 Z7.258.1025.0	204 204 204	IVB WK4 E/U- 6 IVB WK4 E/U- 7	Z7.271.2627.0 Z7.271.2727.0	162 162
GEHAEUSEUNTERTEIL	76.337.4035.0	635	ISOLIERGEHAEUSE	01.001.5053.0	584	IVB WK4 E/U- 8	Z7.271.2827.0	162
GEHAEUSEUNTERTEIL	76.337.4035.1	635	ISOLIERGEHAEUSE	01.001.5153.0	584	IVB WK4 E/U- 9	Z7.271.2927.0	162
GEHAEUSEUNTERTEIL	76.337.6435.0	635	ISOLIERGEHAEUSE	01.001.5353.0	586	IVB WK4 E/U-10	Z7.271.3027.0	162
GEHAEUSEUNTERTEIL	76.337.6435.1	635	ISOLIERGEHAEUSE	01.001.5453.0	586	IVB WK4 E/U-11		162
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	76.340.4035.0 76.340.6435.0	725 725	ISOLIFRGEHAFUSE	01.001.5653.0 01.001.5753.0	588 588	IVB WK4 E/U-12 IVB WKI4 - 2	Z7.271.3127.0 Z7.271.3227.0 Z7.271.4227.0	145 139
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	76.341.4035.0 76.341.6435.0	725 725	ISOLIERGEHAEUSE ISOLIERGEHAEUSE ISOLIERGEHAEUSE	01.001.5853.0 01.001.6553.0	■ 588 ■ 590	IVB WKI4 - 3 IVB WKI4 -12	Z7.271.4327.0 Z7.271.5227.0	139 69
GEHAEUSEUNTERTEIL	76.342.4035.0	725	ISOLIERGEHAEUSE	01.001.6653.0	590	IVB WKIF 16-2	Z7.284.6227.0	25
GEHAEUSEUNTERTEIL	76.342.6435.0	725	ISOLIERGEHAEUSE	01.001.6753.0	590	IVBS WK4 E - 2	Z7.256.4227.0	114
GEHAEUSEUNTERTEIL	76.343.4035.0	725	IVB 0,5 WK4 2	Z7.255.0227.0	86	IVBS WK4 E - 3	Z7.256.4327.0	160
GEHAEUSEUNTERTEIL	76.343.6435.0	725	IVB 0,5 WK4 3	Z7.255.0327.0	86	IVBS WK4 E - 4	Z7.256.4427.0	160
GEHAEUSEUNTERTEIL	76.344.4035.0	635	IVB 0,5 WK4 4	Z7.255.0427.0	86	IVBS WK4 E - 5	Z7.256.4527.0	160
GEHAEUSEUNTERTEIL	76.344.4035.1	635	IVB 0,5 WK4 5	Z7.255.0527.0	86	IVBS WK4 E - 6	Z7.256.4627.0	114
GEHAEUSEUNTERTEIL	76.344.6435.0	635	IVB 0,5 WK4 6	Z7.255.0627.0	86	IVBS WK4 E - 7	Z7.256.4727.0	160
GEHAEUSEUNTERTEIL	76.344.6435.1	635	IVB 0,5 WK4 7	Z7.255.0727.0	86	IVBS WK4 E - 8	Z7.256.4827.0	160
GEHAEUSEUNTERTEIL	76.345.4035.0	635	IVB 0,5 WK4 8	Z7.255.0827.0	86	IVBS WK4 E - 9	Z7.256.4927.0	160
GEHAEUSEUNTERTEIL	76.345.4035.1	635	IVB 0,5 WK4 9	Z7.255.0927.0	86	IVBS WK4 E - 10	Z7.256.5027.0	160
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	76.345.6435.0 76.345.6435.1	635 635	IVB 0,5 WK4 10 IVB 0,5 WK4 11	Z7.255.1027.0 Z7.255.1127.0	86 86	IVBS WK4 E - 11 IVBS WK4 E - 12	Z7.256.5127.0 Z7.256.5227.0 Z7.280.2227.0 Z7.280.2227.0	160 160
GEHAEUSEUNTERTEIL	76.346.4035.0	635	IVB 0,5 WK4 12	Z7.255.1227.0	86	IVBWK 2,5 - 2	Z7.280.2227.0	102
GEHAEUSEUNTERTEIL	76.346.4035.1	635	IVB 1 WK4 2	Z7.255.4227.0	86	IVBWK 2,5 - 2	Z7.280.2227.0	310
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	76.346.6435.0 76.346.6435.1 76.347.4035.0	635 635 635	IVB 1 WK4 3 IVB 1 WK4 4 IVB 1 WK4 5	Z7.255.4327.0 Z7.255.4427.0	■ 86 ■ 86 ■ 86	IVBWK 2,5 - 3 IVBWK 2,5 - 3 IVBWK 2,5 - 4	Z7.280.2327.0 Z7.280.2327.0 Z7.280.2427.0	310 102 162
GEHAEUSEUNTERTEIL	76.347.4035.1	635	IVB 1 WK4 6 IVB 1 WK4 7	Z7.255.4527.0 Z7.255.4627.0	86 86	IVBWK 2,5 - 4 IVBWK 2,5 - 5 IVBWK 2,5 - 6	Z7.280.2527.0	162 162 162
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	76.347.6435.0 76.347.6435.1 77.320.1028.0	635 635 646	IVB 1 WK4 7 IVB 1 WK4 8 IVB 1 WK4 9	Z7.255.4727.0 Z7.255.4827.0 Z7.255.4927.0	86 86	IVBWK 2,5 - 6 IVBWK 2,5 - 7 IVBWK 2,5 - 8	Z7.280.2627.0 Z7.280.2727.0 Z7.280.2827.0	162
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	77.320.1628.0 77.320.2428.0	646 646	IVB 1 WK4 10 IVB 1 WK4 11	Z7.255.4927.0 Z7.255.5027.0 Z7.255.5127.0	86 86	IVBWK 2,5 - 6 IVBWK 2,5 - 9 IVBWK 2,5 -10	Z7.280.2927.0 Z7.280.3027.0 Z7.280.3027.0	162 162 162
GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	77.325.1028.0 77.325.1628.0	647 647	IVB 1 WK4 12 IVB WK 4/D 2	Z7.255.5127.0 Z7.255.5227.0 Z7.281.7227.0	86 112	IVBWK 2,5 -10 IVBWK 2,5 -11 IVBWK 2,5 -12	Z7.280.3127.0 Z7.280.3227.0 Z7.280.3227.0	162 310
GEHAEUSEUNTERTEIL	77.325.2428.0	647	IVB WK 4/D 3	Z7.281.7327.0	112	IVBWK 2,5 -12	Z7.280.3227.0	102
GEHAEUSEUNTERTEIL	77.330.1035.0	646	IVB WK 4/D 4	Z7.281.7427.0	162	IVBWK 4 - 2	Z7.281.1227.0	78
GEHAEUSEUNTERTEIL	77.330.1035.1	646	IVB WK 4/D 5	Z7.281.7527.0	162	IVBWK 4 - 3	Z7.281.1327.0	78
GEHAEUSEUNTERTEIL	77.330.1635.0	646	IVB WK 4/D 6	Z7.281.7627.0	162	IVBWK 4 - 4	Z7.281.1427.0	78
GEHAEUSEUNTERTEIL	77.330.1635.1	646	IVB WK 4/D 7	Z7.281.7727.0	162	IVBWK 4 - 5	Z7.281.1527.0	78
GEHAEUSEUNTERTEIL	77.330.2435.0	646	IVB WK 4/D 8	Z7.281.7827.0	162	IVBWK 4 - 6	Z7.281.1627.0	78
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Туре	Part no.	section / page	Туре	Part no.	section / page	Type		section / page
IVBWK 4 - 7	Z7.281.1727.0	87	KL 16 / 16 PA DS	29.401.1653.0	256	KL.ADA. ST. 6WR	70.135.0653.3	643
IVBWK 4 - 8	Z7.281.1827.0	87	KL 16 / 20 PA	29.400.2053.0	256	KL.ADA. ST. 6WR	70.135.0653.4	643
IVBWK 4 - 9	Z7.281.1927.0	87	KL 16 / 20 PA DS	29.401.2053.0	256	KL.ADA. ST. 6WR	72.015.0653.0	693
IVBWK 4 -10	Z7.281.2027.0	87	KL 16 / 4 PA	29.400.0453.0	256	KL.ADA. ST. 6WR	72.115.0653.0	655
IVBWK 4 -11	Z7.281.2127.0	87	KL 16 / 4 PA DS	29.401.0453.0	256	KL.ADA. ST. 6WR	72.115.0653.4	655
IVBWK 4-11 IVBWK 4-12 IVBWK 6-2	Z7.281.2227.0 Z7.282.2227.0	87 87 103	KL 16 / 6 PA KL 16 / 6 PA DS	29.400.0653.0 29.401.0653.0	256 256 256	KL.ADA. ST.10WL KL.ADA. ST.10WL	70.110.1053.4 70.110.1053.3 70.110.1053.4	631
IVBWK 6 - 3 IVBWK 6 - 4	Z7.282.2327.0 Z7.282.2327.0 Z7.282.2427.0	101 163	KL 16 / 8 PA KL 16 / 8 PA DS	29.400.0853.0 29.401.0853.0	256 256 256	KL.ADA. ST.10WL KL.ADA. ST.10WL KL.ADA. ST.10WL	70.130.1053.4 70.130.1053.4 70.130.1053.4	631 643 643
IVBWK 6 - 5 IVBWK 6 - 6	Z7.282.2527.0 Z7.282.2627.0 Z7.282.2627.0	163 163	KL 20 / 2 DS PA KL 20 / 2 PA	29.500.1253.0 29.500.0253.0	264 264	KL.ADA. ST.10WL KL.ADA. ST.10WL	72.110.1053.4 72.110.1053.4 72.110.1053.4	655 655
IVBWK 6 - 7 IVBWK 6 - 8	Z7.282.2727.0 Z7.282.2827.0 Z7.282.2827.0	163 163	KL 20 / 4 DS PA KL 20 / 4 PA	29.500.1353.0 29.500.0353.0	264 264	KL.ADA. ST.10WR KL.ADA. ST.10WR	70.115.1053.3 70.115.1053.4	631 631
IVBWK 6 - 9	Z7.282.2927.0	163	KL 24 / 2	29.500.9253.0	265	KL.ADA. ST.10WR	70.135.1053.3	643
IVBWK 6 -10	Z7.282.3027.0	163	KL 24 / 3	29.500.9353.0	265	KL.ADA. ST.10WR	70.135.1053.4	643
IVBWK 6 -11	Z7.282.3127.0	163	KL 24 / 3 SL	29.502.9353.0	265	KL.ADA. ST.10WR	72.115.1053.0	655
IVBWK 6 -12	Z7.282.3227.0	103	KL 24 / 4	29.500.9453.0	265	KL.ADA. ST.10WR	72.115.1053.4	655
IVBWK 10 - 4	Z7.283.2427.0	78	KL 24 / 5	29.500.9553.0	265	KL.ADA. ST.16WL	70.110.1653.3	631
IVBWKF 2,5 - 2	Z7.280.6227.0	19	KL 24 / 5 SL	29.502.9553.0	265	KL.ADA. ST.16WL	70.110.1653.4	631
IVBWKF 2,5 - 2	Z7.280.6227.0	308	KL 28 / 6 DS PA	33.011.0653.0	214	KL.ADA. ST.16WL	72.110.1653.0	■ 655
IVBWKF 2,5 - 3	Z7.280.6327.0	308	KL 29 / 6 DS PA	33.041.0653.0	214	KL.ADA. ST.16WL	72.110.1653.4	■ 655
IVBWKF 2,5 - 3	Z7.280.6327.0	19	KL 30 / 3 DS PA	29.500.4053.0	265	KL.ADA. ST.16WR	70.115.1653.3	631
IVBWKF 2,5 - 4	Z7.280.6427.0	308	KL 30 / 3 PA	29.500.3053.0	265	KL.ADA. ST.16WR	70.115.1653.4	631
IVBWKF 2,5 - 4	Z7.280.6427.0	20	KL 58 / 3 / 1	29.130.1353.0	268	KL.ADA. ST.16WR	72.115.1653.0	655
IVBWKF 2,5 - 5	Z7.280.6527.0	20	KL 58 / 3 S / 1	29.131.1353.0	269	KL.ADA. ST.16WR	72.115.1653.4	655
IVBWKF 2,5 - 5	Z7.280.6527.0	308	KL 58 / 3 S R / 1	29.131.2353.0	269	KL.ADA. ST.24WL	70.110.2453.3	631
IVBWKF 2,5 - 6	Z7.280.6627.0	20	KL 58 / 5 / 1	29.130.1553.0	268	KL.ADA. ST.24WL	70.110.2453.4	631
IVBWKF 2.5 - 6	Z7.280.6627.0	308	KL 58 / 5 S / 1	29.131.1553.0	269	KL.ADA. ST.24WL	72.110.2453.0	655
IVBWKF 2,5 - 7 IVBWKF 2,5 - 7	Z7.280.6627.0 Z7.280.6727.0 Z7.280.6727.0	308 308 19	KL 58 / 5 S R / 1 KL 58 / 6 / 1	29.131.1553.0 29.131.2553.0 29.130.1653.0	269 269 268	KL.ADA. ST.24WL KL.ADA. ST.24WR	72.110.2453.0 72.110.2453.4 70.115.2453.3	655 631
IVBWKF 2,5 - 8 IVBWKF 2,5 - 8	Z7.280.6827.0 Z7.280.6827.0 Z7.280.6827.0	308 20	KL 58 / 6 S / 1 KL 58 / 6 S R / 1	29.131.1653.0 29.131.2653.0	269 269 269	KL.ADA. ST.24WR KL.ADA. ST.24WR	70.115.2453.4 70.115.2453.4 72.115.2453.0	631 655
IVBWKF 2,5 - 9 IVBWKF 2,5 - 9	Z7.280.6927.0 Z7.280.6927.0 Z7.280.6927.0	20	KL.ADA. BU. 3WL KL.ADA. BU. 3WL	70.120.0353.3 70.120.0353.4	643 643	KL.ADA. ST.24WR KL.ADA. ST.40WL	72.115.2453.4 73.110.4053.0	655 719
IVBWKF 2,5 - 10	Z7.280.7027.0	20	KL.ADA. BU. 3WR	70.125.0353.3	643	KL.ADA. ST.40WR	73.115.4053.0	719
IVBWKF 2,5 - 10	Z7.280.7027.0		KL.ADA. BU. 3WR	70.125.0353.4	643	KL.ADA. ST.64WL	73.110.6453.0	719
IVBWKF 4 - 2 IVBWKF 4 - 10	Z7.261.1227.0 Z7.261.2027.0	308 20 20	KL.ADA. BU. 6WL KL.ADA. BU. 6WL	70.000.0653.0 70.100.0653.3	689 631	KL.ADA. ST.64WR KL.ADA. STF 6WL	73.115.6453.0 70.111.0653.0	719 631
IVBWKF 10- 2	Z7.283.8227.0	21	KL.ADA. BU. 6WL	70.100.0653.4	631	KL.ADA. STF 6WR	70.116.0653.0	631
IVBWKF 16- 2	Z7.284.4227.0	21	KL.ADA. BU. 6WL	70.120.0653.3	643	KL.ADA. STF10WL	70.111.1053.0	631
IVBWKF 4 - 3	Z7.261.1327.0	20	KL.ADA. BU. 6WL	70.120.0653.4	■ 643	KL.ADA. STF10WL	70.111.1653.0	■ 631
IVBWKF 4 - 4	Z7.261.1427.0	20	KL.ADA. BU. 6WL	72.000.0653.0	■ 693	KL.ADA. STF10WR	70.116.1053.0	■ 631
IVBWKF 4 - 5	Z7.261.1527.0	20	KL.ADA. BU. 6WL	72.100.0653.0	■ 655	KL.ADA. STF16WR	70.116.1653.0	■ 631
IVBWKF 4 - 6	Z7.261.1627.0	20	KL.ADA. BU. 6WL	72.100.0653.4	■ 655	KL.ADA. STF24WL	70.111.2453.0	■ 631
IVBWKF 4 - 7	Z7.261.1727.0	20	KL.ADA. BU. 6WR	70.005.0653.0	■ 689	KL.ADA. STF24WR	70.116.2453.0	■ 631
IVBWKF 4 - 8	Z7.261.1827.0	20	KL.ADA. BU. 6WR	70.105.0653.3	■ 631	KL.ADA. BU.4/6WR	72.107.1053.0	■ 699
IVBWKF 4 - 9	Z7.261.1927.0	20	KL.ADA. BU. 6WR	70.105.0653.4	631	KL.ADA. ST.4/6WR	72.117.1053.0	699
IVBWKF 6- 2	Z7.282.4227.0	21	KL.ADA. BU. 6WR	70.125.0653.3	643	KL.ADAP.BUF 3P WL	70.121.0353.0	643
IVBWKI35 - 2	Z7.285.4227.0	79	KL.ADA. BU. 6WR	70.125.0653.4	643	KL.ADAP.BUF 3P WR	70.126.0353.0	643
IVBWKI35 - 3	Z7.285.4327.0	79	KL.ADA. BU. 6WR	72.005.0653.0	693	KL.ADAP.BUF 3P WR	70.136.0653.0	643
IVBWKI35 - 4	Z7.285.4427.0	79	KL.ADA. BU. 6WR	72.105.0653.0	655	KL.ADAP.BUF 3P WR	70.136.1053.0	643
IVBWKI35 - 5 IVBWKI35 - 6	Z7.285.4527.0 Z7.285.4527.0 Z7.285.4627.0	79 79 79	KL.ADA. BU. 6WR KL.ADA. BU.10WL	72.105.0653.4 72.100.1053.3	■ 655 ■ 655 ■ 631	KL.ADAP.BUF 6P WL KL.ADAP.BUF 6P WL	70.121.0653.0 72.101.0653.0	643 643 655
IVBWKN10 - 2 IVBWKN10 - 3	Z7.283.2227.0 Z7.283.2327.0 Z7.283.2327.0	78 78 78	KL.ADA. BU.10WL KL.ADA. BU.10WL	70.100.1053.3 70.100.1053.4 70.120.1053.3	631 643	KL.ADAP.BUF 6P WR KL.ADAP.BUF 6P WR	70.126.0653.0 72.106.0653.0	643 655
IVBWKN10 - 5	Z7.283.2527.0	78	KL.ADA. BU.10WL	70.120.1053.4	643	KL.ADAP.BUF10P WL	70.121.1053.0	643
IVBWKN10 - 6	Z7.283.2627.0	78	KL.ADA. BU.10WL	72.100.1053.0	655	KL.ADAP.BUF10P WL	72.101.1053.0	655
IVBWKN10 - 7	Z7.283.2727.0	163	KL.ADA. BU.10WL	72.100.1053.4	655	KL.ADAP.BUF10P WR	70.126.1053.0	643
IVBWKN10 - 8	Z7.283.2827.0	163	KL.ADA. BU.10WR	70.105.1053.3	631	KL.ADAP.BUF10P WR	72.106.1053.0	655
IVBWKN10 - 9	Z7.283.2927.0	163	KL.ADA. BU.10WR	70.105.1053.4	■ 631	KL.ADAP.BUF16P WL	72.101.1653.0	■ 655
IVBWKN10 -10	Z7.283.3027.0	163	KL.ADA. BU.10WR	70.125.1053.3	■ 643	KL.ADAP.BUF16P WR	72.106.1653.0	■ 655
IVBWKN10 -11	Z7.283.3127.0	163	KL.ADA. BU.10WR	70.125.1053.4	■ 643	KL.ADAP.BUF24P WL	72.101.2453.0	■ 655
IVBWKN10 -12	Z7.283.3227.0	103	KL.ADA. BU.10WR	72.105.1053.0	■ 655	KL.ADAP.BUF24P WR	72.106.2453.0	■ 655
IVBWKN16 - 2	Z7.284.2227.0	104	KL.ADA. BU.10WR	72.105.1053.4	655	KL.ADAP.STF 3P WL	70.131.0353.0	643
IVBWKN16 - 3	Z7.284.2327.0	104	KL.ADA. BU.16WL	70.100.1653.3	631	KL.ADAP.STF 3P WR	70.136.0353.0	643
IVBWKN16 - 4	Z7.284.2427.0	163	KL.ADA. BU.16WL	70.100.1653.4	631	KL.ADAP.STF 6P WL	70.131.0653.0	643
IVBWKN16 - 5	Z7.284.2527.0	163	KL.ADA. BU.16WL	72.100.1653.0	655	KL.ADAP.STF 6P WL	72.111.0653.0	655
IVBWKN16 - 6 IVBWKN16 - 7 IVBWKN16 - 8	Z7.284.2627.0 Z7.284.2727.0	163 163 163	KL.ADA. BU.16WL KL.ADA. BU.16WR KL.ADA. BU.16WR	72.100.1653.4 70.105.1653.3 70.105.1653.4	655 631 631	KL.ADAP.STF10P WL	/2.116.0653.0 70.131.1053.0 72.111.1053.0	655 643 655
IVBWKN16 - 9 IVBWKN16 - M-30	Z7.284.2727.0 Z7.284.2827.0 Z7.284.2927.0 Z7.284.2027.0	163 163	KL.ADA. BU.16WR KL.ADA. BU.16WR	72.105.1653.0 72.105.1653.4	655 655	KL.ADAP.STF10P WL KL.ADAP.STF10P WR KL.ADAP.STF16P WL	72.111.1053.0 72.116.1053.0 72.111.1653.0	655 655
IVBWKN16 -10	Z7.284.3027.0	163	KL.ADA. BU.24WL	70.100.2453.3	631	KL.ADAP.STF16P WR	72.116.1653.0	655
IVBWKN16 -11	Z7.284.3127.0	163	KL.ADA. BU.24WL	70.100.2453.4	631	KL.ADAP.STF24P WL	72.111.2453.0	655
IVBWKN16 -12	Z7.284.3227.0	104	KL.ADA. BU.24WL	72.100.2453.0	655	KL.ADAP.STF24P WR	72.116.2453.0	655
IVBWKN35 - 2	Z7.285.2227.0	105	KL.ADA. BU.24WL	72.100.2453.4	655	KL.LST.BEZ. TS15	Z7.311.2753.0	167
IVBWKN35 - 3 IVBWKN35 - 4	Z7.285.2327.0 Z7.285.2427.0	105 163	KL.ADA. BU.24WR KL.ADA. BU.24WR	70.105.2453.3 70.105.2453.4	631 631	KI 17 N/ 1 /S6 3	29 608 0153 0	267 267
IVBWKN35 - 5 IVBWKN35 - 6	Z7.285.2527.0 Z7.285.2627.0	163 163	KL.ADA. BU.24WR KL.ADA. BU.24WR	72.105.2453.0 72.105.2453.4	655 655	KL17 N/ 1 K/S6,3 KL17 N/ 2 /S6,3 KL17 N/ 2 K/S6,3	29.608.3153.0 29.608.0253.0 29.608.3253.0	267 267
IVBWKN35 - 7	Z7.285.2727.0	163	KL.ADA. BU.40WL	73.100.4053.0	719	KL17 N/ 3 /S6,3	29.608.0353.0	267
IVBWKN35 - 8	Z7.285.2827.0	163	KL.ADA. BU.40WR	73.105.4053.0	719	KL17 N/ 3 K/S6.3	29.608.3353.0	267
IVBWKN35 - 9	Z7.285.2927.0	163	KL.ADA. BU.64WL	73.100.6453.0	719	KL17 N/ 4 /S6,3	29.608.0453.0	267
IVBWKN35 - M-20	Z7.285.2027.0	163	KL.ADA. BU.64WR	73.105.6453.0	719	KL17 N/ 4 K/S6,3	29.608.3453.0	267
IVBWKN35 -10	Z7.285.3027.0	163	KL.ADA. BUF 6WL	70.101.0653.0	631	KL17 N/ 5 S6,3	29.608.0553.0	267
IVBWKN35 -11	Z7.285.3127.0	163	KL.ADA. BUF 6WR	70.106.0653.0	631	KL17 N/ 5 K/S6,3	29.608.3553.0	267
IVBWKN35 -12 IVK WK 4/DEU- 2 IVK WK 4/DEU- 6	Z7.285.3227.0 Z7.256.2227.0 Z7.256.2627.0	105 112	KL.ADA. BUF10WL KL.ADA. BUF10WR KL.ADA. BUF16WL	70.101.1053.0 70.106.1053.0 70.101.1653.0	631 631	KL17 N/ 6 /S6,3 KL17 N/ 6 K/S6,3 KL17 N/ 7 /S6,3	29.608.0653.0 29.608.3653.0 29.608.0753.0	267 267
K 15,5 - 20,5 K 19 - 27	Z2.803.2228.0 Z2.803.2328.0	112 210 210	KL.ADA. BUF16WR KL.ADA. BUF24WL	70.101.1653.0 70.106.1653.0 70.101.2453.0	631 631 631	KL17 N/ 7 /S6,3 KL17 N/ 7 K/S6,3 KL17 N/ 8 /S6,3	29.608.0753.0 29.608.3753.0 29.608.0853.0	267 267 267
K 26 - 34 KABELVERSCHRB.	Z2.803.2428.0 Z5.507.1321.0	210 210 776	KL.ADA. BUF24WR KL.ADA. ST. 3WL	70.101.2453.0 70.106.2453.0 70.130.0353.3	631	KL17 N/ 8 K/S6,3 KL17 N/ 9 /S6,3	29.608.3853.0 29.608.0953.0	267 267 267
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LEL 2,5/3 SCHWARZ	05.561.6753.0	308	LP.STIFTLEISTE	Z5.532.4425.0	317	M 20 x 1,5	Z5.507.9621.0	777
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LEL 4/3 SCHWARZ	05.561.8753.0	20	LP.STIFTLEISTE	Z5.540.0325.0	319	M 20 x 1,5 - PG 13,5	05.507.8121.0	779
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LP.STIFTLEISTE		318	LP.STIFTLEISTE	Z5.540.0625.0	319	M 25 x 1,5	05.507.4153.0	779
LP.STIFTLEISTE	Z5.530.0425.0	318	LP.STIFTLEISTE	Z5.540.0825.0	319	M 25 x 1,5	Z5.507.2321.0	776
LP.STIFTLEISTE	Z5.530.0525.0	318	LP.STIFTLEISTE	Z5.540.0925.0	319	M 25 x 1,5	Z5.507.6021.0	777
LP.STIFTLEISTE	Z5.530.0625.0	318	LP.STIFTLEISTE	Z5.540.1025.0	319	M 25 x 1,5	Z5.507.9721.0	777
LP.STIFTLEISTE	Z5.530.0725.0	318	LP.STIFTLEISTE	Z5.540.1125.0	319	M 25 x 1,5 - M 20 x 1,5	05.507.9121.0	778
LP.STIFTLEISTE	Z5.530.0825.0	318	LP.STIFTLEISTE	Z5.540.1225.0	319	M 25 x 1,5 - M 32 x 1,5	05.507.8821.0	778
LP.STIFTLEISTE	Z5.530.0925.0	318	LP.STIFTLEISTE	Z5.540.1325.0	319	M 25 x 1,5 - PG 21	05.507.8321.0	779
LP.STIFTLEISTE	Z5.530.1025.0	318	LP.STIFTLEISTE	Z5.540.1425.0	319	M 25x1,5 IP68	Z5.507.1553.0	776
LP.STIFTLEISTE	Z5.530.1125.0	318	LP.STIFTLEISTE	Z5.540.1525.0	319	M 32 x 1,5	05.507.4221.0	779
LP.STIFTLEISTE	Z5.530.1225.0	318	LP.STIFTLEISTE	Z5.540.1625.0	319	M 32 x 1,5	05.507.4253.0	779
LP.STIFTLEISTE	Z5.530.1325.0	318	LP.STIFTLEISTE	Z5.540.3225.0	319	M 32 x 1,5	Z5.507.2421.0	776
LP.STIFTLEISTE	Z5.530.1425.0	318	LP.STIFTLEISTE	Z5.540.3325.0	319	M 32 x 1,5	Z5.507.5221.0	777
LP.STIFTLEISTE	Z5.530.1525.0	318	LP.STIFTLEISTE	Z5.540.3425.0	319	M 32 x 1,5	Z5.507.6221.0	777
LP.STIFTLEISTE	Z5.530.1625.0	318	LP.STIFTLEISTE	Z5.540.3525.0	319	M 32 x 1,5	Z5.507.9821.0	777
LP.STIFTLEISTE	Z5.530.3225.0	318	LP.STIFTLEISTE	Z5.540.3625.0	319	M 32 x 1,5 IP68	Z5.507.1753.0	776
LP.STIFTLEISTE	Z5.530.3325.0	318	LP.STIFTLEISTE	Z5.540.3725.0	319	M 32 x 1,5 - M 25 x 1,5	05.507.9221.0	778
LP.STIFTLEISTE	Z5.530.3425.0	318	LP.STIFTLEISTE	Z5.540.3825.0	319	M 32 x 1,5 - M 40 x 1,5	05.507.8921.0	778
LP.STIFTLEISTE	Z5.530.3525.0	318	LP.STIFTLEISTE	Z5.540.3925.0	319	M 32 x 1,5 - PG 29	05.507.8421.0	779
LP.STIFTLEISTE	Z5.530.3625.0	318	LP.STIFTLEISTE	Z5.540.4025.0	319	M 40 x 1,5	05.507.4321.0	779
LP.STIFTLEISTE	Z5.530.3725.0	318	LP.STIFTLEISTE	Z5.540.4125.0	319	M 40 x 1,5	05.507.4353.0	779
LP.STIFTLEISTE	Z5.530.3825.0	318	LP.STIFTLEISTE	Z5.540.4225.0	319	M 40 x 1,5	Z5.507.6421.0	777
LP.STIFTLEISTE	Z5.530.3925.0	318	LP.STIFTLEISTE	Z5.540.4325.0	319	M 40 x 1,5 IP68	Z5.507.1921.0	776
LP.STIFTLEISTE	Z5.530.4025.0	318	LP.STIFTLEISTE	Z5.540.4425.0	319	M 40 x 1,5 - M 32 x 1,5	05.507.9321.0	778
LP.STIFTLEISTE	Z5.530.4125.0	318	LP.STIFTLEISTE	Z5.540.4525.0	319	M 40x1,5 IP68	Z5.507.1953.0	776
LP.STIFTLEISTE LP.STIFTLEISTE	Z5.530.4225.0 Z5.530.4325.0	318	LP.STIFTLEISTE LP.STIFTLEISTE	Z5.540.4625.0 Z5.540.6225.0	319 319	M-IAC 24 M-IDC 24	Z5.580.7800.0 Z5.580.8100.0	482
LP.STIFTLEISTE	Z5.530.4425.0	318	LP.STIFTLEISTE	Z5.540.6325.0	319	M25 x 1.5	Z5.507.5021.0	777
LP.STIFTLEISTE	Z5.530.4525.0	318	LP.STIFTLEISTE	Z5.540.6425.0	319	MAGAZ.M.25 BUCHS.	Z2.123.7400.0	800
LP.STIFTLEISTE	Z5.530.4625.0	318	LP.STIFTLEISTE	Z5.540.6525.0	319	MAGAZIN M. 25 BU.	Z2.123.7000.0	
LP.STIFTLEISTE LP.STIFTLEISTE	Z5.530.6225.0 Z5.530.6325.0	318 318	LP.STIFTLEISTE LP.STIFTLEISTE LP.STIFTLEISTE	Z5.540.6625.0 Z5.540.6725.0	319 319	MAGAZIN M. 25 BU. MAGAZIN M. 25 BU.	Z2.123.7100.0 Z2.123.7200.0	■ 800 ■ 800
LP.STIFTLEISTE	Z5.530.6425.0	318	LP.STIFTLEISTE	Z5.540.6825.0	319	MAGAZIN M. 25 BU.	Z2.123.7300.0	■ 800
LP.STIFTLEISTE	Z5.530.6525.0	318		Z5.540.8225.0	319	MAGAZIN M. 25 ST.	Z5.543.7000.0	■ 800
LP.STIFTLEISTE	Z5.530.6625.0	318	LP.STIFTLEISTE	Z5.540.8325.0	319	MAGAZIN M. 25 ST.	Z5.543.7100.0	■ 800
LP.STIFTLEISTE	Z5.530.6725.0	318	LP.STIFTLEISTE	Z5.540.8425.0	319	MAGAZIN M. 25 ST.	Z5.543.7200.0	■ 800
LP.STIFTLEISTE	Z5.530.6825.0	318	LP.STIFTLEISTE	Z5.540.8525.0	319	MAGAZIN M. 25 ST.	Z5.543.7300.0	800
LP.STIFTLEISTE	Z5.530.8225.0	318	LP.STIFTLEISTE	Z5.540.8625.0	319	MAGAZIN M. 25 ST.	Z5.543.7400.0	800
LP.STIFTLEISTE	Z5.530.8325.0	318 318	LP.STIFTI FISTF	Z5.540.8725.0 Z5.540.8825.0	319 319	MMLEISTE6E / 5	21.310.0553.0 05.502.0910.0	258 741
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LP.STIFTLEISTE	Z5.530.8025.0 Z5.530.8725.0 Z5.530.8825.0	318	LPB-14L-250V1A	87.040.3053.0	540	MOD.10POL.	05.502.0710.0	741
LP.STIFTLEISTE	Z5.531.0225.0	318	LPST 1 / 2	25.000.0256.0	330	MOD.20POL.	05.502.0410.0	741
LP.STIFTLEISTE		316	LPST 1 / 2 OB	25.010.0256.0	330	MODULLOESEWZ.	05.502.1010.0	741
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LP.STIFTLEISTE	Z5.531.0525.0	316	LPST 1 / 4	25.000.0456.0	330	OBERTEIL	75.013.0051.0	758
LP.STIFTLEISTE	Z5.531.0625.0	316	LPST 1 / 4 OB	25.010.0456.0	330	OBERTEIL	75.013.0051.2	758
LP.STIFTLEISTE	Z5.531.0725.0	316	LPST 1 / 5	25.000.0556.0	330	ODC 3-32V/3-200V	Z8.000.0169.9	482
LP.STIFTLEISTE	Z5.531.0825.0	316	LPST 1 / 5 OB	25.010.0556.0	330	ODC 3-32V/3-60V	Z8.000.0169.8	482
LP.STIFTLEISTE	Z5.531.0925.0	316	LPST 1 / 6	25.000.0656.0	330	PG 13,5 - M 20 x 1,5	05.507.7621.0	778
LP.STIFTLEISTE	Z5.531.1025.0	316	LPST 1 / 6 OB	25.010.0656.0	330	PG 16 - M 20 x 1,5	05.507.7721.0	778
LP.STIFTLEISTE	Z5.531.1125.0	316	LPST 1 / 7	25.000.0756.0	330	PG 21 - M 25 x 1,5	05.507.7821.0	778
LP.STIFTLEISTE	Z5.531.1225.0	316	LPST 1 / 7 OB	25.010.0756.0	330	PRESSWERKZEUG	95.101.0900.0	798
LP.STIFTLEISTE	Z5.531.1325.0	316	LPST 1 / 8	25.000.0856.0	330	PRESSWERKZEUG	95.101.1000.0 95.101.1100.0	798
LP.STIFTLEISTE	Z5.531.1425.0	316	LPST 1 / 8 OB	25.010.0856.0	330	PRESSWERKZEUG	95.101.1200.0	799
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LP.STIFTLEISTE	Z5.531.3425.0	316	LPST 1 / 11	25.000.1156.0	330	PRUEFSTECKER	Z5.533.7221.0	357
LP.STIFTLEISTE	Z5.531.3525.0	316	LPST 1 / 11 0B	25.010.1156.0	330	PRUEFSTECKER	Z5.543.0153.0	358
LP.STIFTLEISTE	Z5.531.3625.0	316	LPST 1 / 12	25.000.1256.0	330	PRUEFSTECKER	Z5.543.0253.0	358
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LP.STIFTLEISTE	Z5.531.3825.0	316	LPST 1 / 13	25.000.1356.0	330	PST1-WK4	Z1.299.9253.0	177
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QUERSCHALTLASCHE	Z7.269.3523.0	190	RICOS S 8 I/O	83.031.1100.1	428	ST 70.3 /24 RV	Z5.571.3356.0	675
QUERSCHALTLASCHE	Z7.269.3623.0	161	RICOS S 8I 8I/O	83.031.1300.1	428	ST 70.3 /24 RVZ	Z5.571.2356.0	675
QUERSCHALTLASCHE	Z7.269.4023.0	161	RICOS SOCKET FEMALE-S	83.031.0010.0	410	ST 70.7 / 6 REV	Z5.571.5156.0	677
QUERSCHALTLASCHE	Z7.269.4123.0	161	RICOS SOCKET FINAL-DP	83.030.0011.0	410	ST 70.7 / 6 REVZ	Z5.571.4156.0	677
QUERSCHALTLASCHE	Z7.269.4223.0	161	RICOS SOCKET KNOT-DP	83.030.0010.0	410	ST 70.7 / 6 RV	Z5.571.8656.0	677
R12- 12V-W-LED	87.220.7553.0	454	RICOS SOCKET MALE-S	83.031.0011.0	410	ST 70.7 / 6 RVZ	Z5.571.6656.0	677
RAB - FS16 W A-S5	87.221.6653.0	566	RSV 2 BLAU	93.004.0056.6	207	ST 70.7 /10 REV	Z5.571.5256.0	677
RAB - FS16 W B-S5	87.221.6753.0	566	RSV 2 GRAU	93.004.0056.0	207	ST 70.7 /10 REVZ	Z5.571.4256.0	677
RAB - SS 4	87.220.1853.0	454	RV A/2 L BLAU	26.500.4453.0	208	ST 70.7 /10 RV	Z5.571.8756.0	677
RAB - SS 4/2	87.220.4753.3		RV2 A/2 TP1 BLAU	26.500.4553.0	209	ST 70.7 /10 RVZ	Z5.571.6756.0	677
RAB - SS 8/2 RAB - SS 4 M	87.220.4853.3 87.221.5553.0	455 455 454	RV2 A/3 L RV2 A/3 TP1	26.500.4153.0 26.500.4253.0	208 209	ST 70.7 /16 REV ST 70.7 /16 REVZ	Z5.571.5056.0 Z5.571.4056.0	677 677
RAB-FSS 16	87.220.2253.3	454	RV2 A/4 BLAU	26.500.4353.0	208	ST 70.7 /16 RV	Z5.571.8556.0	677
RAB-FSS 8	87.220.1953.3	454	RV2 A/6	26.500.4053.0	208	ST 70.7 /16 RVZ	Z5.571.6556.0	677
RASTHEBEL	05.594.3653.0	331	RV2 S/2 L BLAU	26.500.2453.0	206	ST 70.7 /24 REV	Z5.571.5356.0	677
REDUZIERPL. 24/10	07.416.6453.0	784	RV2 S/2 TP1 BLAU	26.500.2553.0	207	ST 70.7 /24 REVZ	Z5.571.4356.0	677
REDUZIERPL. 24/16	07.416.6553.0	784	RV2 S/3 L	26.500.2153.0	206	ST 70.7 /24 RV	Z5.571.8856.0	677
REDUZIERPL. 24/6	07.416.6353.0	784	RV2 S/3 TP1	26.500.2253.0	207	ST 70.7 /24 RVZ	Z5.571.6856.0	677
REVOS MOD.RAHM.BU	78.000.0653.0	742	RV2 S/4 BLAU	26.500.2353.0	206	ST 72,3 /10 REV	Z5.571.1756.0	679
REVOS MOD.RAHM.BU	78.000.1053.0	739	RV2 S/6	26.500.2053.0	206	ST 72.1 / 6 REV WL	Z5.573.0656.0	679
REVOS MOD.RAHM.BU	78.000.1653.0	742	SBS-4SI-230V6,3A	87.010.7453.0	540	ST 72.1 / 6 REV WR	Z5.573.1656.0	679
REVOS MOD.RAHM.BU	78.000.2453.0	742	SBS-4SI-24V6,3A	87.010.7653.0	540	ST 72.1 / 6 REV U WL	Z5.573.4656.0	679
REVOS MOD.RAHM.ST	78.010.0653.0	742	SCHIENENHALTER	Z5.519.0310.0	213	ST 72.1 / 6 REV UWR	Z5.573.5656.0	679
REVOS MOD.RAHM.ST	78.010.1053.0	739	SCHIENENHALTER	Z5.519.0410.0	213	ST 72.1 / 6 RV WL	Z5.573.2656.0	679
REVOS MOD.RAHM.ST REVOS MOD.RAHM.ST	78.010.1653.0 78.010.2453.0	742 742 742	SCHIENENTRAEGER SCHNELLMONT.GRIFF	Z1.980.0040.0 05.582.8153.0	211 175	ST 72.1 / 6 RV WR ST 72.1 / 6 RV U WL	Z5.573.3656.0 Z5.573.6656.0	679
REVOS MODULBU. 3P REVOS MODULBU. 4P	78.004.0353.0 78.003.0453.0	/39	SCHNELLMONT.GRIFF SCHNELLMONT.GRIFF SCHNELLMONT.GRIFF	05.593.4153.0	190	ST 72.1 / 6 RV U WR ST 72.1 / 10 REV WL	Z5.573.7656.0	679
REVOS MODULBU. 5P	78.003.0553.0	740	SCHNELLMONT.GRIFF SCHNELLMONT.GRIFF SCHNELLMONT.GRIFF	05.593.5853.0 05.593.5953.0	191	ST 72.1 /10 REV WR	Z5.573.0756.0 Z5.573.1756.0	679
REVOS MODULBU.10P	78.002.1053.0	740	SCHNELLMONT.GRIFF	05.594.5853.0	175	ST 72.1 /10 REV U WL	Z5.573.4756.0	679
REVOS MODULBU.20P	78.001.2053.0	740		05.594.5953.0	175	ST 72.1 /10 REV U WR	Z5.573.5756.0	679
REVOS MODULST. 3P	78.014.0353.0	739	SCHNELLMONT.GRIFF	05.594.6053.0	175	ST 72.1 /10 RV WL	Z5.573.2756.0	679
REVOS MODULST. 4P	78.013.0453.0	740	SCHRAUBBUCHSE	05.508.8621.0	197	ST 72.1 /10 RV WR	Z5.573.3756.0	679
REVOS MODULST. 5P	78.013.0553.0	740	SCHRAUBBUCHSE	05.508.8721.0	197	ST 72.1 /10 RV U WL	Z5.573.6756.0	679
REVOS MODULST.10P	78.012.1053.0	740	SCHRAUBBUCHSE	05.508.9721.0	197	ST 72.1 /10 RV U WR	Z5.573.7756.0	679
REVOS MODULST.20P	78.011.2053.0	740	SCHRAUBENSATZ	Z6.012.0812.0	305	ST 72.1 /16 REV WL	Z5.573.0556.0	679
RFK 1 / 150 FK PA/V0	59.197.0255.0	157	SCHUTZDECKEL	Z7.409.7056.0	780	ST 72.1 /16 REV WR	Z5.573.1556.0	679
RFK 1 / 150 FMK PA/V0	59.197.1255.0	157	SCHUTZDECKEL	Z7.409.7156.0	780	ST 72.1 /16 REV U WL	Z5.573.4556.0	679
RFK 1 / 150 FMK S35/V0	56.397.1255.0	157	SCHUTZDECKEL	Z7.409.7256.0	780	ST 72.1 /16 REV U WR	Z5.573.5556.0	679
RFK 1 / 150 K PA/V0	59.197.0155.0	157	SCHUTZDECKEL	Z7.409.7356.0	780	ST 72.1 /16 RV WL	Z5.573.2556.0	679
RFK 1 / 185 F PA/V0	59.198.0055.0	158	SCHUTZDECKEL	Z7.409.8856.0	780	ST 72.1 /16 RV WR	Z5.573.3556.0	679
RFK 1 / 185 F S35/V0	56.398.0055.0	158	SCHUTZDECKEL	Z7.409.8956.0	780	ST 72.1 /16 RV U WL	Z5.573.6556.0	679
RFK 1 / 185 FM PA/V0	59.198.1055.0	158	SELBSTKLEBESCHILD	05.584.9489.0	183	ST 72.1 /16 RV U WR	Z5.573.7556.0	679
RFK 1 / 185 FM S35/V0	56.398.1055.0	158	SIST- GL /V0	Z1.299.4255.0	38	ST 72.1 /24 REV WL	Z5.573.0856.0	679
RFK 1 / 240 F PA/V0	59.199.0055.0	159	SIST /V0	Z1.299.4055.0	38	ST 72.1 /24 REV WR	Z5.573.1856.0	679
RFK 1 / 240 F S35/V0	56.399.0055.0	159	SIST-LED /V0	Z1.299.4155.0	38	ST 72.1 /24 REV U WL	Z5.573.4856.0	679
RFK 1 / 240 FK PA/V0	59.199.0255.0	159	SPERRBOLZ.M.FEDRG	05.513.4212.0	786	ST 72.1 /24 REV U WR	Z5.573.5856.0	679
RFK 1 / 240 FK S35/V0	56.399.0255.0	159	SPERRBOLZ.M.FEDRG	05.592.0621.0	786	ST 72.1 /24 RV WL	Z5.573.2856.0	679
RFK 1 / 240 FM PA/V0	59.199.1055.0	159	SPERRSTUECK	05.593.7756.0	331	ST 72.1 /24 RV WR	Z5.573.3856.0	679
RFK 1 / 240 FM S35/V0	56.399.1055.0	159	SPERRSTUECK	Z5.592.1252.0	788	ST 72.1 /24 RV U WL	Z5.573.6856.0	679
RFK 1 / 240 FMK PA/V0	59.199.1255.0	159	SR - A 4	Z1.000.9153.0	485	ST 72.1 /24 RV U WR	Z5.573.7856.0	679
RFK 1 / 240 FMK S35/V0	56.399.1255.0	159	SR - I 5	Z1.000.4753.0	485	ST 72.3 / 6 REV	Z5.571.1656.0	679
RFK 1 / 240 K PA/V0	59.199.0155.0	159	SR 4-20 MA/UE 9,5-40VDC	57.802.3053.0	452	ST 72.3 / 6 REVZ	Z5.571.0656.0	679
RFK 1 / 240 K S35/V0 RFK 1 / 95 F PA/V0	56.399.0155.0 59.195.0055.0	159 159 156	SSM-7E230V SSM-7E230V-250V5A	87.010.2053.0 87.030.1053.0	541	ST 72.3 / 6 RV ST 72.3 / 6 RV	Z5.571.0656.0 Z5.571.2656.0 Z5.571.2656.0	679 679
RFK 1 / 95 F S35/V0	56.395.0055.0 59.195.0255.0	156	SSW-V.24//RS422	57.007.0153.0 57.007.0253.0	553	ST 72.3 /10 REVZ	Z5.571.0756.0	679
RFK 1 / 95 FK PA/V0 RFK 1 / 95 FK S35/V0	56.395.0255.0	156 156	SSW-V.24//RS485 SSW-V.24//TTY	57.007.0053.0	554 553	ST 72.3 /10 RV ST 72.3 /10 RVZ ST 72.3 /16 REV	Z5.571.3756.0 Z5.571.2756.0	679
RFK 1 / 95 FM PA/V0	59.195.1055.0	156	ST 2 / 2.3 ROT	Z5.553.2921.0	353	ST 72.3 /16 REVZ	Z5.571.1556.0	679
RFK 1 / 95 FM S35/V0	56.395.1055.0	156	ST 2 / 2.3 ROT	Z5.553.2921.0	19		Z5.571.0556.0	679
RFK 1 / 95 FMK PA/V0	59.195.1255.0	156	ST 2 / 4 SCHWARZ	Z5.553.3021.0	176	ST 72.3 /16 RV	Z5.571.3556.0	679
RFK 1 / 95 FMK S35/V0	56.395.1255.0	156	ST 70,3 /24 REV	Z5.571.1356.0	675	ST 72.3 /16 RVZ	Z5.571.2556.0	679
RFK 1 / 95 K PA/V0	59.195.0155.0	156	ST 70.1 / 6 REV WL	Z5.573.0156.0	675	ST 72.3 /24 REV	Z5.571.1856.0	679
RFK 1 / 95 K S35/V0	56.395.0155.0	156	ST 70.1 / 6 REV WR	Z5.573.1156.0	675	ST 72.3 /24 REVZ	Z5.571.0856.0	679
RICOS PV-A	83.039.0000.0	416	ST 70.1 / 6 REV U WL	Z5.573.4156.0	675	ST 72.3 /24 RV	Z5.571.3856.0	■ 679
RICOS 16 I	83.035.3000.1	416	ST 70.1 / 6 REV U WR	Z5.573.5156.0	675	ST 72.3 /24 RVZ	Z5.571.2856.0	■ 679
RICOS 16 0	83.035.3200.1	419	ST 70.1 / 6 RV WL	Z5.573.2156.0	675	ST 72.7 / 6 REV	Z5.571.5656.0	■ 681
RICOS 4AI / +-10V	83.035.4000.1	424	ST 70.1 / 6 RV WR	Z5.573.3156.0	675	ST 72.7 / 6 REVZ	Z5.571.4656.0	■ 681
RICOS 4AI / 10V	83.035.4001.1	424	ST 70.1 / 6 RV U WL	Z5.573.6156.0	675	ST 72.7 / 6 RV	Z5.571.9656.0	■ 681
RICOS 4AI / 20MA	83.035.4010.1	426	ST 70.1 / 6 RV U WR	Z5.573.7156.0	675	ST 72.7 / 6 RVZ	Z5.571.7656.0	■ 681
RICOS 4AI / PT100	83.035.4040.1	423	ST 70.1 /10 REV WL	Z5.573.0256.0	675	ST 72.7 /10 REV	Z5.571.5756.0	■ 681
RICOS 4AI / TC	83.035.4050.1	423	ST 70.1 /10 REV WR	Z5.573.1256.0	675	ST 72.7 /10 REVZ	Z5.571.4756.0	■ 681
RICOS 4AI4AO / +-10V	83.035.4100.1	425	ST 70.1 /10 REV U WL	Z5.573.4256.0	675	ST 72.7 /10 RV	Z5.571.9756.0	■ 681
RICOS 4AI4AO / 10V	83.035.4101.1	425	ST 70.1 /10 REV U WR	Z5.573.5256.0	675	ST 72.7 /10 RVZ	Z5.571.7756.0	■ 681
RICOS 4AI4AO / 20MA	83.035.4110.1	427	ST 70.1 /10 RV WL	Z5.573.2256.0	675	ST 72.7 /16 REV	Z5.571.5556.0	■ 681
RICOS 4AI4AO / 4-20MA	83.035.4111.1	427	ST 70.1 /10 RV WR	Z5.573.3256.0	675	ST 72.7 /16 REVZ	Z5.571.4556.0	■ 681
RICOS 4I AC 115V	83.035.5000.1	417	ST 70.1 /10 RV U WL	Z5.573.6256.0	675	ST 72.7 /16 RV	Z5.571.9556.0	681
RICOS 4I AC 230V	83.035.5005.1	417	ST 70.1 /10 RV U WR	Z5.573.7256.0	675	ST 72.7 /16 RVZ	Z5.571.7556.0	681
RICOS 40 RELAY	83.035.5200.1	418	ST 70.1 /16 REV WL	Z5.573.0056.0	675	ST 72.7 /24 REV	Z5.571.5856.0	681
RICOS 8 I/O	83.035.3100.1	416	ST 70.1 /16 REV WR	Z5.573.1056.0	675	ST 72.7 /24 REVZ	Z5.571.4856.0	681
RICOS 8I 8I/O	83.035.3300.1	419	ST 70.1 /16 REV U WL	Z5.573.4056.0	675	ST 72.7 /24 RV	Z5.571.9856.0	681
RICOS BC-CAN-DN	83.032.0000.1	411	ST 70.1 /16 REV U WR	Z5.573.5056.0	675	ST 72.7 /24 RVZ	Z5.571.7856.0	681
RICOS BC-CANOPEN	83.033.0000.1	411	ST 70.1 /16 RV WL	Z5.573.2056.0	675	ST 73.1 /40 REV WL	Z5.573.8056.0	683
RICOS BC-DP	83.030.0000.1	410	ST 70.1 /16 RV WR	Z5.573.3056.0	675	ST 73.1 /40 REV WR	Z5.573.8356.0	683
RICOS BC-S	83.031.0000.1	410	ST 70.1 /16 RV U WL	Z5.573.6056.0	675	ST 73.1 /40 REV U WL	Z5.573.9156.0	683
RICOS CAN-DN 16 I	83.032.1000.1		ST 70.1 /16 RV U WR	Z5.573.7056.0	675	ST 73.1 /40 REV U WR	Z5.573.9356.0	683
RICOS CAN-DN 16 0 RICOS CAN-DN 8 I/O	83.032.1200.1 83.032.1100.1	429	ST 70.1 /24 REV WL ST 70.1 /24 REV WR	Z5.573.0356.0 Z5.573.1356.0	675 675	ST 73.1 /40 RV WI	Z5.573.8656.0 Z5.573.8956.0	683 683
RICOS CAN-DN 81 81/0 RICOS CANOPEN 16 I	83.032.1100.1 83.032.1300.1 83.033.1000.1	429 429 429	ST 70.1 /24 REV U WL ST 70.1 /24 REV U WR	Z5.573.4356.0 Z5.573.5356.0	675 675	ST 73.1 /40 RV WR ST 73.1 /40 RV U WL ST 73.1 /40 RV U WR	Z5.573.9556.0 Z5.573.9756.0	683 683
RICOS CANOPEN 16 0	83.033.1200.1	429	ST 70.1 /24 RV WL	Z5.573.2356.0	675	ST 73.1 /64 REV WL	Z5.573.8156.0	683
RICOS CANOPEN 8 I/O	83.033.1100.1	429	ST 70.1 /24 RV WR	Z5.573.3356.0	675	ST 73.1 /64 REV WR	Z5.573.8456.0	683
RICOS CANOPEN 8I 8I/O	83.033.1300.1	429	ST 70.1 /24 RV U WL	Z5.573.6356.0	675	ST 73.1 /64 REV U WL	Z5.573.9256.0	683
RICOS COUNTER	83.035.5400.1	422	ST 70.1 /24 RV U WR	Z5.573.7356.0	675	ST 73.1 /64 REV U WR	Z5.573.9456.0	683
RICOS DISK BASE	05.591.3255.0	410	ST 70.3 / 6 REV	Z5.571.1156.0	675	ST 73.1 /64 RV WL	Z5.573.8756.0	683
RICOS DP 16 I	83.030.1000.1	428	ST 70.3 / 6 REVZ	Z5.571.0156.0	675	ST 73.1 /64 RV WR	Z5.573.9056.0	683
RICOS DP 16 O	83.030.1200.1	428	ST 70.3 / 6 RV	Z5.571.3156.0	675	ST 73.1 /64 RV U WL	Z5.573.9656.0	683
RICOS DP 8 I/O	83.030.1100.1	428	ST 70.3 / 6 RVZ	Z5.571.2156.0	675	ST 73.1 /64 RV U WR	Z5.573.9856.0	683
RICOS DP 8I 8I/O	83.030.1300.1	428	ST 70.3 /10 REV	Z5.571.1256.0	675	ST 73.7 /40 REV	Z5.571.7056.0	683
RICOS EC-CAN-DN	83.032.0001.1	415	ST 70.3 /10 REVZ	Z5.571.0256.0	675	ST 73.7 /40 REVZ	Z5.571.6056.0	683
RICOS EC-CANOPEN	83.033.0001.1	415	ST 70.3 /10 RV	Z5.571.3256.0	675	ST 73.7 /40 RV	Z5.571.9056.0	683
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Туре	Part no.	section / page	Туре	Part no.	section / page	Туре	Part no.	section / page
ST 73.7 /40 RVZ	Z5.571.8056.0	683	STVB. KOMPLETT	99.708.0000.6	672	VB 1 WK 4 2	07.255.4227.0	168
ST 73.7 /64 REV	Z5.571.7156.0	683	STVB. KOMPLETT	99.709.0000.6	672	VB 1 WK 4 3	07.255.4327.0	168
ST 73.7 /64 REVZ	Z5.571.6156.0	683	STVB. KOMPLETT	99.718.0000.6	672	VB 1 WK 4 4	07.255.4427.0	168
ST 73.7 /64 RV	Z5.571.9156.0	683	STVB. KOMPLETT	99.719.0000.6	672	VB 1 WK 4 5	07.255.4527.0	168
ST 73.7 /64 RVZ	Z5.571.8156.0	683	STVB. KOMPLETT	99.720.0000.6	672	VB 1 WK 4 6	07.255.4627.0	168
ST.EIG.ANL.	72.310.0653.9	767	STVB. KOMPLETT	99.721.0000.6	672	VB 1 WK 4 7	07.255.4727.0	168
ST.EIG.ANL.	72.310.1053.9	767	STVB. KOMPLETT	99.725.0000.6	672	VB 1 WK 4 8	07.255.4827.0	168
ST.EIG.ANL.	72.310.1653.9	767	STVB. KOMPLETT	99.726.0000.6	672	VB 1 WK 4 9	07.255.4927.0	168
ST.EIG.ANL.	72.310.2453.9	767	STVB. KOMPLETT	99.727.0000.6	672	VB 1 WK 4 M-70	07.255.4027.0	168
ST.EIG.ANL.	72.310.4853.9	767	TE / RFK 1 / 95 PA/V0	07.340.0353.0	156	VB 1 WK 410	07.255.5027.0	168
ST.EINSATZ 3/3/6	72.213.1253.0	705	TE/RFK 1/150-240 PA/V0	07.340.1053.0	157	VB 1 WK 411	07.255.5127.0	168
ST.EINSATZ 4/6	72.215.1053.0	699	TMS-101-250V5A	87.110.6253.0	539	VB 1 WK 412	07.255.5227.0	168
ST.EINSATZ 6/6	72.215.1253.0	703	TRSTUECK F.TS35	Z5.595.2153.0	584	VB 11 / 1 / 12	07.250.1027.0	258
ST.EINSATZ 660V	70.410.0340.0	643	TR.STUECK M. U-F	05.583.0053.0	584	VB 11 / 1 / 2	07.250.0227.0	258
ST.EINSATZ 660V	70.410.0640.0	643	TR.STUECK M. U-F	05.583.0053.0	675	VB 11/1 / 6	07.250.0627.0	258
ST.EINSATZ 660V	70.410.1040.0	643	TR.STUECK M. U-F	05.583.0153.0	586	VB 11/2	07.250.2527.0	218
ST.EINSATZ 660V	70.410.1640.0	643	TR.STUECK M. U-F	05.584.8853.0	590	VB 9786 2	07.253.0227.0	130
ST.EINSATZ 660V	70.410.2040.0	643	TR.STUECK M. U-F	05.584.8953.0	590	VB 9786 3	07.253.0327.0	130
ST.EINSATZ 660V	70.410.2640.0	■ 643	TRAGBOCK	Z1.990.2030.0	215	VB 9786 6	07.253.0627.0	130
ST.EINSATZ 660V	70.410.3240.0	■ 643	TRAGSCHIENE 2M	98.310.0000.0	215	VB 9786 4	07.253.0427.0	168
ST.EINSATZ VERGOL	70.311.0640.0	631	TRENNSTUECK	05.592.1953.0	215	VB 9786 M	07.253.0027.0	259
ST.EINSATZ VERGOL	70.311.1040.0	631	TRENNWAND M.BEZ.	07.340.1153.0	152	VB RFK 1 / 95 / 2 / 32	07.205.1227.0	153
ST.EINSATZ VERGOL	70.311.1640.0	631	TRENNWAND M.BEZ.	07.340.1353.0	152	VB RFK 1 / 95 / 3 / 32	07.205.1327.0	153
ST.EINSATZ VERGOL	70.311.2440.0	631	TS 2,5 GELB	07.311.2053.8	312	VB RFK 1 / 95 / 4 / 32	07.205.1427.0	153
ST25/5 B/V0	93.031.2055.0	218	TS 2,5 GELB TS 4 GELB	07.311.2053.8	101	VB RFK 1 185 2 VB RFK 1 185 3	07.201.4227.0	157
ST25/5 S/V0 ST25/5 SV/V0	93.032.2055.0 93.032.2455.0	218	TS 4 / 15 GELB	07.311.2153.8 07.311.2953.8	78 112	VB RFK 1 185 4	07.201.4327.0 07.201.4427.0	157 157
ST28/10 B/V0	93.001.1055.0	219	TS 6 GELB	07.311.2253.8	103	VB RFK 1 240 2	07.201.8227.0	159
ST28/10 BS/V0	93.003.1055.0	219	TS 10 GELB	07.311.2353.8	78	VB RFK 1 240 3	07.201.8327.0	159
ST28/10 S/V0	93.002.1055.0	219	TS 16 GELB	07.311.2453.8	69	VB RFK 1 240 4	07.201.8427.0	159
ST29/10 BC	93.101.2053.0	320	TS M3 S35	69.335.0253.0	219	VB WK 4 - 2	Z7.281.0227.0	87
ST29/10 S/V0	93.102.0055.0	205	TS M4 / M6-32	69.332.0000.0	219	VB WK 4 - 3	Z7.281.0327.0	87
STECKER D-SUB 9	87.200.2205.3	560	TS M4 S35	69.335.0453.0	219	VB WK 4 - 4	Z7.281.0427.0	87
STECKER D-SUB 15	87.200.2206.3	560	TS M5 S35	69.335.0553.0	219	VB WK 4 - 5	Z7.281.0527.0	87
STECKER D-SUB 25	87.200.2207.3	560	TS M6 S35	69.335.0653.0	219	VB WK 4 - 6	Z7.281.0627.0	87
STECKER D-SUB 37	87.200.2208.3	560	TSI 35 GELB	07.311.8653.8	79	VB WK 4 M-70	Z7.281.0027.0	87
STECKER D-SUB 50	87.200.2209.3	560	TSM 2,5 / 15 GELB	07.311.2853.8	144	VB WK 4/D2	Z7.281.6227.0	164
STECKERBUCHSE	05.508.6521.0	191	TSN AD 16 GELB	07.311.8553.8 07.311.8453.8	104	VB WK 4/D3	Z7.281.6327.0	164
STECKERBUCHSE	05.509.6021.0	176	TSN16 GELB	95.502.0125.0	104	VB WK 4/D4	Z7.281.6427.0	164
STECKEREINSATZ	70.210.0653.0	689	TUSCHESTIFT 0.25		49	VB WK 4/D5	Z7.281.6527.0	164
STECKEREINSATZ	70.310.0640.0	■ 631	TUSCHESTIFT 0.35	95.502.0135.0	49	VB WK 4/D6	Z7.281.6627.0	164
STECKEREINSATZ	70.310.1040.0	■ 631	TW 2,5 - 4 /15 BLAU	07.311.1853.6	145	VB WK 4/DM-70	Z7.281.6027.0	164
STECKEREINSATZ	70.310.1640.0	631	TW 2,5 - 4 /V0	07.311.1155.0	78	VB WK 10 / SI - 2	Z7.287.0227.0	125
STECKEREINSATZ	70.310.2440.0	631	TW 2,5 - 4 BL/V0	07.311.1155.6	78	VB WK 10 / SI - 3	Z7.287.0327.0	125
STECKEREINSATZ	70.310.3253.0	631	TW 4 TK /V0	07.311.8155.0	122	VB WK 10 / SI - 4	Z7.287.0427.0	165
STECKEREINSATZ	70.310.4840.0	631	TW 6 BL/V0	07.311.1255.6	103	VB WK 10 / SI - 5	Z7.287.0527.0	165
STECKEREINSATZ	70.510.0653.0	631	TW 1 - 2,5	07.312.5153.0	232	VB WK 10 / SI - 6	Z7.287.0627.0	125
STECKEREINSATZ	70.510.1053.0	631	TW 1 - 2,5	07.312.5153.6	232	VB WK 10 / SI M-30	Z7.287.0027.0	165
STECKEREINSATZ	70.510.1653.0	631	TW 2,5-3 D/U /V0	07.312.1255.0	118	VB WK 2,5 - 2	Z7.280.0227.0	120
STECKEREINSATZ	70.510.2453.0		TW 2,5-4 K/U /V0	07.312.0555.0	118	VB WK 2,5 - 3	Z7.280.0327.0	120
STECKEREINSATZ	70.510.3253.0	631	TW 2,5-4 KO/V0	07.310.9455.0	120 114	VB WK 2,5 - 4	Z7.280.0427.0	164
STECKEREINSATZ	70.510.4853.0	631	TW 4 E /V0	07.311.5055.0	103	VB WK 2,5 - 5	Z7.280.0527.0	164
STECKEREINSATZ	70.710.0658.0	631	TW 6 /V0	07.311.1255.0		VB WK 2,5 - 6	Z7.280.0627.0	120
STECKEREINSATZ	70.710.1058.0	■ 631	TWC 1 - 2,5 D1.	07.312.5353.0	234	VB WK 2,5 M-80	Z7.280.0027.0	164
STECKEREINSATZ	70.710.1658.0	■ 631	TWC 1 - 2,5 D1. BLAU	07.312.5353.6	234	VB WK 4E - 11	07.255.3127.0	168
STECKEREINSATZ	70.710.2458.0	■ 631	TWC 1 - 2,5 D2./ E	07.312.5553.0	231	VB WK 6 - 2	Z7.282.0227.0	165
STECKEREINSATZ	70.710.3253.0	■ 631	TWC 1 - 2,5 D2./ E BLAU	07.312.5553.6	236	VB WK 6 - 3	Z7.282.0327.0	165
STECKEREINSATZ	70.710.4858.0	631	TWF 1,5 E	07.312.3653.0	33	VB WK 6 - 4	Z7.282.0427.0	165
STECKEREINSATZ	72.210.0653.0	693	TWF 2,5 - 4	07.312.2253.0	19	VB WK 6 - 5	Z7.282.0527.0	165
STECKEREINSATZ	72.215.0653.0	707	TWF 2,5 - 4 BLAU	07.312.2253.6	20	VB WK 6 - 6	Z7.282.0627.0	165
STECKEREINSATZ	72.310.0653.0	655	TWF 2,5/D 1/2	07.312.2453.0	26	VB WK 6 M-40	Z7.282.0027.0	165
STECKEREINSATZ	72.310.1053.0	655	TWF 2,5/D 1/2 BLAU	07.312.2453.6	26	VB WK/S/IW/U- 2	Z7.281.3227.0	140
STECKEREINSATZ	72.310.1653.0	655	TWF 2,5/D 2/2	07.312.2653.0	26	VB WK/S/IW/U- 3	Z7.281.3327.0	140
STECKEREINSATZ	72.310.2453.0	655	TWF 2,5/D 2/2 BLAU	07.312.2653.6	26	VB WK/S/IW/U- 4	Z7.281.3427.0	164
STECKEREINSATZ	72.310.3253.0		TWF 4 E	07.312.5853.0	30	VB WK/S/IW/U- 5	Z7.281.3527.0	164
STECKEREINSATZ	72.310.4853.0	655	TWF 4/D1/2	07.312.4953.0	27 27	VB WK/S/IW/U- 6	Z7.281.3627.0	140
STECKEREINSATZ	72.710.0658.0	655	TWF 4/D1/2 BLAU	07.312.4953.6	72	VB WK/S/IW/U-20	Z7.281.3027.0	164
STECKEREINSATZ	72.710.1058.0	655	TWI 4/V0	07.311.6955.0		VB WK2,5 KO - 2	07.257.0227.0	120
STECKEREINSATZ	72.710.1658.0	■ 655	TWM 2,5 - 4 /15	07.311.1853.0	145	VB WK2,5 KO - 3	07.257.0327.0	120
STECKEREINSATZ	72.710.2458.0	■ 655	TWN 10 /V0	07.311.7655.0	103	VB WK2,5 KO - 20	07.257.2027.0	120
STECKEREINSATZ	72.710.3258.0	■ 655	TWN 10 BL/V0	07.311.7655.6	103	VB WK4 E - 7	07.255.2727.0	168
STECKEREINSATZ	72.710.4858.0	■ 655	TWN 16 /V0	07.311.7755.0	104	VB WK4 E - 8	07.255.2827.0	168
STECKEREINSATZ	73.310.0353.0	713	TWN 16 BL/V0	07.311.7755.6	104	VB WK4 E - 9	07.255.2927.0	168
STECKEREINSATZ	73.310.0453.0	713	TWN 35 /V0	07.311.7855.0	105	VB WK4 E - 10	07.255.3027.0	168
STECKEREINSATZ	73.710.0753.0	713	TWN 35 BL /V0	07.311.7855.6	105	VB WK4 E - 12	07.255.3227.0	168
STECKEREINSATZ	73.710.0853.0	713	TWN 70 /V0	07.311.7955.0	105	VB WK4 E - 2	07.255.2227.0	168
STECKEREINSATZ	73.710.1553.0	719	TWN 70 BL /V0	07.311.7955.6	105	VB WK4 E - 3	07.255.2327.0	168
STECKEREINSATZ	73.710.2553.0	719	TWN2,5E	07.312.1855.0	116	VB WK4 E - 4	07.255.2427.0	168
STECKEREINSATZ	73.710.4058.0	719	UEBERGABE UNIVERSAL-S5	87.221.6353.0	563	VB WK4 E - 5	07.255.2527.0	168
STECKEREINSATZ	73.710.6458.0	719	UEBERGABE UNIVERSAL-S5	87.222.6353.0	565	VB WK4 E - 6	07.255.2627.0	168
STECKERKONTAKT STECKERKONTAKT	05.544.3129.8 05.544.3229.8	739	UET +- 10 V UET-P +- 10 V	57.802.1053.0	506	VB WK4 E M VB WKI 10 - 2	07.255.2027.0	168 87
STECKERKONTAKT	05.544.3329.8	740	UET-P +- 20 MA	57.802.1153.0 57.802.1353.0	507	VB WKI 10 - 3	Z7.288.0227.0 Z7.288.0327.0	87
STECKERKONTAKT	05.544.3429.8	740	UET-P +- 199MV	57.802.1453.0	507	VB WKI 10 - 4	Z7.288.0427.0	87
STECKERKONTAKT	05.544.3529.8	740	UET-P/LCD +-10 V	57.802.2153.0	507	VB WKI 10 - 5	Z7.288.0527.0	87
STECKERKONTAKT	05.544.3629.8	740	UET-P/LCD +-20MA	57.802.2353.0	507	VB WKI 10 - 6	Z7.288.0627.0	87
STECKERKONTAKT	05.544.3729.8	740	UET/LCD +- 10 V	57.802.2053.0	506	VB WKI 10 M-40	Z7.288.0027.0	87
STECKERKONTAKT	05.544.3829.8	740	UET/LCD +- 20 MA	57.802.2253.0	506	VB WKI 16 - 2	Z7.289.0227.0	87
STECKERKONTAKT	05.544.3929.8	740	UNTERLEGPLATTE	07.470.1380.0	258	VB WKI 16 - 3	Z7.289.0327.0	69
STECKERKONTAKT	05.544.4029.8	740	UNTERLEGPLATTE	07.471.1380.0	259	VB WKI 16 - 4	Z7.289.0427.0	87
STECKERKONTAKT	05.544.4129.8	740	UNTERLEGPLATTE	07.472.1380.0	259	VB WKI 16 - 5	Z7.289.0527.0	87
STECKERKONTAKT	05.544.4229.8	740	UNTERLEGPLATTE	07.473.1380.0	259	VB WKI 16 - 6	Z7.289.0627.0	87
STECKERKONTAKT	05.544.4329.8	740	UNTERTEIL	75.013.5051.0	758	VB WKI 16 M-20	Z7.289.0027.0	87
STECKERKONTAKT STECKERKONTAKT	05.544.4429.8	740	VB 16 E / M VB 16 E / 2 POLIG	07.256.8027.0 07.256.8227.0	259 259	VB WKM 2,5 / 15 - 2 VB WKM 2,5 / 15 - 3	Z7.215.4227.0 Z7.215.4327.0	164
STECKERKONTAKT	05.544.4529.8 05.544.4629.7	740 740	VB 0,5 WK 4 2 VB 0,5 WK 4 3	07.255.0227.0	168	VB WKM 2,5 / 15 - 4 VB WKM 2,5 / 15 - 5	Z7.215.4427.0	164 164
STECKERKONTAKT STECKERKONTAKT	05.544.4729.7 05.544.5621.0	740 761	VB 0,5 WK 4 4	07.255.0327.0 07.255.0427.0	168 168	VB WKM 2,5 / 15 - 6	Z7.215.4527.0 Z7.215.4627.0	164 164
STECKERLEISTE	Z5.533.8221.0	357	VB 0,5 WK 4 5	07.255.0527.0	168	VB WKM 2,5 / 15 M-60	Z7.215.4027.0	164
STECKERTEIL	75.012.5053.0	758	VB 0,5 WK 4 6	07.255.0627.0	168	VB WKN70 - 2	Z7.286.3227.0	165
STECKERTEIL	99.701.6905.5	760	VB 0,5 WK 4 7	07.255.0727.0	168	VB WKN70 - 3	Z7.286.3327.0	165
STVB. KOMPLETT	99.700.0000.6	672	VB 0,5 WK 4 8	07.255.0827.0	168	VB WKN70 - 4	Z7.286.3427.0	165
STVB. KOMPLETT STVB. KOMPLETT	99.701.0000.6 99.702.0000.6	672 672	VB 0,5 WK 4 9 VB 0,5 WK 4 M-70	07.255.0927.0 07.255.0927.0 07.255.0027.0	168 168	VB WKN70 - 5 VB WKN70 - 6	Z7.286.3527.0 Z7.286.3627.0	165 165
STVB. KOMPLETT STVB. KOMPLETT	99.703.0000.6 99.706.0000.6	672 672	VB 0,5 WK 410 VB 0,5 WK 411	07.255.1027.0 07.255.1027.0 07.255.1127.0	168 168	VBK6.2 BLAU VBK6.2 ROT	Z8.000.0202.4 Z8.000.0202.3	442 442
STVB. KOMPLETT	99.707.0000.6	672	VB 0,5 WK 412	07.255.1127.0	168	VBRM3.3	Z8.000.0202.3 Z8.000.0200.8	442
								05

Туре	Part no.	section / page	Туре	Part no.	section / page	Туре	Part no.	section / page
VBS WK4 E - 2	07.256.4227.0	168	WK / 3-6S / U/V0	57.504.6655.0	140	WKC 1 /35 BLAU	56.301.0053.6	231
VBS WK4 E - 3	07.256.4327.0	168	WK / 4-8S / IW / U/V0	57.504.6355.0	141	WKC 1 /D2/2/SL/35	56.301.9153.0	237
VBS WK4 E - 4	07.256.4427.0	168	WK / 4-8S / U/V0	57.504.6255.0	141	WKC 1 D1/2/35	56.301.5053.0	231
VBS WK4 E - 5	07.256.4527.0	168	WK / 5-10S / U/V0	57.504.3655.0	139	WKC 1 D1/2/35 BLAU	56.301.5053.6	234
VBS WK4 E - 6	07.256.4627.0	168	WK 2,5 / U /V0	57.503.0055.0	101	WKC 1 D1/2/SL/35	56.301.9353.0	235
VBS WK4 E - 7	07.256.4727.0	168	WK 2,5 / U BL / V0	57.503.0055.6	102	WKC 1 D2/2/35	56.301.5153.0	231
VBS WK4 E - 8	07.256.4827.0	168	WK 4 / 3-6S KO/U/V0	57.504.7355.0	141	WKC 1 D2/2/35 BLAU	56.301.5153.6	236
VBS WK4 E - 9	07.256.4927.0	168	WK 4 / D 1/2 U/V0 BLAU	57.504.5055.6	112	WKC 1 E/35	56.301.7053.0	231
VBS WK4 E - 10	07.256.5027.0	168	WK 4 / THSI5 U/V0	57.904.5355.0	124	WKC 1 SL/35	56.301.9053.0	231
VBS WK4 E - 11	07.256.5127.0	168	WK 4 / U /V0	57.504.0055.0	69	WKC 1 TKG/35	56.301.4053.0	231
VBS WK4 E - 12	07.256.5227.0	168	WK 4 / U BL / V0	57.504.0055.6	69	WKC 1 TKM/35	56.301.2053.0	231
VBWKN 10 - 2	Z7.283.6227.0	165	WK 4 / U F1/V0	57.504.1055.0	142	WKC 1 TKM/35 BLAU	56.301.2053.6	
VBWKN 10 - 3	Z7.283.6327.0	165	WK 4 / U F2/V0	57.504.1155.0	142	WKC 2,5 /35	56.303.0053.0	231
VBWKN 10 - 4	Z7.283.6427.0	165	WK 4 3-6 S 1K / U / V0	57.504.3755.0	138	WKC 2,5 /35 BLAU	56.303.0053.6	
VBWKN 10 - 5 VBWKN 10 - 6	Z7.283.6527.0 Z7.283.6627.0	165 165	WK 43-6 S1K/IW/U/V0	57.504.2755.0 57.504.2855.0	139 138	WKC 2,5 D1/2/35	56.303.5053.0	231
VBWKN 10 - M-40	Z7.283.6027.0	165	WK 4 5S2,8 1K / U/V0 WK 4 5S2,8 1K/IW/U/V0	57.504.2855.0	139	WKC 2,5 D1/2/35 BLAU WKC 2,5 D1/2/SL/35	56.303.5053.6 56.303.9353.0	235
VBWKN150 - 2	Z7.287.1227.0	165	WK 4 E / U G-ULR/V0	57.404.8055.9	115	WKC 2,5 D2/2/35	56.303.5153.0	231
VBWKN150 - 3	Z7.287.1327.0	165	WK 4 E / U G-URL/V0	57.404.8355.5	115	WKC 2,5 D2/2/35 BLAU	56.303.5153.6	236
VERBSCHIENE	05.561.4125.0	310	WK 4 E / U G2/1/V0	57.404.8855.9	115	WKC 2,5 D2/2/SL/35	56.303.9153.0	231
VERBSCHIENE	05.561.4125.0	134	WK 4 E / U G2/V0	57.404.7955.5	115	WKC 2,5 E/35	56.303.7053.0	
VERBINDUNGSKAMM	07.250.3027.0	128	WK 4 E / U GO/V0	57.404.8255.5	115	WKC 2,5 E/35 G-URL	56.303.8353.5	239
VERBINDUNGSKAMM #	07.250.1627.0	256	WK 4 E / U GU/V0	57.404.8155.9	115	WKC 2,5 E/35 G2	56.303.7953.5	239
VERBINDUNGSKAMM #	07.250.3127.0	128	WK 4 E / U LD 42V/V0	57.404.8455.5	115	WKC 2,5 E/35 GO	56.303.8253.5	239
VM WKF K018	69.700.1853.0	45	WK 4 SL / U /V0	57.504.9055.0	69	WKC 2,5 E/35 ORANGE	56.303.7553.9	239
VM WKF K09	69.700.0953.0	45	WK 4 TKG-TRST / U/V0	57.504.4555.0	123	WKC 2,5 E/35 ROT	56.303.7553.5	239
W.NR.07060796 6E SONDER	99.272.3521.9	258	WK 4 TKG-TRST P3/ U/V0	57.504.4855.0	123	WKC 2,5 E/35/1D/2G ROT	56.303.7153.5	239
WAK16/1	30.494.1010.0	216	WK 4 TKS D / U V0	57.504.4455.0	123	WKC 2,5 SL/35	56.303.9053.0	231
WAK16/1 BL	30.494.1010.6	216	WK 6 / U /V0	57.506.0055.0	101	WKC 2,5 TKG/35	56.303.4053.0	231
WAK16/1 GN	30.494.1010.7	216	WK 6 / U BL / V0	57.506.0055.6	101	WKC 2,5 TKM/35	56.303.2053.0	231
WAK16/2 BL/V0	30.494.3021.6	24	WK 6 SL / U /V0	57.506.9055.0	101	WKC 2,5 TKM/35 BLAU	56.303.2053.6	240
WAK25/3	30.494.1110.0	216	WK 10/SI U 5 X 20 /V0	57.910.5055.0	101	WKC2,5E/35/1D/2G ORANGE	56.303.7153.9	239
WAK25/3 BL	30.494.1110.6	193	WK 10/SI U 5 X 25 /V0	57.910.5155.0	125	WKF 1,5 E / 35	56.702.7053.0	33
WAK25/3 GN	30.494.1110.7	216	WK 10/SI U 5 X 30 /V0	57.910.5255.0	125	WKF 1,5E/8113/35	07.312.4753.0	37
WAK35/2 BL/V0	30.494.4021.6	107	WK 10/SI U 5X20M.GLB/V0	57.910.5855.0	125	WKF 1.5E/8113/35	07.312.4753.0	309
WAK35/2 BLANK WAK35/3	30.494.4121.0 30.494.2510.0	24	WK 10/SI U 5X20M.NGL/V0 WK 10/SI U 6,3 X 32 /V0	57.910.5455.0 57.910.5355.0	125 125 125	WKF 1,5E/8113/35 WKF 1,5E/8113/35	56.702.2053.0 56.702.2053.0	37
WAK35/3 BL	30.494.2510.6	193	WK 10/SI U D/V0	57.910.4955.0	125	WKF 1.5 KOA 2L/SL	37.702.7653.0	45
WAK35/3 GN	30.494.2510.7	216	WK 10/SIU6,3X32M.GLB/V0	57.910.6155.0	125	WKF 1.5 KOA 2L/SL-PGE	37.702.8653.0	45
WAK4/1	30.494.0010.0	216	WK 10/SIU6,3X32M.NGL/V0	57.910.5755.0	125	WKF 1.5 KOE	37.702.7753.0	45
WAK4/1 BL	30.494.0010.6	216	WK 2,5 U /8113 S-VS	05.576.5853.0	311	WKF 1.5 KOE-PGN	37.702.8753.0	45
WAK4/1 GN	30.494.0010.7	216	WK 2,5 U /8113 S-VS	05.576.5853.0	137	WKF 1.5 KOI 3L	37.702.7453.0	44
WAK4/3	30.494.0110.0	216	WK 2,5-3 D SL /V0	56.503.8355.0	119	WKF 1.5 KOI 3L-PGE	37.702.8453.0	44
WAK4/3 BL	30.494.0110.6	216	WK 2,5-3 D SL-NGN /V0	56.503.8455.0	119	WKF 1.5 KOI 3L/SL	37.702.7553.0	44
WAK4/3 GN	30.494.0110.7	216	WK 2,5-3 D SL-PGN /V0	56.503.8555.0	119	WKF 1.5 KOI 3L/SL-PGE	37.702.8553.0	44
WE 1/U	Z5.523.5753.0	101	WK 2,5-3 D/U /V0	57.503.8855.0	118	WKF 10/35	56.710.0053.0	21
WE 1/U	Z5.523.5753.0	584	WK 2,5-3 D/U-NGN /V0	57.503.8955.0	118	WKF 10/35 BLAU	56.710.0053.6	21
WE 2/U	Z5.523.5653.0	105	WK 2,5-3 D/U-PGN /V0	57.503.9055.0	118	WKF 10SL/35	56.710.9053.0	23
WE SH 1/35	Z5.515.3310.0	212	WK 2,5-4 KI SL /V0	56.503.7355.0	119	WKF 16/35	56.716.0053.0	21
WE SH 2/35	Z5.515.3410.0	212	WK 2,5-4 KI SL-NGN /V0	56.503.7455.0	119	WKF 16/35 BLAU	56.716.0053.6	21
WEB1001 LEERG B3	87.030.0053.0	585	WK 2,5-4 KI SL-PGN /V0	56.503.7555.0	119	WKF 16SL/35	56.716.9053.0	23
WEB1001 LEERG.B1	86.010.0053.0	584	WK 2,5-4 KI SL-PRT /V0	56.503.7655.0	119	WKF 2,5 / 35	56.703.0053.0	19
WEB1001 LEERG.B1	87.010.0053.0	584	WK 2,5-4 KI/U /V0	57.503.7855.0	118	WKF 2,5 / 35 BLAU	56.703.0053.6	19
WEB1001 LEERG.B2	86.020.0053.0	584	WK 2,5-4 KI/U-NGN /V0	57.503.7955.0	118	WKF 2,5 / D / D / 35	56.703.5253.0	27
WEB1001 LEERG.B2	87.020.0053.0	584	WK 2,5-4 KOI /U /VO	57.503.7055.0	120	WKF 2,5 / D 1/2 /SL/35	56.703.9353.0	28
WEB1001 LEERG.B3	86.030.0053.0	585	WK 2,5-4 KOI /U-NGN /VO	57.503.7155.0	120	WKF 2,5 / D 2/2 / SL/35	56.703.9153.0	19
WEB1001 LEERG.B4 WEB1001 LEERG.B4	86.040.0053.0 87.040.0053.0	585	WK 2,5-4 KOI /U-PGN /V0 WK 2,5-4 KOI /U-PGN /V0 WK 2,5U/8113S/H/V0	57.503.7255.0	121	WKF 2,5 / D2/SL35/8113	56.703.9253.0	36
WEB1001 LEERG.B6	87.060.0053.0	585 586	WK 2,5U/8113S/H/V0	57.503.2055.0 57.503.2055.0	311	WKF 2,5 / D2/SL35/8113 WKF 2,5 SL / 35	56.703.9253.0 56.703.9053.0	19
WEB1001 LEERG.B7	87.070.0053.0	586	WK 4 E/U LD +P 0 24/V0	57.404.7255.5	115	WKF 2,5/D1/2/35	56.703.5053.0	19
WEB1001 LEERG.B8	87.080.0053.0	587	WK 4 E/U LD -P 0 24/V0	57.404.7455.9	115	WKF 2,5/D1/2/35 BLAU	56.703.5053.6	19
WEB1001 LEERG.B9	87.090.0053.0	587	WK 4 E/U LDG +P 0 24/V0	57.404.8755.5	115	WKF 2,5/D2 35/8113	56.703.2053.0	308
WEF 1 BS/35	69.920.1053.0	47	WK 4 E/U LED+P0 24LD/V0	57.404.6255.9	115	WKF 2,5/D2 35/8113	56.703.2053.0	36
WEF 1/35	Z5.523.9353.0	20	WK 4 SI-D/U 5 X20/V0	57.504.1755.0	126	WKF 2,5/D2/ 35/8113 BL	56.703.2053.6	308
WEF 1/35	Z5.523.9353.0	308	WK 4 SI-D/U 5 X25/V0	57.504.1655.0	126	WKF 2,5/D2/ 35/8113 BL	56.703.2053.6	36
WEG LEERG. F. 4A	57.801.0053.0	592	WK 4 TKG/U /V0	57.504.4055.0	101	WKF 2,5/D2/2/35	56.703.5153.0	19
WEG LEERG. F. 4A	57.801.5053.0	592	WK 4 TKM P3/U /V0	57.504.2355.0	123	WKF 2,5/D2/2/35 BLAU	56.703.5153.6	19
WEG LEERG. F. 6A	57.801.5153.0	593	WK 4 TKM/U /V0	57.504.2055.0	101	WKF 4 E/35	56.704.7053.0	30
WEG LEERG. F. 8A	57.801.5253.0	593	WK 4 TKM/U BL /V0	57.504.2055.6	123	WKF 4 / 35	56.704.0053.0	19
WIEBOX CN 19 DK	07.416.5353.0	594	WK 4/D E U/V0	57.504.5255.0	113	WKF 4 / 35 BLAU	56.704.0053.6	19
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WIEBOX CN 19 FKG	07.416.4856.0	594	WK 4/D2/2U/V0	57.504.5155.0	112	WKF 4 TKG / 35	56.704.4053.0	38
WIEBOX CN 19 GK	Z1.296.3553.0	594	WK 4/THSI 5 GL 250U /V0	57.904.5755.0	124	WKF 4 TKM / 35	56.704.2053.0	39
WIEBOX CN 19 GKL	Z1.296.3453.0	594	WK 4/THSI 5 GL 500U /V0	57.904.5855.0	124	WKF 4/D1/2/35	56.704.5053.0	27
WIEBOX CN 22 DK	07.416.5653.0	594	WK 4/THSI 5 LED 12U /V0	57.904.5455.0	124	WKF 4/D1/2/35 BLAU	56.704.5053.6	27
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WIEBOX CN 22 GKL	Z1.296.3853.0	594	WK 4/THSI6,3 LED 24U/V0	57.904.6555.0	124	WKI 10 / U/V0	57.510.1155.0	78
WIEBOX CN 26 DK	07.416.5853.0	595	WK 4/THSI6,3 LED 60U/V0	57.904.6655.0	124	WKI 10 ETK/U/V0	57.510.8255.0	80
WIEBOX CN 26 DU	07.416.5953.0	595	WK 4/THSI6,3 U /V0	57.904.6355.0	124	WKI 10 PEN/35/V0	56.510.9455.0	84
WIEBOX CN 26 EP	07.416.4753.0	595	WK 4E SL/U /V0	57.504.9255.0	115	WKI 10 SL / 35/V0	56.510.9255.0	82
WIEBOX CN 26 FK	07.416.5053.0	595	WK 4E/U /V0	57.404.7055.0	114	WKI 16 / U BLAU/V0	57.516.1155.6	69
WIEBOX CN 26 FKG	07.416.5056.0	595	WK 4E/UVB SW/V0	57.404.6955.1	114	WKI 16 / U/V0	57.516.1155.0	69
WIEBOX CN 26 GK	Z1.296.4353.0	595	WK2,5-4 KI/U-PGN /V0	57.503.8055.0	118	WKI 16 ETK/U/V0	57.516.8255.0	69
WIEBOX CN 26 GKL	Z1.296.4253.0	595	WK2,5U / 8113S/V /V0	57.503.2655.0	136	WKI 16 PEN/35/V0	56.516.9455.0	84
WIEBOX CN BL1	05.561.9553.0	594	WK2,5U/8113S/V/LED25/V0	57.503.2755.0	310	WKI 16 SL / 35/V0	56.516.9255.0	69
WIEBOX CN BL2	05.561.9653.0	594	WK2,5U/8113S/V/LED25/V0	57.503.2755.0	136	WKI 35 / U BLAU/V0	57.535.1155.6	79
WIEBOX CN BZ	04.244.1853.0	502	WK2,5U/8113S/V/LED50/V0	57.503.2855.0	137	WKI 35 / U/V0	57.535.1155.0	79
WIEBOX CN DK	07.416.5153.0	594	WK2,5U/8113S/V/LED50/V0	57.503.2855.0		WKI 35 PEN/35/V0	56.535.9455.0	85
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2.124.1429.0	0,5 -1,5 QMM VERGOLDET	683 207	04.242.0850.0 04.242.0850.0	9705 A 9705 A	90 321	04.343.6053.8 04.343.6153.8	ADF 2,5/4 GELB ADF 4/4 GELB	308 19
2.124.4000.0 2.124.4029.0	FEDERKONTAKT	207	04.242.0850.0	9705 A 9705 A	588	04.343.6253.8	ADF 6/4 GELB	21
2.124.4100.0	FEDERKONTAKT	207	04.242.0850.0	9705 A	790	04.343.6453.8	ADF10/4 GELB	21
2.124.4129.0	DUCHCENICONTAICE	207	04.242.1050.0	9003 C / 4 9003 C / 4	394 584	04.343.6653.8	ADF16/4 GELB	21
2.125.1121.0 2.125.1600.0	BUCHSENKONTAKT FEDERKONTAKT BAND	761 291	04.242.1050.0 04.242.1553.0	9003 C / 4 9705 AL	584 90	04.343.6853.8 04.343.6853.8	ABDECKUNG ABDECKUNG	36 308
2.125.1629.0	FEDERKONTAKT BAND	291	04.242.1553.0	9705 AL	394	04.343.8053.0	AD VM-1,5/8 SCHWARZ	45
2.125.1700.0	FEDERKONTAKT BAND	291	04.242.1553.0	9705 AL	410	04.343.8353.8	ABDECKUNG	33
2.125.1729.0	FEDERKONTAKT	291	04.242.1553.0	9705 AL	790	04.343.9056.0	ADDECNOTORICENT	310
2.125.3129.8 2.125.3229.8	BUCHSENKONTAKT BUCHSENKONTAKT	739 740	04.242.2853.0 04.242.3053.0	9705 A / 4 W 9705 A / 6,7/6-90GRAD	790 790	04.343.9056.8 04.343.9056.8	ABDECKSTREIFEN ABDECKSTREIFEN	134 312
2.125.3329.8	BUCHSENKONTAKT	740	04.242.3253.0	2.22.17 0,770 0001111D	204	04.343.9156.0		310
.125.3429.8	BUCHSENKONTAKT	740	04.242.3353.0	9705 A / 6.7/9-90GRAD 3	790	04.343.9156.8	ABDECKG.M.WARNZCH	134
.125.3529.8	BUCHSENKONTAKT	740	04.242.3453.0	9705 A / 6,7/6-90GRAD 5	790 790	04.343.9156.8	ABDECKG.M.WARNZCH .ADC 1 GELB	312 232
.125.3629.8 .125.3729.8	BUCHSENKONTAKT BUCHSENKONTAKT	740 740	04.242.3553.0 04.242.3653.0	9705 A / 6,7/6-90GRAD 8 9705 A / 6,7/6-90GRAD12	790 790	04.344.0153.8 04.344.0353.8	ADC 2,5 GELB	232
.125.3829.8	BUCHSENKONTAKT	740	04.242.3853.0	BEZ.SCHILDTRAEGER	781	04.832.0051.0	BZ 12 B	218
2.125.3929.8	BUCHSENKONTAKT	740	04.242.4253.0	BEZ.SCHILDTRAEGER	349	04.841.0651.0	9003 C B	584
2.125.4029.8	BUCHSENKONTAKT	740	04.242.4453.0	BEZ.SCHILDTRAEGER BEZ.SCHILDTRAEGER	781 357	04.841.1150.0 04.841.1150.0	9704 A / 1 B 9704 A / 1 B	181 395
2.125.4129.8 2.125.4229.8	BUCHSENKONTAKT BUCHSENKONTAKT	740 740	04.242.4653.0 04.242.5053.0	9705 A / 5 / 10	357 91	04.841.1150.0 04.841.1150.0	9704 A / 1 B 9704 A / 1 B	395 598
2.125.4229.8	BUCHSENKONTAKT	740	04.242.5053.0	9705 A / 5 / 10	349	04.841.1150.0	9704 A / 1 B	791
2.125.4429.8	BUCHSENKONTAKT	740	04.242.5053.0	9705 A / 5 / 10	596	04.841.1250.0	9704 A / 2 B	181
2.125.4529.8	BUCHSENKONTAKT	740	04.242.5053.0	9705 A / 5 / 10	790	04.841.1250.0	9704 A / 2 B	395
2.125.4629.7 2.125.4729.7	BUCHSENKONTAKT BUCHSENKONTAKT	740 740	04.242.5153.0 04.242.5153.0	9705 A L / 5/10 9705 A L / 5/10	91 394	04.841.1250.0 04.841.1250.0	9704 A / 2 B 9704 A / 2 B	598 791
2.125.4729.7	FKK18 / 1	217	04.242.5153.0	9705 A L / 5/10	596	04.841.1350.0	9704 A / 3 B	181
2.220.0321.0	FKK18 / 2	217	04.242.5153.0	9705 A L / 5/10	790	04.841.1350.0	9704 A / 3 B	395
		217	04.242.5853.0	BEZ.SCHILDTRAEGER	349	04.841.1350.0	9704 A / 3 B	598
2.220.0421.0 1.007.1080.0	FKK18 / 3 BZ KL 28 / 1 - 99	214	04.242.6053.0	9705 A / 6 / 10	91	04.841.1350.0	9704 A / 3 B	791

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04.841.1450.0	9704 A / 4 B	598	04.841.4350.0	9704 A /VG B	791	04.841.7550.0	9704 A /- B	791
04.841.1450.0	9704 A / 4 B 9704 A / 5 B	791	04.841.4450.0	9704 A /WG B	395	04.841.7650.0	9704 A // B 9704 A // B	181
04.841.1550.0 04.841.1550.0	9704 A / 5 B	181 395	04.841.4450.0 04.841.4450.0	9704 A /WG B 9704 A /WG B	598 791	04.841.7650.0 04.841.7650.0	9704 A // B	395 599
04.841.1550.0	9704 A / 5 B	598	04.841.4550.0	9704 A /XG B	395	04.841.7650.0	9704 A // B	791
04.841.1550.0 04.841.1650.0	9704 A / 5 B	791 181	04.841.4550.0	9704 A /XG B	598 791	04.841.7750.0	9704 A /. B	181 395
04.841.1650.0	9704 A / 6 B 9704 A / 6 B	395	04.841.4550.0 04.841.4650.0	9704 A /XG B 9704 A /YG B	791 395	04.841.7750.0 04.841.7750.0	9704 A /. B 9704 A /. B	599
04.841.1650.0	9704 A / 6 B	598	04.841.4650.0	9704 A /YG B	598	04.841.7750.0	9704 A /. B	791
04.841.1650.0	9704 A / 6 B	791 181	04.841.4650.0	9704 A /YG B	791 395	04.841.9050.0 04.841.9050.0	111BIS 000	181 395
04.841.1750.0 04.841.1750.0	9704 A / 7 B 9704 A / 7 B	395	04.841.4750.0 04.841.4750.0	9704 A /ZG B 9704 A /ZG B	598	04.841.9050.0	111BIS 000 111BIS 000	791
04.841.1750.0	9704 A / 7 B	598	04.841.4750.0	9704 A /ZG B	791	04.841.9150.0	A BIS Z GB	181
04.841.1750.0	9704 A / 7 B 9704 A / 8 B	791	04.841.4850.0	9704 A /AK B	395	04.841.9150.0	A BIS Z GB	395
04.841.1850.0 04.841.1850.0	9704 A / 8 B	181 395	04.841.4850.0 04.841.4850.0	9704 A /AK B 9704 A /AK B	599 791	04.841.9150.0 04.841.9250.0	A BIS Z GB A BIS Z KB	791 181
04.841.1850.0	9704 A / 8 B	598	04.841.4950.0	9704 A /BK B	395	04.841.9250.0	A BIS Z KB	395
04.841.1850.0 04.841.1950.0	9704 A / 8 B 9704 A / 9 B	791 181	04.841.4950.0 04.841.4950.0	9704 A /BK B 9704 A /BK B	599 791	04.841.9250.0 04.842.0153.0	A BIS Z KB	791 101
04.841.1950.0	9704 A / 9 B	395	04.841.5050.0	9704 A /CK B	395	04.842.0651.0		592
04.841.1950.0	9704 A / 9 B	598	04.841.5050.0	9704 A /CK B	599	04.842.0850.0	9705 A B	90
04.841.1950.0 04.841.2050.0	9704 A / 9 B	791 181	04.841.5050.0 04.841.5150.0	9704 A /CK B 9704 A /DK B	791 395	04.842.0850.0 04.842.0850.0	9705 A B 9705 A B	321 588
04.841.2050.0	9704 A / 0 B 9704 A / 0 B	395	04.841.5150.0	9704 A /DK B	599	04.842.0850.0	9705 A B	790
04.841.2050.0	9704 A / 0 B	598	04.841.5150.0	9704 A /DK B	791	04.842.1553.0	9705 AL B	90
04.841.2050.0 04.841.2150.0	9704 A / 0 B	791	04.841.5250.0 04.841.5250.0	9704 A /EK B	395 599	04.842.1553.0 04.842.1553.0	9705 AL B 9705 AL B	394
04.841.2150.0	9704 A / 1-0 B 9704 A / 1-0 B	181 349	04.841.5250.0	9704 A /EK B 9704 A /EK B	599 791	04.842.1553.0	9705 AL B	596 790
04.841.2150.0	9704 A / 1-0 B	598	04.841.5350.0	9704 A /FK B	395	04.842.4953.0	9705A/5/ 9 B 1- 9	91
04.841.2150.0 04.841.2250.0	9704 A / 1-0 B 9704 A /AG B	791 395	04.841.5350.0 04.841.5350.0	9704 A /FK B 9704 A /FK B	599 791	04.842.4953.0 04.842.4953.0	9705A/5/ 9 B 1- 9 9705A/5/ 9 B 1- 9	394 596
04.841.2250.0	9704 A /AG B	395 598	04.841.5450.0	9704 A /FK B	791 395	04.842.5053.0	9705 A / 5 / 10 B	596 55
04.841.2250.0	9704 A /AG B	791	04.841.5450.0	9704 A /GK B	599	04.842.5053.0	9705 A / 5 / 10 B	349
04.841.2350.0 04.841.2350.0	9704 A /BG B	395 598	04.841.5450.0 04.841.5550.0	9704 A /GK B	791 395	04.842.5053.0 04.842.5053.0	9705 A / 5 / 10 B	596 790
04.841.2350.0	9704 A /BG B 9704 A /BG B	598 791	04.841.5550.0	9704 A /HK B 9704 A /HK B	599	04.842.5153.0	9705 A / 5 / 10 B 9705 A L / 5/ 10 B	790
04.841.2450.0	9704 A /CG B	395	04.841.5550.0	9704 A /HK B	791	04.842.5553.0	9705 A / 5 / 10 / 5 B	55
04.841.2450.0 04.841.2450.0	9704 A /CG B 9704 A /CG B	598 791	04.841.5650.0 04.841.5650.0	9704 A /IK B 9704 A /IK B	395 599	04.842.5553.0 04.842.5553.0	9705 A / 5 / 10 / 5 B 9705 A / 5 / 10 / 5 B	394 596
04.841.2550.0	9704 A /DG B	791 395	04.841.5650.0	9704 A /IK B	791	04.842.5953.0	9705A/6/ 9 B 1- 9	91
04.841.2550.0	9704 A /DG B	598	04.841.5750.0	9704 A /JK B	395	04.842.6053.0	9705 A / 6 / 10 B	69
04.841.2550.0 04.841.2650.0	9704 A /DG B 9704 A /EG B	791 395	04.841.5750.0 04.841.5850.0	9704 A /JK B 9704 A /KK B	791 395	04.842.6553.0 04.842.6753.0	9705 A / 6 / 10 / 5 B 9705A/6,7/ 12 B	69 790
04.841.2650.0	9704 A /EG B	395 598	04.841.5850.0	9704 A /KK B	791	04.842.7553.0	9705 A / 7,5 / 10 B	790 351
04.841.2650.0	9704 A /EG B	791	04.841.5950.0	9704 A /LK B	395	04.842.7953.0	9705A/8/ 9 B 1- 9	201
04.841.2750.0 04.841.2750.0	9704 A /FG B 9704 A /FG B	395 598	04.841.5950.0 04.841.6050.0	9704 A /LK B 9704 A /MK B	791 395	04.842.8053.0 04.842.8553.0	9705 A / 8 / 10 B 9705 A / 8 / 10 / 5 B	189 91
04.841.2750.0	9704 A /FG B	791	04.841.6050.0	9704 A /MK B	599	04.845.0153.0	9705A/5/10 B 1- 10	91
04.841.2850.0	9704 A /GG B	395	04.841.6050.0	9704 A /MK B	791	04.845.0253.0	9705A/5/10 B 11-20	91
04.841.2850.0 04.841.2850.0	9704 A /GG B 9704 A /GG B	598 791	04.841.6150.0 04.841.6150.0	9704 A /NK B 9704 A /NK B	395 599	04.845.0353.0 04.845.0453.0	9705A/5/10 B 21-30 9705A/5/10 B 31-40	91 91
04.841.2950.0	9704 A /HG B	395	04.841.6150.0	9704 A /NK B	791	04.845.0553.0	9705A/5/10 B 41- 50	91
04.841.2950.0	9704 A /HG B	598	04.841.6250.0	9704 A /OK B	395	04.845.0653.0	9705A/5/10 B 51-60	91
04.841.2950.0 04.841.3050.0	9704 A /HG B 9704 A /IG B	791 395	04.841.6250.0 04.841.6250.0	9704 A /OK B 9704 A /OK B	599 791	04.845.0753.0 04.845.0853.0	9705A/5/10 B 61- 70 9705A/5/10 B 71- 80	91 91
04.841.3050.0	9704 A /IG B	598	04.841.6350.0	9704 A /PK B	395	04.845.0953.0	9705A/5/10 B 81- 90	91
04.841.3050.0	9704 A /IG B	791	04.841.6350.0	9704 A /PK B	599	04.845.1053.0	9705A/5/10 B 91-100	91
04.841.3150.0 04.841.3150.0	9704 A /JG B 9704 A /JG B	395 598	04.841.6350.0 04.841.6450.0	9704 A /PK B 9704 A /QK B	791 395	04.846.0153.0 04.846.0253.0	9705A/6/10 B 1- 10 9705A/6/10 B 11- 20	91 91
04.841.3150.0	9704 A /JG B	791	04.841.6450.0	9704 A /QK B	599	04.846.0353.0	9705A/6/10 B 21-30	91
04.841.3250.0	9704 A /KG B	395	04.841.6450.0	9704 A /QK B	791	04.846.0453.0	9705A/6/10 B 31-40	91
04.841.3250.0 04.841.3250.0	9704 A /KG B 9704 A /KG B	598 791	04.841.6550.0 04.841.6550.0	9704 A /RK B 9704 A /RK B	395 599	04.846.0553.0 04.846.0653.0	9705A/6/10 B 41- 50 9705A/6/10 B 51- 60	91 91
04.841.3350.0	9704 A /LG B	395	04.841.6550.0	9704 A /RK B	791	04.846.0753.0	9705A/6/10 B 61- 70	91
04.841.3350.0 04.841.3350.0	9704 A /LG B 9704 A /LG B	598 791	04.841.6650.0 04.841.6650.0	9704 A /SK B 9704 A /SK B	395 599	04.846.0853.0 04.846.0953.0	9705A/6/10 B 71-80 9705A/6/10 B 81-90	91 91
04.841.3450.0	9704 A /MG B	395	04.841.6650.0	9704 A /SK B	791	04.846.1053.0	9705A/6/10 B 91-100	91
04.841.3450.0	9704 A /MG B	598	04.841.6750.0	9704 A /TK B	395	04.848.0153.0	9705A/8/10 B 1- 10	201
04.841.3450.0 04.841.3550.0	9704 A /MG B 9704 A /NG B	■ 791 ■ 395	04.841.6750.0 04.841.6750.0	9704 A /TK B 9704 A /TK B	599 791	04.848.0253.0 04.848.0353.0	9705A/8/10 B 11- 20 9705A/8/10 B 21- 30	201 201
04.841.3550.0	9704 A /NG B	598	04.841.6850.0	9704 A / UK B	395	04.848.0453.0	9705A/8/10 B 31- 40	201
04.841.3550.0	9704 A /NG B	791	04.841.6850.0	9704 A /UK B	599	04.848.0553.0	9705A/8/10 B 41- 50	201
04.841.3650.0 04.841.3650.0	9704 A /OG B 9704 A /OG B	395 598	04.841.6850.0 04.841.6950.0	9704 A /UK B 9704 A /VK B	791 395	04.848.0653.0 04.848.0753.0	9705A/8/10 B 51-60 9705A/8/10 B 61-70	201 201
04.841.3650.0	9704 A /OG B	791	04.841.6950.0	9704 A /VK B	599	04.848.0853.0	9705A/8/10 B 71- 80	201
04.841.3750.0	9704 A /PG B	395	04.841.6950.0	9704 A /VK B	791	04.848.0953.0	9705A/8/10 B 81- 90	201
04.841.3750.0 04.841.3750.0	9704 A /PG B 9704 A /PG B	598 791	04.841.7050.0 04.841.7050.0	9704 A /WK B 9704 A /WK B	395 599	04.848.1053.0 04.855.0053.0	9705A/8/10 B 91-100 9705A/5/10B SLZ	201 91
04.841.3850.0	9704 A /QG B	395	04.841.7050.0	9704 A /WK B	791	04.855.0153.0	9705A/5/10B ERDZ	91
04.841.3850.0	9704 A /QG B	598	04.841.7150.0	9704 A /XK B	395	04.855.0253.0	9705A/5/10 B +	91
04.841.3850.0 04.841.3950.0	9704 A /QG B 9704 A /RG B	791 395	04.841.7150.0 04.841.7150.0	9704 A /XK B 9704 A /XK B	599 791	04.855.0253.5 04.855.0353.0	9705A/5/10 B + ROT 9705A/5/10 B -	120 91
04.841.3950.0	9704 A /RG B	598	04.841.7250.0	9704 A /YK B	395	04.855.0353.6	9705A/5/10 B - BLAU	120
04.841.3950.0	9704 A /RG B	791	04.841.7250.0	9704 A /YK B	599	04.855.0453.0	9705A/5/10B L1	91
04.841.4050.0 04.841.4050.0	9704 A /SG B 9704 A /SG B	395 598	04.841.7250.0 04.841.7350.0	9704 A /YK B 9704 A /ZK B	791 395	04.855.0553.0 04.855.0653.0	9705A/5/10B L2 9705A/5/10B L3	91 91
04.841.4050.0	9704 A /SG B	791	04.841.7350.0	9704 A /ZK B	599	04.855.0753.0	9705A/5/10B PE	91
04.841.4150.0	9704 A /TG B	395	04.841.7350.0	9704 A /ZK B	791	04.855.0853.0	9705A/5/10B L1L2L3NPE.	
04.841.4150.0 04.841.4150.0	9704 A /TG B 9704 A /TG B	598 791	04.841.7450.0 04.841.7450.0	9704 A /+ B 9704 A /+ B	181 395	04.855.0953.0 04.855.1053.0	9705A/5/10B F1 9705A/5/10B F2	91 91
04.841.4250.0	9704 A /UG B	395	04.841.7450.0	9704 A /+ B	599	04.855.3153.0	9705A/5/10B SL	91
04.841.4250.0	9704 A /UG B	598 701	04.841.7450.0	9704 A /+ B	791	04.855.3253.0	9705A/5/10B N	91
04.841.4250.0 04.841.4350.0	9704 A /UG B 9704 A /VG B	791 395	04.841.7550.0 04.841.7550.0	9704 A /- B 9704 A /- B	181 395	04.856.0053.0 04.856.0153.0	9705A/6/10 B SLZ 9705A/6/10 B ERDZ	91 91
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04.856.0553.0	9705A/6/10 B L2	91	05.543.7001.0	WINKLE LINKS	631	05.584.8953.0	TR.STUECK M. U-F	590
04.856.0653.0	9705A/6/10 B L3	91	05.543.7021.0	FUER 0,5 MM2	631	05.584.9489.0	SELBSTKLEBESCHILD	183
04.856.0753.0	9705A/6/10B PE	91	05.543.7101.0		631	05.590.0052.0	315 E	182
04.856.0853.0	9705A/6/10B L1L2L3NPE	91	05.543.7121.0	FUER 0,75-1 MM2	631	05.590.3121.0	1036 R	263
04.856.0953.0	9705A/6/10B F1	91	05.543.7201.0	FUER 1,5 MM2 VERGOLD	631	05.591.1255.0		410
04.856.1053.0	9705A/6/10B F2	91	05.543.7221.0	FUER 1,5 MM2	631	05.591.3089.0	ETIKETTEN A4	416
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04.856.3253.0 04.858.0053.0	9705A/6/10B N 9705A/8/10B SLZ	91 201	05.543.7321.0 05.543.7401.0	FUER 2,5 MM2	■ 631 ■ 631	05.591.3389.0 05.592.0621.0	RICOS MANUAL D SPERRBOLZ.M.FEDRG	410 786
04.858.0153.0	9705A/8/10B ERDZ	201	05.543.7421.0	FUER 4 MM2	631	05.592.0021.0	SFENNBULZ.IVI.FEDING	256
04.858.0253.0	9705A/8/10B +	201	05.543.9021.0	FUER 0,5 MM2 KURZ	655	05.592.1953.0	TRENNSTUECK	215
04.858.0353.0	9705A/8/10B -	201	05.543.9121.0	FUER 0,75-1 MM2	655	05.592.7553.0	FUER NYAF 1,5 MM2	138
04.858.0453.0	9705A/8/10B L1	201	05.543.9221.0	FUER 1,5 MM2 KURZ	655	05.592.7653.0	FUER NYAF 2,5 MM2	138
04.858.0553.0	9705A/8/10B L2	201	05.543.9321.0	FUER 2,5 MM2 KURZ	655	05.593.4153.0	SCHNELLMONT.GRIFF	190
04.858.0653.0	9705A/8/10B L3	201	05.543.9421.0	FUER 4 MM2	655	05.593.5853.0	SCHNELLMONT.GRIFF	190
04.858.0753.0	9705A/8/10B PE	201	05.544.0900.0	0,2 -0,56 QMM	683	05.593.5953.0	SCHNELLMONT.GRIFF	191
04.858.0853.0 04.858.0953.0	9705A/8/10B L1L2L3NPE 9705A/8/10B F1	201 201	05.544.0929.0 05.544.1000.0	0,2 -0,56 QMM	■ 683 ■ 683	05.593.7756.0 05.593.8853.0	SPERRSTUECK BEF.HALTER	331 331
04.858.1053.0	9705A/8/10B F2	201	05.544.1029.0	0,5 -1,5 QMM 0,5 -1,5 QMM	683 683	05.594.3653.0	RASTHEBEL	331
04.858.3153.0	9705A/8/10B SL	201	05.544.1400.0	0,5 -1,5 QNN VERGOLDET	683	05.594.5153.0	CODIERSTUECK-AST	219
04.858.3253.0	9705A/8/10B N	201	05.544.1429.0	0,5 -1,5 QMM VERGOLDET	683	05.594.5853.0	SCHNELLMONT.GRIFF	175
05.084.0212.0		390	05.544.3129.8	STECKERKONTAKT	739	05.594.5953.0	SCHNELLMONT.GRIFF	175
05.091.0200.0		47	05.544.3229.8	STECKERKONTAKT	740	05.594.6053.0	SCHNELLMONT.GRIFF	175
05.502.0000.0	HOCHPOL.	683	05.544.3329.8	STECKERKONTAKT	740	05.595.5900.0	2A	128
05.502.0200.0	AUSDRUECKWERKZEUG	207	05.544.3429.8	STECKERKONTAKT	740	05.595.6000.0	4A	128
05.502.0410.0	MOD.20POL.	741	05.544.3529.8	STECKERKONTAKT	740	05.595.6100.0	6A	128
05.502.0500.0 05.502.0610.0	KLINGE	207 741	05.544.3629.8 05.544.3729.8	STECKERKONTAKT	740 740	05.595.6200.0	10A	128
05.502.0010.0	MOD. 4POL. MOD.10POL.	741 741	05.544.3829.8	STECKERKONTAKT STECKERKONTAKT	740 740	05.595.6300.0 05.595.6400.0	16A 20A	128 128
05.502.0710.0	MOD. 5POL.	741	05.544.3929.8	STECKERKONTAKT	740	05.595.6500.0	25A	128
05.502.0910.0	MOD. 3POL.	741	05.544.4029.8	STECKERKONTAKT	740	05.595.6600.0	35A	128
05.502.1010.0	MODULLOESEWZ.	741	05.544.4129.8	STECKERKONTAKT	740	05.595.6700.0	50A	128
05.502.2000.0	CRIMPBACKEN A	741	05.544.4229.8	STECKERKONTAKT	740	05.595.9200.0	2A	128
05.502.2000.0	CRIMPBACKEN A	798	05.544.4329.8	STECKERKONTAKT	740	05.595.9300.0	4A	128
05.502.2100.0	CRIMPBACKEN B	631	05.544.4429.8	STECKERKONTAKT	740	05.595.9400.0	6A	128
05.502.2100.0	CRIMPBACKEN B	798	05.544.4529.8	STECKERKONTAKT	740	05.595.9500.0	10A	128
05.502.2200.0	CRIMPBACKEN C	741 798	05.544.4629.7	STECKERKONTAKT	740	05.596.6127.0	2,08 GELB	■ 797 ■ 797
05.502.2200.0 05.502.2300.0	CRIMPBACKEN C CRIMPBACKEN D	798 739	05.544.4729.7 05.544.5621.0	STECKERKONTAKT STECKERKONTAKT	740 761	05.599.2027.0 05.599.2853.0	AEI 1,5Z-N BEF.HALTER	331
05.502.2300.0	CRIMPBACKEN D	798	05.549.0500.0	HALTEFEDER	128	05.599.2953.0	BEF.HALTER	331
05.502.2400.0	CRIMPBACKEN E	683	05.549.1200.0	KONTAKTFEDER	177	05.599.8053.0	CODIERSTUECK-AST	205
05.502.2400.0	CRIMPBACKEN E	798	05.555.8521.0	FLACHSTECKER	584	05.599.8053.0	CODIERSTUECK-AST	321
05.502.2500.0		291	05.555.8621.0	FLACHSTECKER	584	06.065.0021.0	AM 5 X 12 D 933SZMS	156
05.502.3100.0	KONT.AUFNAHME 1	739	05.555.8721.0	FLACHSTECKER	584	06.502.4000.0	DIN 5264 A 0,6 x 3,5	20
05.502.3100.0	KONT.AUFNAHME 1	798	05.555.8821.0	FLACHSTECKER	584	06.502.4000.0	DIN 5264 A 0,6 x 3,5	293
05.502.3200.0	KONT.AUFNAHME 2	683	05.555.8921.0	FLACHSTECKER	584 584	06.502.4000.0	DIN 5264 A 0,6 x 3,5	799 21
05.502.3200.0 05.502.3300.0	KONT.AUFNAHME 2 KONT.AUFNAHME 3	798 631	05.555.9121.0 05.561.0053.0	FLACHSTECKER CODIERAST STIFTL.	584 36	06.502.4100.0 06.502.4200.0	DIN 5264 A 0,8 x 4,0 DIN 5264 A 1,0 x 5,5	21
05.502.3300.0	KONT.AUFNAHME 3	798	05.561.0053.0	CODIERAST STIFTL.	284	06.502.4300.0	DIN 5264 A 0,4 X 2,5	281
05.502.3500.0	F. 400/690V-SER.	631	05.561.1389.0	0051218101 01812	412	06.502.5000.0	DIN 5264 B 0,6X3,5 M	30
05.507.4021.0	M 20 x 1,5	779	05.561.4125.0	VERBSCHIENE	134	06.600.2027.0	DIN 46228-E 0,5 -8	796
05.507.4053.0	M 20 x 1,5	779	05.561.4125.0	VERBSCHIENE	310	06.600.2127.0	DIN 46228-E 0,75- 8	1 796
05.507.4121.0	M 25 x 1,5	779	05.561.6553.0	LEL 2,5/1 WEISS	19	06.600.2227.0	DIN 46228-E 1 - 8	= 796
05.507.4153.0	M 25 x 1,5	779	05.561.6553.0	LEL 2,5/1 WEISS	308	06.600.2327.0	DIN 46228-E 1,5 - 8	796
05.507.4221.0 05.507.4253.0	M 32 x 1,5 M 32 x 1,5	779 779	05.561.6653.0 05.561.6653.0	LEL 2,5/2 GRAU LEL 2,5/2 GRAU	20 308	06.600.2427.0 06.600.2527.0	DIN 46228-E 1,5 -18 DIN 46228-E 2,5 - 8	■ 796 ■ 796
05.507.4253.0	M 40 x 1,5	779	05.561.6753.0	LEL 2,5/2 GRAU LEL 2,5/3 SCHWARZ	308 19	06.600.2627.0	DIN 46228-E 2,5 - 18	796
05.507.4353.0	M 40 x 1,5	779	05.561.6753.0	LEL 2,5/3 SCHWARZ	308	06.600.2727.0	DIN 46228-E 4 -10	796
05.507.7621.0	PG 13,5 - M 20 x 1,5	778	05.561.8553.0	LEL 4/1 WEISS	20	06.600.2827.0	DIN 46228-E 4 -18	796
05.507.7721.0	PG 16 - M 20 x 1,5	778	05.561.8653.0	LEL 4/2 GRAU	20	06.600.2927.0	DIN 46228-E 6 -12	796
05.507.7821.0	PG 21 - M 25 x 1,5	778	05.561.8753.0	LEL 4/3 SCHWARZ	20	06.600.3027.0	DIN 46228-E 6 -18	796
05.507.8121.0	M 20 x 1,5 - PG 13,5	779	05.561.9153.0	CODIERAST BU.LST.	37	06.600.3127.0	DIN 46228-E10 -12	= 796
05.507.8221.0	M 20 x 1,5 - PG 16 M 25 x 1,5 - PG 21	779	05.561.9153.0	CODIERAST BU.LST.	286	06.600.3227.0	DIN 46228-E10 -18	796
05.507.8321.0 05.507.8421.0	M 32 x 1,5 - PG 29	■ 779 ■ 779	05.561.9453.0 05.561.9453.5	CODIERSTIFT-AST CODIERSTIFT-AST	319 319	06.600.3327.0 06.600.3427.0	DIN 46228-E16 -12 DIN 46228-E16 -18	■ 796 ■ 796
05.507.8621.0	M 16 x 1,5 - M 20 x 1,5	778	05.561.9553.0	WIEBOX CN BL1	594	06.600.3527.0	DIN 46228-E25 -18	796
05.507.8721.0	M 20 x 1,5 - M 25 x 1,5	778	05.561.9653.0	WIEBOX CN BL2	594	06.600.4027.0	DIN 46228-A 0,5 - 6	796
05.507.8821.0	M 25 x 1,5 - M 32 x 1,5	778	05.562.1389.0		410	06.600.4127.0	DIN 46228-A 0,75- 6	796
05.507.8921.0	M 32 x 1,5 - M 40 x 1,5	778	05.562.2453.0	LEL 1,5/1 WEISS	33	06.600.4227.0	DIN 46228-A 1 - 6	796
05.507.9021.0	M 20 x 1,5 - M 16 x 1,5	778	05.562.2453.0	LEL 1,5/1 WEISS	309	06.600.4327.0	DIN 46228-A 1,5 - 7	796
05.507.9121.0	M 25 x 1,5 - M 20 x 1,5	778	05.562.2553.0	LEL 1,5/2 GRAU	33	06.600.4427.0	DIN 46228-A 2,5 - 7	796
05.507.9221.0 05.507.9321.0	M 32 x 1,5 - M 25 x 1,5	778	05.562.2553.0	LEL 1,5/2 GRAU	309	06.600.4527.0 06.600.4627.0	DIN 46228-A 4 - 9	796
05.507.9321.0	M 40 x 1,5 - M 32 x 1,5 9011 A	778 191	05.562.2653.0 05.562.2653.0	LEL 1,5/3 SCHWARZ LEL 1,5/3 SCHWARZ	33 309	06.600.4727.0	DIN 46228-A 6 -10 DIN 46228-A10 -12	■ 796 ■ 796
05.508.3221.0	9011 B	101	05.562.3183.0	GUMMISTOPFEN KL.	755	06.600.4827.0	DIN 46228-A16 -12	796
05.508.6521.0	STECKERBUCHSE	191	05.562.3283.0	GUMMISTOPFEN GR.	755	06.600.4927.0	DIN 46228-A25 -15	796
05.508.8621.0	SCHRAUBBUCHSE	197	05.562.5957.1		389	06.600.5027.0	IN 46228-A35 -18	796
05.508.8721.0	SCHRAUBBUCHSE	197	05.562.6557.1		389	07.201.4227.0	VB RFK 1 185 2	157
05.508.8821.0	9011 C	176	05.562.8257.1		389	07.201.4327.0	VB RFK 1 185 3	157
05.508.882100	0011 D	197	05.563.5453.0		148	07.201.4427.0	VB RFK 1 185 4	157
05.508.8921.0 05.508.9721.0	9011 D SCHRAUBBUCHSE	176 197	05.563.8053.0 05.576.5853.0	WK 2511 /0112 C 1/C	124 137	07.201.8227.0 07.201.8327.0	VB RFK 1 240 2 VB RFK 1 240 3	159 159
05.508.9721.0	STECKERBUCHSE	176	05.576.5853.0	WK 2,5 U /8113 S-VS WK 2,5 U /8113 S-VS	311	07.201.8327.0	VB RFK 1 240 3 VB RFK 1 240 4	159
05.503.6021.0	O LONCHBOOLIGE	148	05.576.8312.0	**** 2,0 0 /0110 0-10	787	07.201.6427.0	VB RFK 1 / 95 / 2 / 32	153
05.511.2953.7		148	05.576.8412.0		787	07.205.1327.0	VB RFK 1 / 95 / 3 / 32	153
05.511.2953.8		148	05.576.8512.0		787	07.205.1427.0	VB RFK 1 / 95 / 4 / 32	153
05.511.2953.9		148	05.582.8153.0	SCHNELLMONT.GRIFF	175	07.205.5227.0		154
05.513.4212.0	SPERRBOLZ.M.FEDRG	786	05.582.8653.0	F.STCKHUELS.6,3 BIS2,50	175	07.205.5327.0		154
05.516.9510.0	GLEITMUTTER	215	05.582.8753.0	TD CTHEOV MAILE	175	07.205.7227.0		154
05.522.0725.0 05.522.7356.0	1039 W BEF.HALTER	263 331	05.583.0053.0 05.583.0053.0	TR.STUECK M. U-F TR.STUECK M. U-F	■ 584 ■ 675	07.205.7327.0 07.205.8227.0		154 155
05.522.7356.0	BEF.HALTER	331	05.583.0053.0	TR.STUECK M. U-F	586	07.205.8227.0		155
55.522.7755.0	DEL TITLETELL	_ 001	00.000.0100.0		_ 000	57.200.0027.0		
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Part no.	Туре	section / page	Part no.	Туре	section / page	Part no.	Type	section / page
07.205.9227.0		155	07.310.9853.0	AP 8113 SE	303	07.312.2253.6	TWF 2,5 - 4 BLAU	2 0
07.205.9327.0		155	07.311.0155.0	AP 2,5 - 4 /V0	78	07.312.2353.0	APF 2,5/D 1/2	26
07.250.0027.0 07.250.0227.0	VB 11/1 / 2	256 258	07.311.0155.6 07.311.0255.0	AP 2,5 - 4 BL/V0 AP 6 /V0	78 103	07.312.2353.6 07.312.2353.7	APF 2,5/D 1/2 BLAU APF 2,5/D 1/2 GRUEN	26 28
07.250.0327.0	VD 11/ 1 / Z	258	07.311.0255.6	AP 6 BL/V0	103	07.312.2453.0	TWF 2,5/D 1/2	26
07.250.0627.0	VB 11/1 / 6	258	07.311.0653.0	APM 2,5 F. / 15	144	07.312.2453.6	TWF 2,5/D 1/2 BLAU	26
07.250.1027.0 07.250.1627.0	VB 11 / 1 / 12 VERBINDUNGSKAMM #	258 256	07.311.0753.0 07.311.0853.0	APM 4 SL / 15 APM 2,5 - 4 / 15	145 145	07.312.2553.0 07.312.2553.6	APF 2,5/D 2/2 APF 2,5/D 2/2 BLAU	26 26
07.250.2527.0	VB 11/ 2	218	07.311.0853.6	APM 2,5 - 4 / 15 BLAU	145	07.312.2553.7	APF 2,5/D 2/2 GRUEN	28
07.250.3027.0 07.250.3127.0	VERBINDUNGSKAMM VERBINDUNGSKAMM #	128 128	07.311.1155.0 07.311.1155.6	TW 2,5 - 4 /V0 TW 2,5 - 4 BL/V0	78 78	07.312.2653.0 07.312.2653.6	TWF 2,5/D 2/2 TWF 2,5/D 2/2 BLAU	26 26
07.253.0027.0	VB 9786 M	128 259	07.311.11255.0	TW 6 /V0	78 103	07.312.2853.0	APF 4 TK	38
07.253.0227.0	VB 9786 2	130	07.311.1255.6	TW 6 BL/V0	103	07.312.3553.0	APF 1,5 E	33
07.253.0327.0 07.253.0427.0	VB 9786 3 VB 9786 4	130 168	07.311.1853.0 07.311.1853.6	TWM 2,5 - 4 /15 TW 2,5 - 4 /15 BLAU	145 145	07.312.3653.0 07.312.4153.0	TWF 1,5 E APF 2,5/D2 /8113	33 36
07.253.0627.0	VB 9786 6	130	07.311.2053.0	144 2,5 4,10 55 10	310	07.312.4153.0	APF 2,5/D2 /8113	308
07.255.0027.0	VB 0,5 WK 4 M-70	168 168	07.311.2053.8	TS 2,5 GELB TS 2,5 GELB	101 312	07.312.4153.6	APF 2,5/d2/8113 BLAU	36 308
07.255.0227.0 07.255.0327.0	VB 0,5 WK 4 2 VB 0,5 WK 4 3	168	07.311.2053.8 07.311.2153.8	TS 4 GELB	312 78	07.312.4153.6 07.312.4353.0	APF 2,5/d2/8113 BLAU APF 4 TK.	308
07.255.0427.0	VB 0,5 WK 4 4	168	07.311.2253.8	TS 6 GELB	103	07.312.4655.0	AP 2,5U/8113/V0	136
07.255.0527.0 07.255.0627.0	VB 0,5 WK 4 5	168 168	07.311.2353.8 07.311.2453.8	TS 10 GELB TS 16 GELB	78 69	07.312.4655.0 07.312.4753.0	AP 2,5U/8113/V0	310 37
07.255.0627.0	VB 0,5 WK 4 6 VB 0,5 WK 4 7	168	07.311.2453.8	TSM 2,5 / 15 GELB	144	07.312.4753.0	WKF 1,5E/8113/35 WKF 1,5E/8113/35	37 309
07.255.0827.0	VB 0,5 WK 4 8	168	07.311.2953.8	TS 4 / 15 GELB	112	07.312.4853.0	APF4/D1/2	27
07.255.0927.0 07.255.1027.0	VB 0,5 WK 4 9 VB 0,5 WK 410	168 168	07.311.3855.0 07.311.4055.0	AP 4 3S 1K / V0 AP 4 E /V0	138 114	07.312.4853.6 07.312.4853.7	APF4/D1/2 BLAU APF4/D1/2 GRUEN	27 29
07.255.1027.0	VB 0,5 WK 410	168 168	07.311.4155.0	AP 10/SI /V0	114 125	07.312.4953.0	TWF 4/D1/2	29
07.255.1227.0	VB 0,5 WK 412	168	07.311.4255.0	AP 4 S/V0	141	07.312.4953.6	TWF 4/D1/2 BLAU	27
07.255.2027.0 07.255.2227.0	VB WK4 E M VB WK4 E - 2	168 168	07.311.4355.0 07.311.4455.0	AP 4 S / IW/V0 AP 3 S/V0	141 140	07.312.5053.0 07.312.5053.6	AP 1 - 2,5 AP 1 - 2,5 BLAU	232
07.255.2327.0	VB WK4 E - 3	168	07.311.4555.0	AP 3 S / IW/V0	140	07.312.5053.7	AP 1 - 2,5 GRUEN	232
07.255.2427.0	VB WK4 E - 4	168	07.311.4655.0	AP 5 S/V0	139	07.312.5153.0	TW 1 - 2,5	232
07.255.2527.0 07.255.2627.0	VB WK4 E - 5 VB WK4 E - 6	168 168	07.311.5055.0 07.311.6155.0	TW 4 E /V0 AP 4 TK /V0	114 122	07.312.5153.6 07.312.5253.0	TW 1 - 2,5 APC 1-2,5 D./TK.	232
07.255.2627.0	VB WK4 E - 0 VB WK4 E - 7	168	07.311.6155.6	AP 4 TK BL /V0	123	07.312.5253.0	APC 1-2,5 D./TK. BLAU	234
07.255.2827.0	VB WK4 E - 8	168	07.311.6355.0	AP 4/D /V0	112	07.312.5253.7	APC 1-2,5 D./TK.GRUEN	235
07.255.2927.0 07.255.3027.0	VB WK4 E - 9 VB WK4 E - 10	168 168	07.311.6355.6 07.311.6455.0	AP 4/D BL /V0 AP4 /D1 /2 /V0	112 112	07.312.5353.0 07.312.5353.6	TWC 1 - 2,5 D1. TWC 1 - 2,5 D1. BLAU	234
07.255.3027.0	VB WK 4E - 11	168	07.311.6455.6	AI 4 / DI / Z / VO	112 112	07.312.5353.0	APC 1-2,5 D2./E.	234
07.255.3227.0	VB WK4 E - 12	168	07.311.6555.0	API 4/2/V0	69	07.312.5453.6	APC 1-2,5 D 2./E. BLAU	236
07.255.4027.0 07.255.4227.0	VB 1 WK 4 M-70 VB 1 WK 4 2	168 168	07.311.6655.0 07.311.6655.6	APN 10 /V0 APN 10 BL/V0	103 103	07.312.5453.7 07.312.5553.0	APC 1-2,5 D 2./E. GRUEN TWC 1 - 2,5 D2./ E	237
07.255.4227.0	VB 1 WK 4 3	168	07.311.6755.0	APN 16 /V0	104	07.312.5553.6	TWC 1 - 2,5 D2./ E BLAU	236
07.255.4427.0	VB 1 WK 4 4	168	07.311.6755.6	APN 16 BL/V0	104	07.312.5653.0	APF 4 NT	24
07.255.4527.0 07.255.4627.0	VB 1 WK 4 5 VB 1 WK 4 6	168 168	07.311.6855.0 07.311.6955.0	API 4/3/V0 TWI 4/V0	74 72	07.312.5753.0 07.312.5753.7	APF 4 E APF 4 E GRUEN	30 31
07.255.4727.0	VB 1 WK 4 7	168	07.311.7655.0	TWN 10 /V0	103	07.312.5853.0	TWF 4 E	30
07.255.4827.0	VB 1 WK 4 8	168	07.311.7655.6	TWN 10 BL/V0	103	07.312.5953.0		40
07.255.4927.0 07.255.5027.0	VB 1 WK 4 9 VB 1 WK 410	168 168	07.311.7755.0 07.311.7755.6	TWN 16 /V0 TWN 16 BL/V0	104 104	07.312.6053.0 07.340.0353.0	TE / RFK 1 / 95 PA/V0	177 156
07.255.5127.0	VB 1 WK 411	168	07.311.7855.0	TWN 35 /V0	105	07.340.1053.0	TE/RFK 1/150-240 PA/V0	157
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25.198.4353.0 25.198.5253.0	8192 E / 3 / 6 ZN 8192 E / 2 / 4 OB	364 364	25.230.4253.0 25.230.4353.0	8113 B / 12 TOP LED OB	296 296	25.320.0253.0 25.320.0353.0	8113 B / 2 8113 B / 3	286 286
25.198.5353.0	8192 E / 3 / 6 OB	364	25.230.4453.0		296	25.320.0453.0	8113 B / 4	286
25.198.5453.0 25.198.5553.0	8192 E / 4 / 8 OB 8192 E / 5 / 10 OB	■ 364 ■ 364	25.230.4553.0 25.230.4653.0	8113 B / 15 TOP LED OB 8113 B / 16 TOP LED OB	296 296	25.320.0553.0 25.320.0653.0	8113 B / 5 8113 B / 6	286 286
25.198.5653.0	8192 E / 6 / 12 OB	364	25.240.0253.0	8213 B / 2 TOP	296	25.320.0753.0	8113 B / 7	286
25.198.5753.0 25.198.5853.0	8192 E / 7 / 14 OB 8192 E / 8 / 16 OB	■ 364 ■ 364	25.240.0353.0 25.240.0453.0	8213 B / 3 TOP 8213 B / 4 TOP	296 296	25.320.0853.0 25.320.0953.0	8113 B / 8 8113 B / 9	286 286
25.198.5953.0 25.198.6053.0	8192 E / 9 / 18 OB	364 364	25.240.0553.0 25.240.0653.0	8213 B / 5 TOP	296 296	25.320.1053.0	8113 B / 10 8113 B / 11	286 286
25.198.6153.0	8192 E / 10 / 20 OB 8192 E / 11 / 22 OB	■ 364 ■ 364	25.240.0053.0	8213 B / 6 TOP 8213 B / 7 TOP	296 296	25.320.1153.0 25.320.1253.0	8113 B / 12	286
25.198.6253.0 25.198.9253.0	8192 E / 12 / 24 OB 8192 E / 2 / 4 ZN OB	364 364	25.240.0853.0 25.240.0953.0	8213 B / 8 TOP 8213 B / 9 TOP	296 296	25.320.1353.0 25.320.1453.0	8113 B / 13 8113 B / 14	286 286
25.198.9353.0	8192 E / 3 / 6 ZN OB	364	25.240.1053.0	8213 B / 10 TOP	296	25.320.1553.0	8113 B / 15	286
25.199.0253.0 25.199.0353.0	8292 E / 2 / 4 8292 E / 3 / 6	■ 364 ■ 364	25.240.1153.0 25.240.1253.0	8213 B / 11 TOP 8213 B / 12 TOP	296 296	25.320.1653.0 25.320.3253.0	8113 B / 16 8113 B / 2 OB	286 286
25.199.0453.0	8292 E / 4 / 8	364	25.240.1353.0	8213 B / 13 TOP	296	25.320.3353.0	8113 B / 3 OB	286
25.199.0553.0 25.199.0653.0	8292 E / 5 / 10 8292 E / 6 / 12	■ 364 ■ 364	25.240.1453.0 25.240.1553.0	8213 B / 14 TOP 8213 B / 15 TOP	296 296	25.320.3453.0 25.320.3553.0	8113 B / 4 OB 8113 B / 5 OB	286 286
25.199.0753.0	8292 E / 7 / 14	364	25.240.1653.0	8213 B / 16 TOP	296	25.320.3653.0	8113 B / 6 OB	286
25.199.0853.0 25.199.0953.0	8292 E / 8 / 16 8292 E / 9 / 18	■ 364 ■ 364	25.240.3253.0 25.240.3353.0	8213 B / 2 TOP OB 8213 B / 3 TOP OB	296 296	25.320.3753.0 25.320.3853.0	8113 B / 7 OB 8113 B / 8 OB	286 286
25.199.1053.0 25.199.1153.0	8292 E / 10 / 20 8292 E / 11 / 22	■ 364 ■ 364	25.240.3453.0 25.240.3553.0	8213 B / 4 TOP OB 8213 B / 5 TOP OB	296 296	25.320.3953.0 25.320.4053.0	8113 B / 9 OB 8113 B / 10 OB	286 286
25.199.1253.0	8292 E / 12 / 24	364	25.240.3653.0	8213 B / 6 TOP OB	296	25.320.4153.0	8113 B / 11 OB	286
25.199.4253.0 25.199.4353.0	8292 E / 2 / 4 ZN 8292 E / 3 / 6 ZN	■ 364 ■ 364	25.240.3753.0 25.240.3853.0	8213 B / 7 TOP OB 8213 B / 8 TOP OB	296 296	25.320.4253.0 25.320.4353.0	8113 B / 12 OB 8113 B / 13 OB	286 286
25.199.5253.0	8292 E / 2 / 4 OB	364	25.240.3953.0	8213 B / 9 TOP OB	296	25.320.4453.0	8113 B / 14 OB	286
25.199.5353.0 25.199.5453.0	8292 E / 3 / 6 OB 8292 E / 4 / 8 OB	■ 364 ■ 364	25.240.4053.0 25.240.4153.0	8213 B / 10 TOP OB 8213 B / 11 TOP OB	296 296	25.320.4553.0 25.320.4653.0	8113 B / 15 OB 8113 B / 16 OB	286 286
25.199.5553.0 25.199.5653.0	8292 E / 5 / 10 OB 8292 E / 6 / 12 OB	364 364	25.240.4253.0	8213 B / 12 TOP OB 8213 B / 13 TOP OB	296 296	25.322.0253.0 25.322.0353.0	8113 B / 2 F	286 286
25.199.5753.0	8292 E / 7 / 14 OB	■ 364 ■ 364	25.240.4353.0 25.240.4453.0	8213 B / 14 TOP OB	296	25.322.0453.0	8113 B / 3 F 8113 B / 4 F	286
25.199.5853.0 25.199.5953.0	8292 E / 8 / 16 OB 8292 E / 9 / 18 OB	■ 364 ■ 364	25.240.4553.0 25.240.4653.0	8213 B / 15 TOP OB 8213 B / 16 TOP OB	296 296	25.322.0553.0 25.322.0653.0	8113 B / 5 F 8113 B / 6 F	286 286
25.199.6053.0	8292 E / 10 / 20 OB	364	25.303.0253.0	8213 S 2 DFWW	305	25.322.0753.0	8113 B / 7 F	286
25.199.6153.0 25.199.6253.0	8292 E / 11 / 22 OB 8292 E / 12 / 24 OB	■ 364 ■ 364	25.303.0353.0 25.303.0453.0	8213 S / 3 DFWW 8213 S / 4 DFWW	305 305	25.322.0853.0 25.322.0953.0	8113 B / 8 F 8113 B / 9 F	286 286
25.199.9253.0	8292 E / 2 / 4 ZN OB	364	25.303.0553.0	8213 S / 5 DFWW	305	25.322.1053.0	8113 B / 10 F	286
25.199.9353.0 25.220.0253.0	8292 E / 3 / 6 ZN OB 8113 B / 2 TOP	364 296	25.303.0653.0 25.303.0753.0	8213 S / 6 DFWW 8213 S / 7 DFWW	305 305	25.322.1153.0 25.322.1253.0	8113 B / 11 F 8113 B / 12 F	286 286
25.220.0353.0 25.220.0453.0	8113 B / 3 TOP 8113 B / 4 TOP	296 296	25.303.0853.0 25.303.0953.0	8213 S / 8 DFWW 8213 S / 9 DFWW	305 305	25.322.1353.0 25.322.1453.0	8113 B / 13 F 8113 B / 14 F	286 286
25.220.0553.0	8113 B / 5 TOP	296	25.303.1053.0	8213 S / 10 DFWW	305	25.322.1553.0	8113 B / 15 F	286
25.220.0653.0 25.220.0753.0	8113 B / 6 TOP 8113 B / 7 TOP	296 296	25.303.1153.0 25.303.1253.0	8213 S / 11 DFWW 8213 S / 12 DFWW	305 305	25.322.1653.0 25.322.3253.0	8113 B / 16 F 8113 B / 2 F OB	286 286
25.220.0853.0	8113 B / 8 TOP	296	25.303.1353.0	8213 S / 13 DFWW	305	25.322.3353.0	8113 B / 3 F OB	286
25.220.0953.0 25.220.1053.0	8113 B / 9 TOP 8113 B / 10 TOP	296 296	25.303.1453.0 25.303.1553.0	8213 s / 14 DFWW 8213 S / 15 DFWW	305 305	25.322.3453.0 25.322.3553.0	8113 B / 4 F OB 8113 B / 5 F OB	286 286
25.220.1153.0 25.220.1253.0	8113 B / 11 TOP 8113 B / 12 TOP	296 296	25.303.1653.0 25.303.3253.0	8213 S / 16 DFWW 8213 S / 2 DFLS	305 305	25.322.3653.0 25.322.3753.0	8113 B / 6 F OB 8113 B / 7 F OB	286 286
25.220.1353.0	8113 B / 13 TOP	296	25.303.3353.0	8213 S / 3 DFLS	305	25.322.3853.0	8113 B / 8 F OB	286
25.220.1453.0 25.220.1553.0	8113 B / 14 TOP 8113 B / 15 TOP	296 296	25.303.3453.0 25.303.3553.0	8213 S / 4 DFLS 8213 S / 5 DFLS	305 305	25.322.3953.0 25.322.4053.0	8113 B / 9 F OB 8113 B / 10 F OB	286 286
25.220.1653.0	8113 B / 16 TOP	296	25.303.3653.0	8213 S / 6 DFLS	305	25.322.4153.0	8113 B / 11 F OB	286
25.220.3253.0 25.220.3353.0	8113 B / 2 TOP OB 8113 B / 3 TOP OB	296 296	25.303.3753.0 25.303.3853.0	8213 S / 7 DFLS 8213 S / 8 DFLS	■ 305 ■ 305	25.322.4253.0 25.322.4353.0	8113 B / 12 F OB 8113 B / 13 F OB	286 286
25.220.3453.0 25.220.3553.0	8113 B / 4 TOP OB 8113 B / 5 TOP OB	296 296	25.303.3953.0 25.303.4053.0	8213 S / 9 DFLS 8213 S / 10 DFLS	305 305	25.322.4453.0 25.322.4553.0	8113 B / 14 F OB 8113 B / 15 F OB	286 286
25.220.3653.0	8113 B / 6 TOP OB	296	25.303.4153.0	8213 S / 11 DFLS	305	25.322.4653.0	8113 B / 16 F OB	286
25.220.3753.0 25.220.3853.0	8113 B / 7 TOP OB 8113 B / 8 TOP OB	296 296	25.303.4253.0 25.303.4353.0	8213 S / 12 DFLS 8213 S / 13 DFLS	305 305	25.323.0253.0 25.323.0353.0	8213 B / 2 F 8213 B / 3 F	286 286
25.220.3953.0	8113 B / 9 TOP OB	296	25.303.4453.0	8213 S / 14 DFLS	305	25.323.0453.0	8213 B / 4 F	286
25.220.4053.0 25.220.4153.0	8113 B / 10 TOP OB 8113 B / 11 TOP OB	296 296	25.303.4553.0 25.303.4653.0	8213 S / 15 DFLS 8213 S / 16 DFLS	305 305	25.323.0553.0 25.323.0653.0	8213 B / 5 F 8213 B / 6 F	286 286
25.220.4253.0	8113 B / 12 TOP OB 8113 B / 13 TOP OB	296	25.313.0253.0 25.313.0353.0	8213 S / 2 DFWW M 8213 S / 3 DFWW M	305 305	25.323.0753.0 25.323.0853.0	8213 B / 7 F	286 286
25.220.4353.0 25.220.4453.0	8113 B / 14 TOP OB	296	25.313.0453.0	8213 S / 4 DFWW M	305	25.323.0953.0	8213 B / 8 F 8213 B / 9 F	286
25.220.4553.0 25.220.4653.0	8113 B / 15 TOP OB 8113 B / 16 TOP OB	296 296	25.313.0553.0 25.313.0653.0	8213 S / 5 DFWW M 8213 S / 6 DFWW M	305 305	25.323.1053.0 25.323.1153.0	8213 B / 10 F 8213 B / 11 F	286 286
25.230.0253.0	0110 27 10 101 02	296	25.313.0753.0	8213 S / 7 DFWW M	305	25.323.1253.0	8213 B / 12 F	286
25.230.0353.0 25.230.0453.0		296 296	25.313.0853.0 25.313.0953.0	8213 S / 8 DFWW M 8213 S / 9 DFWW M	305 305	25.323.1353.0 25.323.1453.0	8213 B / 13 F 8213 B / 14 F	286 286
25.230.0553.0		296	25.313.1053.0	8213 S / 10 DFWW M	305	25.323.1553.0	8213 B / 15 F	286
25.230.0653.0 25.230.0753.0		296 296	25.313.1153.0 25.313.1253.0	8213 S / 11 DFWW M 8213 S / 12 DFWW M	305 305	25.323.1653.0 25.323.3253.0	8213 B / 16 F 8213 B / 2 F 0B	286 286
25.230.0853.0 25.230.0953.0		296 296	25.313.1353.0 25.313.1453.0	8213 S / 13 DFWW M 8213 S / 14 DFWW M	305 305	25.323.3353.0 25.323.3453.0	8213 B / 3 F OB 8213 B / 4 F OB	286 286
25.230.1053.0		296	25.313.1553.0	8213 S / 15 DFWW M	305	25.323.3501.0	8213 B / 5 F OB GOLD	411
25.230.1153.0 25.230.1253.0		296 296	25.313.1653.0 25.313.3253.0	8213 S / 16 DFWW M 8213 S / 2 DFLS M	305 305	25.323.3553.0 25.323.3653.0	8213 B / 5 F OB 8213 B / 6 F OB	286 286
25.230.1353.0		296	25.313.3353.0	8213 S / 3 DFLS M	305	25.323.3753.0	8213 B / 7 F OB	286
25.230.1453.0 25.230.1553.0		296 296	25.313.3453.0 25.313.3553.0	8213 S / 4 DFLS M 8213 S / 5 DFLS M	305 305	25.323.3853.0 25.323.3953.0	8213 B / 8 F OB 8213 B / 9 F OB	286 286
25.230.1653.0		296	25.313.3653.0	8213 S / 6 DFLS M	305	25.323.4053.0	8213 B / 10 F 0B	286
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25.324.0353.0	8313 B / 3 F	288	25.326.3953.0	8113 B / 9 VL OB	289	25.340.4053.0	8213 B / 10 OB	286
25.324.0453.0 25.324.0553.0	8313 B / 4 F 8313 B / 5 F	288 288	25.326.4053.0 25.326.4153.0	8113 B / 10 VL OB 8113 B / 11 VL OB	289 289	25.340.4153.0 25.340.4253.0	8213 B / 11 OB 8213 B / 12 OB	286 286
25.324.0653.0	8313 B / 6 F	288	25.326.4253.0	8113 B / 12 VL OB	289	25.340.4353.0	8213 B / 13 OB	286
25.324.0753.0 25.324.0853.0	8313 B / 7 F 8313 B / 8 F	288 288	25.326.4353.0 25.326.4453.0	8113 B / 13 VL OB 8113 B / 14 VL OB	289 289	25.340.4453.0 25.340.4553.0	8213 B / 14 OB 8213 B / 15 OB	286 286
25.324.0953.0	8313 B / 9 F	288	25.326.4553.0	8113 B / 15 VL OB	289	25.340.4653.0	8213 B / 16 OB	286
25.324.1053.0 25.324.1153.0	8313 B / 10 F 8313 B / 11 F	288 288	25.326.4653.0 25.330.3253.0	8113 B / 16 VL OB 8113 S / 2 G OB	289 297	25.342.0253.0 25.342.0353.0	8213 BL / 2 G 8213 BL / 3 G	295 295
25.324.1253.0	8313 B / 12 F	288	25.330.3353.0	8113 S / 3 G OB	297	25.342.0453.0	8213 BL / 4 G	295
25.324.2253.0 25.324.2353.0	8313 B / 2 F OB 8313 B / 3 F OB	288 288	25.330.3453.0 25.330.3553.0	8113 S / 4 G OB 8113 S / 5 G OB	297 297	25.342.0553.0 25.342.0653.0	8213 BL / 5 G 8213 BL / 6 G	295 295
25.324.2453.0	8313 B / 4 F OB	288	25.330.3653.0	8113 S / 6 G OB	297	25.342.0753.0	8213 BL / 7 G	295
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25.324.2753.0	8313 B / 7 F OB	288	25.330.3953.0	8113 S / 9 G OB	297	25.342.1053.0	8213 BL / 10 G	295
25.324.2853.0 25.324.2953.0	8313 B / 8 F OB 8313 B / 9 F OB	288 288	25.330.4053.0 25.330.4153.0	8113 S / 10 G OB 8113 S / 11 G OB	297 297	25.342.1153.0 25.342.1253.0	8213 BL / 11 G 8213 BL / 12 G	295 295
25.324.3053.0	8313 B / 10 F OB	288	25.330.4253.0	8113 S / 12 G OB	297	25.342.1353.0	8213 BL / 13 G	295
25.324.3153.0 25.324.3253.0	8313 B / 11 F 0B 8313 B / 12 F 0B	288 288	25.330.4353.0 25.330.4453.0	8113 S / 13 G OB 8113 S / 14 G OB	297 297	25.342.1453.0 25.342.1553.0	8213 BL / 14 G 8213 BL / 15 G	295 295
25.324.4253.0	8413 B / 2 F	288	25.330.4553.0	8113 S / 15 G OB	297	25.342.1653.0	8213 BL / 16 G	295
25.324.4353.0 25.324.4453.0	8413 B / 3 F 8413 B / 4 F	288 288	25.330.4653.0 25.332.3253.0	8113 S / 16 G OB 8113 S / 2 W OB	297 298	25.342.3253.0 25.342.3353.0	8213 BL / 2 G OB 8213 BL / 3 G OB	295 295
25.324.4553.0	8413 B / 5 F	288	25.332.3353.0	8113 S / 3 W OB	298	25.342.3453.0	8213 BL / 4 G OB	295
25.324.4653.0 25.324.4753.0	8413 B / 6 F 8413 B / 7 F	288 288	25.332.3453.0 25.332.3553.0	8113 S / 4 W OB 8113 S / 5 W OB	298 298	25.342.3553.0 25.342.3653.0	8213 BL / 5 G OB 8213 BL / 6 G OB	295 295
25.324.4853.0	8413 B / 8 F	288	25.332.3653.0	8113 S / 6 W OB	298	25.342.3753.0	8213 BL / 7 G OB	295
25.324.4953.0 25.324.5053.0	8413 B / 9 F 8413 B / 10 F	288 288	25.332.3753.0 25.332.3853.0	8113 S / 7 W OB 8113 S / 8 W OB	298 298	25.342.3853.0 25.342.3953.0	8213 BL / 8 G OB 8213BL / 9 G OB	295 295
25.324.5153.0	8413 B / 11 F	288	25.332.3953.0	8113 S / 9 W OB	298	25.342.4053.0	8213 BL / 10 G OB	295
25.324.5253.0 25.324.6253.0	8413 B / 12 F 8413 B / 2 F OB	288 288	25.332.4053.0 25.332.4153.0	8113 S / 10 W 0B 8113 S / 11 W 0B	298 298	25.342.4153.0 25.342.4253.0	8213 BL / 11 G OB 8213 BL / 12 G OB	295 295
25.324.6353.0	8413 B / 3 F OB	288	25.332.4253.0	8113 S / 12 W OB	298	25.342.4353.0	8213 BL / 13 G OB	295
25.324.6453.0 25.324.6553.0	8413 B / 4 F OB 8413 B / 5 F OB	288 288	25.332.4353.0 25.332.4453.0	8113 S / 13 W 0B 8113 S / 14 W 0B	298 298	25.342.4453.0 25.342.4553.0	8213 BL / 14 G OB 8213 BL / 15 G OB	295 295
25.324.6653.0	8413 B / 6 F OB	288	25.332.4553.0	8113 S / 15 W OB	298	25.342.4653.0	8213 BL / 16 G OB	295
25.324.6753.0 25.324.6853.0	8413 B / 7 F OB 8413 B / 8 F OB	288 288	25.332.4653.0 25.334.3253.0	8113 S / 16 W 0B 8113 S E / 2 G 0B	■ 298 ■ 303	25.343.0253.0 25.343.0353.0	8213 BL / 2 W 8213 BL / 3 W	295 295
25.324.6953.0	8413 B / 9 F OB	288	25.334.3353.0	8113 S E / 3 G OB	303	25.343.0453.0	8213 BL / 4 W	295
25.324.7053.0 25.324.7153.0	8413 B / 10 F OB 8413 B / 11 F OB	288 288	25.336.3253.0 25.336.3353.0	8113 S E / 2 W OB 8113 S E / 3 W OB	■ 303 ■ 303	25.343.0553.0 25.343.0653.0	8213 BL / 5 W 8213 BL / 6 W	295 295
25.324.7253.0	8413 B / 12 F OB	288	25.338.3253.0	8113 S / 2 GF OB	298	25.343.0753.0	8213 BL / 7 W	295
25.325.0253.0 25.325.0353.0	8113 B / 2 VR 8113 B / 3 VR	289 289	25.338.3353.0 25.338.3453.0	8113 S / 3 GF OB 8113 S / 4 GF OB	298 298	25.343.0853.0 25.343.0953.0	8213 BL / 8 W 8213 BL / 9 W	295 295
25.325.0453.0	8113 B / 4 VR	289	25.338.3553.0	8113 S / 5 GF OB	298	25.343.1053.0	8213 BL / 10 W	295
25.325.0553.0 25.325.0653.0	8113 B / 5 VR 8113 B / 6 VR	289 289	25.338.3653.0 25.338.3753.0	8113 S / 6 GF OB 8113 S / 7 GF OB	298 298	25.343.1153.0 25.343.1253.0	8213 BL / 11 W 8213 BL / 12 W	295 295
25.325.0753.0	8113 B / 7 VR	289	25.338.3853.0	8113 S / 8 GF OB	298	25.343.1353.0	8213 BL / 13 W	295
25.325.0853.0 25.325.0953.0	8113 B / 8 VR 8113 B / 9 VR	289 289	25.338.3953.0 25.338.4053.0	8113 S / 9 GF OB 8113 S / 10 GF OB	298 298	25.343.1453.0 25.343.1553.0	8213 BL / 14 W 8213 BL / 15 W	295 295
25.325.1053.0	8113 B / 10 VR	289	25.338.4153.0	8113 S / 11 GF OB	298	25.343.1653.0	8213 BL / 16 W	295
25.325.1153.0 25.325.1253.0	8113 B / 11 VR 8113 B / 12 VR	289 289	25.338.4253.0 25.338.4353.0	8113 S / 12 GF OB 8113 S / 13 GF OB	298 298	25.343.3253.0 25.343.3353.0	8213 BL / 2 W OB 8213 BL / 3 W OB	295 295
25.325.1353.0	8113 B / 13 VR	289	25.338.4453.0	8113 S / 14 GF OB	298	25.343.3453.0	8213 BL / 4 W OB	295
25.325.1453.0 25.325.1553.0	8113 B / 14 VR 8113 B / 15 VR	289 289	25.338.4553.0 25.338.4653.0	8113 S / 15 GF OB 8113 S / 16 GF OB	298 298	25.343.3553.0 25.343.3653.0	8213 BL / 5 W OB 8213 BL / 6 W OB	295 295
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25.325.3253.0 25.325.3353.0	8113 B / 2 VR OB 8113 B / 3 VR OB	289 289	25.339.3353.0 25.339.3453.0	8113 S / 3 WF OB 8113 S / 4 WF OB	299 299	25.343.3853.0 25.343.3953.0	8213 BL / 8 W OB 8213 BL / 9W OB	295 295
25.325.3453.0	8113 B / 4 VR OB	289	25.339.3553.0	8113 S / 5 WF 0B	299	25.343.4053.0	8213 BL / 10 W 0B	295
25.325.3553.0 25.325.3653.0	8113 B / 5 VR OB 8113 B / 6 VR OB	289 289	25.339.3653.0 25.339.3753.0	8113 S / 6 WF OB 8113 S / 7 WF OB	299 299	25.343.4153.0 25.343.4253.0	8213 BL / 11 W OB 8213 BL / 12 W OB	295 295
25.325.3753.0	8113 B / 7 VR OB	289	25.339.3853.0	8113 S / 8 WF 0B	299	25.343.4353.0	8213 BL / 13 W OB	295
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25.325.4053.0	8113 B / 10 VR OB	289	25.339.4153.0	8113 S / 11 WF OB	299	25.343.4653.0	8213 BL / 16 W 0B	295
25.325.4153.0 25.325.4253.0	8113 B / 11 VR OB 8113 B / 12 VR OB	289 289	25.339.4253.0 25.339.4353.0	8113 S / 12 WF OB 8113 S / 13 WF OB	299 299	25.345.0253.0 25.345.0353.0	8213 B / 2 VR 8213 B / 3 VR	289 289
25.325.4353.0	8113 B / 13 VR OB	289	25.339.4453.0	8113 S / 14 WF OB	299	25.345.0453.0	8213 B / 4 VR	289
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25.326.0453.0	8113 B / 4 VL	289	25.340.0553.0	8213 B / 5	286	25.345.1053.0	8213 B / 10 VR	289
25.326.0553.0 25.326.0653.0	8113 B / 5 VL 8113 B / 6 VL	289 289	25.340.0653.0 25.340.0753.0	8213 B / 6 8213 B / 7	286 286	25.345.1153.0 25.345.1253.0	8213 B / 11 VR 8213 B / 12 VR	289 289
25.326.0753.0	8113 B / 7 VL	289	25.340.0853.0	8213 B / 8	286	25.345.1353.0	8213 B / 13 VR	289
25.326.0853.0 25.326.0953.0	8113 B / 8 VL 8113 B / 9 VL	289 289	25.340.0953.0 25.340.1053.0	8213 B / 9 8213 B / 10	286 286	25.345.1453.0 25.345.1553.0	8213 B / 14 VR 8213 B / 15 VR	289 289
25.326.1053.0	8113 B / 10 VL	289	25.340.1153.0	8213 B / 11	286	25.345.1653.0	8213 B / 16 VR	289
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25.326.1353.0	8113 B / 13 VL	289	25.340.1453.0	8213 B / 14	286	25.345.3453.0	8213 B / 4 VR OB	289
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25.346.0453.0	8213 B / 4 VL	289	25.360.0553.0	8313 B / 5	288	25.385.1253.0	8413 B / 12 VR	290
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25.346.3453.0	8213 B / 4 VL OB	289	25.360.3953.0	8313 B / 9 OB	288	25.386.0553.0	8413 B / 5 VL	290
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25.346.3753.0	8213 B / 7 VL OB	289	25.360.4253.0	8313 B / 12 OB	288	25.386.0853.0	8413 B / 8 VL	290
25.346.3853.0	8213 B / 8 VL OB	289	25.370.3253.0	8313 S / 2 G OB	300	25.386.0953.0	8413 B / 9 VL	290
25.346.3953.0 25.346.4053.0	8213 B / 9 VL 0B 8213 B / 10 VL 0B	289 289	25.370.3353.0 25.370.3453.0	8313 S / 3 G OB 8313 S / 4 G OB	300 300	25.386.1053.0 25.386.1153.0	8413 B / 10 VL 8413 B / 11 VL	290 290
25.346.4153.0	8213 B / 11 VL OB	289	25.370.3553.0	8313 S / 5 G OB	300	25.386.1253.0	8413 B / 12 VL	290
25.346.4253.0	8213 B / 12 VL OB	289	25.370.3653.0	8313 S / 6 G OB	300	25.386.2253.0	8413 B / 2 VL OB	290
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25.346.4553.0	8213 B / 15 VL OB	289	25.370.3953.0	8313 S / 9 G OB	300	25.386.2553.0	8413 B / 5 VL OB	290
25.346.4653.0	8213 B / 16 VL OB	289	25.370.4053.0	8313 S / 10 G OB	300	25.386.2653.0	8413 B / 6 VL OB	290
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25.350.3753.0	8213 S / 7 G OB	297 297	25.372.3553.0	8313 S / 5 W OB	301 301	25.386.3253.0	8413 B / 12 VL OB	290
25.350.3853.0	8213 S / 8 G OB	297	25.372.3653.0	8313 S / 6 W OB	301	25.390.3253.0	8413 S / 2 G OB	300
25.350.3953.0 25.350.4053.0	8213 S / 9 G OB 8213 S / 10 G OB	297 297	25.372.3753.0 25.372.3853.0	8313 S / 7 W 0B 8313 S / 8 W 0B	301 301	25.390.3353.0 25.390.3453.0	8413 S / 3 G OB 8413 S / 4 G OB	300 300
25.350.4053.0	8213 S / 11 G OB	297	25.372.3953.0	8313 S / 9 W OB	301	25.390.3553.0	8413 S / 5 G OB	300
25.350.4253.0	8213 S / 12 G OB	297	25.372.4053.0	8313 S / 10 W OB	301	25.390.3653.0	8413 S / 6 G OB	300
25.350.4353.0 25.350.4453.0	8213 S / 13 G OB 8213 S / 14 G OB	297 297	25.372.4153.0 25.372.4253.0	8313 S / 11 W OB 8313 S / 12 W OB	301 301	25.390.3753.0 25.390.3853.0	8413 S / 7 G OB 8413 S / 8 G OB	300 300
25.350.4553.0	8213 S / 15 G OB	297	25.374.2253.0	8313 S / 2 WF 0B	301	25.390.3953.0	8413 S / 9 G OB	300
25.350.4653.0	8213 S / 16 G OB	297	25.374.2353.0	8313 S / 3 WF OB	301	25.390.4053.0	8413 S / 10 G OB	300
25.352.3253.0 25.352.3353.0	8213 S / 2 W OB 8213 S / 3 W OB	298 298	25.374.2453.0 25.374.2553.0	8313 S / 4 WF 0B 8313 S / 5 WF 0B	301 301	25.390.4153.0 25.390.4253.0	8413 S / 11 G OB 8413 S / 12 G OB	■ 300 ■ 300
25.352.3453.0	8213 S / 4 W OB	298	25.374.2653.0	8313 S / 6 WF OB	301	25.392.3253.0	8413 S / 2 W OB	301
25.352.3553.0	8213 S / 5 W OB	298 298	25.374.2753.0	8313 S / 7 WF OB	301 301	25.392.3353.0	8413 S / 3 W OB 8413 S / 4 W OB	■ 301 ■ 301
25.352.3653.0 25.352.3753.0	8213 S / 6 W OB 8213 S / 7 W OB	298 298	25.374.2853.0 25.374.2953.0	8313 S / 8 WF 0B 8313 S / 9 WF 0B	301 301	25.392.3453.0 25.392.3553.0	8413 S / 4 W OB 8413 S / 5 W OB	301 301
25.352.3853.0	8213 S / 8 W OB	298	25.374.3053.0	8313 S / 10 WF OB	301	25.392.3653.0	8413 S / 6 W OB	301
25.352.3953.0 25.352.4053.0	8213 S / 9 W OB 8213 S / 10 W OB	298 298	25.374.3153.0 25.374.3253.0	8313 S / 11 WF OB 8313 S / 12 WF OB	301 301	25.392.3753.0 25.392.3853.0	8413 S / 7 W OB 8413 S / 8 W OB	301 301
25.352.4153.0	8213 S / 11 W OB	298	25.374.6253.0	8313 S / 2 GF OB	300	25.392.3953.0	8413 S / 9 W OB	301
25.352.4253.0	8213 S / 12 W OB	298	25.374.6353.0	8313 S / 3 GF OB	300	25.392.4053.0	8413 S / 10 W 0B	301
25.352.4353.0 25.352.4453.0	8213 S / 13 W OB 8213 S / 14 W OB	298 298	25.374.6453.0 25.374.6553.0	8313 S / 4 GF OB 8313 S / 5 GF OB	300 300	25.392.4153.0 25.392.4253.0	8413 S / 11 W 0B 8413 S / 12 W 0B	301 301
25.352.4553.0	8213 S / 15 W OB	298	25.374.6653.0	8313 S / 6 GF OB	300	25.394.3253.0	8113 S / 2 S OB GR	302
25.352.4653.0 25.354.3253.0	8213 S / 16 W OB 8213 S E / 2 G OB	298 303	25.374.6753.0	8313 S / 7 GF OB 8313 S / 8 GF OB	300 300	25.394.3353.0 25.394.3453.0	8113 S / 3 S OB GR 8113 S / 4 S OB GR	302 302
25.354.3253.0 25.354.3353.0	8213 S E / 2 G OB 8213 S E / 3 G OB	303 303	25.374.6853.0 25.374.6953.0	8313 S / 8 GF OB 8313 S / 9 GF OB	300 300	25.394.3453.0	8113 S / 5 S OB GR	302 302
25.356.3253.0	8213 S E / 2 W OB	303	25.374.7053.0	8313 S / 10 GF OB	300	25.394.3653.0	8113 S / 6 S OB GR	302
25.356.3353.0 25.358.3253.0	8213 S E / 3 W 0B 8213 S / 2 WF 0B	303 299	25.374.7153.0 25.374.7253.0	8313 S / 11 GF OB 8313 S / 12 GF OB	300 300	25.394.3753.0 25.394.3853.0	8113 S / 7 S OB GR 8113 S / 8 S OB GR	■ 302 ■ 302
25.358.3353.0	8213 S / 3 WF OB	299	25.380.0253.0	8413 B / 2	288	25.394.3953.0	8113 S / 9 S OB GR	302
25.358.3453.0	8213 S / 4 WF OB	299	25.380.0353.0	8413 B / 3	288	25.394.4053.0	8113 S / 10 S OB GR	302
25.358.3553.0 25.358.3653.0	8213 S / 5 WF OB 8213 S / 6 WF OB	299 299	25.380.0453.0 25.380.0553.0	8413 B / 4 8413 B / 5	288 288	25.394.4153.0 25.394.4253.0	8113 S / 11 S OB GR 8113 S / 12 S OB GR	302 302
25.358.3753.0	8213 S / 7 WF 0B	299	25.380.0653.0	8413 B / 6	288	25.394.4353.0	8113 S / 13 S OB GR	302
25.358.3853.0	8213 S / 8 WF OB	299	25.380.0753.0	8413 B / 7	288	25.394.4453.0	8113 S / 14 S OB GR	302
25.358.3953.0 25.358.4053.0	8213 S / 9 WF OB 8213 S / 10 WF OB	299 299	25.380.0853.0 25.380.0953.0	8413 B / 8 8413 B / 9	288 288	25.394.4553.0 25.394.4653.0	8113 S / 15 S OB GR 8113 S / 16 S OB GR	■ 302 ■ 302
25.358.4153.0	8213 S / 11 WF OB	299	25.380.1053.0	8413 B / 10	288	25.395.3253.0	8113 S / 2 S1 OB GR	302
25.358.4253.0	8213 S / 12 WF OB	299	25.380.1153.0	8413 B / 11	288	25.395.3353.0	8113 S / 3 S1 OB	302
25.358.4353.0 25.358.4453.0	8213 S / 13 WF OB 8213 S / 14 WF OB	299 299	25.380.1253.0 25.380.3253.0	8413 B / 12 8413 B / 2 OB	288 288	25.395.3453.0 25.395.3553.0	8113 S / 4 S1 OB 8113 S / 5 S1 OB	■ 302 ■ 302
25.358.4553.0	8213 S / 15 WF OB	299	25.380.3353.0	8413 B / 3 OB	288	25.395.3653.0	8113 S / 6 S1 OB	302
25.358.4653.0	8213 S / 16 WF OB	299	25.380.3453.0	8413 B / 4 OB	288	25.395.3753.0	8113 S / 7 S1 OB	302
25.359.3253.0 25.359.3353.0	8213 S / 2 GF OB 8213 S / 3 GF OB	298 298	25.380.3553.0 25.380.3653.0	8413 B / 5 OB 8413 B / 6 OB	288 288	25.395.3853.0 25.395.3953.0	8113 S / 8 S1 OB 8113 S / 9 S1 OB	302 302
25.359.3453.0	8213 S / 4 GF OB	298	25.380.3753.0	8413 B / 7 OB	288	25.395.4053.0	8113 S / 10 S1 OB	302
25.359.3553.0 25.359.3653.0	8213 S / 5 GF OB 8213 S / 6 GF OB	298 298	25.380.3853.0 25.380.3953.0	8413 B / 8 OB 8413 B / 9 OB	288 288	25.395.4153.0 25.395.4253.0	8113 S / 11 S1 OB 8113 S / 12 S1 OB GR	302 302
25.359.3753.0	8213 S / 7 GF OB	298	25.380.4053.0	8413 B / 10 OB	288	25.395.4253.0	8113 S / 13 S1 OB GN	302
25.359.3853.0	8213 S / 8 GF OB	298	25.380.4153.0	8413 B / 11 OB	288	25.395.4453.0	8113 S / 14 S1 OB	302
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25.396.3453.0	8213 S / 4 S OB GR	302	25.471.1453.0	8520 BL / 14 W OB	325	25.502.1553.0	8234 / 15	360
25.396.3553.0	8213 S / 5 S OB GR	302	25.471.1553.0	8520 BL / 15 W 0B	325	25.502.1653.0	8234 / 16	360
25.396.3653.0 25.396.3753.0	8213 S / 6 S OB GR 8213 S / 7 S OB GR	302 302	25.471.1653.0 25.471.3253.0		325 325	25.502.6253.0 25.502.6353.0	8234 / 2 ZN 8234 / 3 ZN	360 360
25.396.3853.0	8213 S / 8 S OB GR	302	25.471.3353.0		325	25.503.0253.0	8234 / 2 OB	360
25.396.3953.0	8213 S / 9 S OB GR	302 302	25.471.3453.0		325	25.503.0353.0	8234 / 3 OB 8234 / 4 OB	360 360
25.396.4053.0 25.396.4153.0	8213 S / 10 S OB GR 8213 S / 11 S OB GR	302	25.471.3553.0 25.471.3653.0	8520 BL / 6 W	325 325	25.503.0453.0 25.503.0553.0	8234 / 4 OB 8234 / 5 OB	360
25.396.4253.0	8213 S / 12 S OB GR	302	25.471.3753.0	8520 BL / 7 W	325	25.503.0653.0	8234 / 6 OB	360
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25.396.4553.0	8213 S / 15 S OB GR	302	25.471.4053.0		325	25.503.0953.0	8234 / 9 OB	360
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25.602.5953.0	8543 / 9 OB	316	25.622.3753.0	8813 B / 7 VR OB	282	25.625.4353.0	8813 B / 13 VL F OB	283
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25.602.6253.0	8543 / 12 OB	316	25.622.4053.0	8813 B / 10 VR OB	282	25.625.4653.0	8813 B / 16 VL F OB	283
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25.780.1453.0	8158 / 14 TOP V OB	353	25.793.0453.0	8458 / 4 TOP H OB	354	25.821.4053.0		292
25.780.1553.0 25.780.1653.0	8158 / 15 TOP V OB 8158 / 16 TOP V OB	■ 353 ■ 353	25.793.0553.0 25.793.0653.0	8458 / 5 TOP H OB 8458 / 6 TOP H OB	354 354	25.821.4153.0 25.821.4253.0		292 292
25.781.0253.0	8258 / 2 TOP V OB	353	25.793.0753.0	8458 / 7 TOP H OB	354	25.821.4353.0		292
25.781.0353.0 25.781.0453.0	8258 / 3 TOP V OB 8258 / 4 TOP V OB	■ 353 ■ 353	25.793.0853.0 25.793.0953.0	8458 / 8 TOP H OB 8458 / 9 TOP H OB	354 354	25.821.4453.0 25.821.4553.0		292 292
25.781.0553.0	8258 / 5 TOP V OB	353	25.793.1053.0	8458 / 10 TOP H OB	354	25.821.4653.0		292
25.781.0653.0 25.781.0753.0	8258 / 6 TOP V OB 8258 / 7 TOP V OB	■ 353 ■ 353	25.793.1153.0 25.793.1253.0	8458 / 11 TOP H OB 8458 / 12 TOP H OB	354 354	25.840.0253.0 25.840.0353.0	8213 BFK / 2 TOP K 8213 BFK / 3 TOP K	292 292
25.781.0853.0	8258 / 8 TOP V OB	353	25.793.1353.0	8458 / 13 TOP H OB	354	25.840.0453.0	8213 BFK / 4 TOP K	292
25.781.0953.0 25.781.1053.0	8258 / 9 TOP V OB 8258 / 10 TOP V OB	■ 353 ■ 353	25.793.1453.0 25.793.1553.0	8458 / 14 TOP H OB 8458 / 15 TOP H OB	354 354	25.840.0553.0 25.840.0653.0	8213 BFK / 5 TOP K 8213 BFK / 6 TOP K	292 292
25.781.1153.0	8258 / 11 TOP V OB	353	25.793.1653.0	8458 / 16 TOP H OB	354	25.840.0753.0	8213 BFK / 7 TOP K	292
25.781.1253.0 25.781.1353.0	8258 / 12 TOP V OB 8258 / 13 TOP V OB	■ 353 ■ 353	25.820.0253.0 25.820.0253.0	8113 BFK / 2 TOP K 8113 BFK / 2 TOP K	37 292	25.840.0853.0 25.840.0953.0	8213 BFK / 8 TOP K 8213 BFK / 9 TOP K	292 292
25.781.1453.0	8258 / 14 TOP V OB	353	25.820.0353.0	8113 BFK / 3 TOP K	292	25.840.1053.0	8213 BFK /10 TOP K	292
25.781.1553.0	8258 / 15 TOP V OB	353	25.820.0453.0	8113 BFK / 4 TOP K	37	25.840.1153.0	8213 BFK /11 TOP K	292
25.781.1653.0 25.782.0253.0	8258 / 16 TOP V OB 8358 / 2 TOP V OB	■ 353 ■ 354	25.820.0453.0 25.820.0553.0	8113 BFK / 4 TOP K 8113 BFK / 5 TOP K	292 37	25.840.1253.0 25.840.1353.0	8213 BFK /12 TOP K 8213 BFK /13 TOP K	292 292
25.782.0353.0	8358 / 3 TOP V OB	354	25.820.0553.0	8113 BFK / 5 TOP K	292	25.840.1453.0	8213 BFK /14 TOP K	292
25.782.0453.0 25.782.0553.0	8358 / 4 TOP V OB 8358 / 5 TOP V OB	■ 354 ■ 354	25.820.0653.0 25.820.0653.0	8113 BFK / 6 TOP K 8113 BFK / 6 TOP K	37 292	25.840.1553.0 25.840.1653.0	8213 BFK /15 TOP K 8213 BFK /16 TOP K	292 292
25.782.0653.0	8358 / 6 TOP V OB	354	25.820.0753.0	8113 BFK / 7 TOP K	37	25.840.3253.0	8213 BFK / 2 TOP K OB	292
25.782.0753.0 25.782.0853.0	8358 / 7 TOP V OB 8358 / 8 TOP V OB	■ 354 ■ 354	25.820.0753.0 25.820.0853.0	8113 BFK / 7 TOP K 8113 BFK / 8 TOP K	292 37	25.840.3353.0 25.840.3453.0	8213 BFK / 3 TOP K OB 13 BFK / 4 TOP K OB	292 292
25.782.0953.0	8358 / 9 TOP V OB	354	25.820.0853.0	8113 BFK / 8 TOP K	292	25.840.3553.0	8213 BFK / 5 TOP K OB	292
25.782.1053.0 25.782.1153.0	8358 / 10 TOP V OB 8358 / 11 TOP V OB	■ 354 ■ 354	25.820.0953.0 25.820.0953.0	8113 BFK / 9 TOP K 8113 BFK / 9 TOP K	37 292	25.840.3653.0 25.840.3753.0	8213 BFK / 6 TOP K OB 8213 BFK / 7 TOP K OB	292 292
25.782.1253.0	8358 / 12 TOP V OB	354	25.820.1053.0	8113 BFK /10 TOP K	37	25.840.3853.0	8213 BFK / 8 TOP K OB	292
25.782.1353.0 25.782.1453.0	8358 / 13 TOP V OB 8358 / 14 TOP V OB	■ 354 ■ 354	25.820.1053.0 25.820.1153.0	8113 BFK /10 TOP K 8113 BFK /11 TOP K	292 37	25.840.3953.0 25.840.4053.0	8213 BFK / 9 TOP K OB 8213 BFK /10 TOP K OB	292 292
25.782.1553.0	8358 / 15 TOP V OB	354	25.820.1153.0	8113 BFK /11 TOP K	292	25.840.4153.0	8213 BFK /11 TOP K OB	292
25.782.1653.0	8358 / 16 TOP V OB	354 354	25.820.1253.0	8113 BFK /12 TOP K	37 292	25.840.4253.0	8213 BFK /12 TOP K OB	292 292
25.783.0253.0 25.783.0353.0	8458 / 2 TOP V OB 8458 / 3 TOP V OB	■ 354 ■ 354	25.820.1253.0 25.820.1353.0	8113 BFK /12 TOP K 8113 BFK /13 TOP K	292 37	25.840.4353.0 25.840.4453.0	8213 BFK /13 TOP K OB 8213 BFK /14 TOP K OB	292
25.783.0453.0	8458 / 4 TOP V OB	354	25.820.1353.0	8113 BFK /13 TOP K 8113 BFK /14 TOP K	292	25.840.4553.0 25.840.4653.0	8213 BFK /15 TOP K OB 8213 BFK /16 TOP K OB	292
25.783.0553.0 25.783.0653.0	8458 / 5 TOP V OB 8458 / 6 TOP V OB	■ 354 ■ 354	25.820.1453.0 25.820.1453.0	8113 BFK /14 TOP K 8113 BFK /14 TOP K	37 292	25.840.4653.0 25.841.0253.0	OZIO DEN / ID TUP N UB	292 292
25.783.0753.0	8458 / 7 TOP V OB	354	25.820.1553.0	8113 BFK /15 TOP K	37	25.841.0353.0		292
25.783.0853.0 25.783.0953.0	8458 / 8 TOP V OB 8458 / 9 TOP V OB	■ 354 ■ 354	25.820.1553.0 25.820.1653.0	8113 BFK /15 TOP K 8113 BFK /16 TOP K	292 37	25.841.0453.0 25.841.0553.0		292 292
25.783.1053.0	8458 / 10 TOP V OB	354	25.820.1653.0	8113 BFK /16 TOP K	292	25.841.0653.0		292
25.783.1153.0 25.783.1253.0	8458 / 11 TOP V OB 8458 / 12 TOP V OB	■ 354 ■ 354	25.820.3253.0 25.820.3253.0	8113 BFK / 2 TOP K OB 8113 BFK / 2 TOP K OB	37 292	25.841.0753.0 25.841.0853.0		292 292
25.783.1353.0	8458 / 13 TOP V OB	354	25.820.3353.0	8113 BFK / 3 TOP K OB	37	25.841.0953.0		292
25.783.1453.0 25.783.1553.0	8458 / 14 TOP V OB 8458 / 15 TOP V OB	■ 354 ■ 354	25.820.3353.0 25.820.3453.0	8113 BFK / 3 TOP K OB 8113 BFK / 4 TOP K OB	292 37	25.841.1053.0 25.841.1153.0		292 292
25.783.1653.0	8458 / 16 TOP V OB	354	25.820.3453.0	8113 BFK / 4 TOP K OB	292	25.841.1253.0	8213 BFK/12 TOP K F	292
25.790.0253.0 25.790.0353.0	8158 / 2 TOP H OB 8158 / 3 TOP H OB	353 353	25.820.3553.0 25.820.3553.0	8113 BFK / 5 TOP K OB 8113 BFK / 5 TOP K OB	37 292	25.841.1353.0 25.841.1453.0		292 292
25.790.0353.0 25.790.0453.0	8158 / 4 TOP H OB	353	25.820.3653.0 25.820.3653.0	8113 BFK / 6 TOP K OB	37	25.841.1553.0 25.841.1553.0		292
25.790.0553.0	8158 / 5 TOP H OB	353	25.820.3653.0	8113 BFK / 6 TOP K OB	292	25.841.1653.0		292
25.790.0653.0 25.790.0753.0	8158 / 6 TOP H OB 8158 / 7 TOP H OB	■ 353 ■ 353	25.820.3753.0 25.820.3753.0	8113 BFK / 7 TOP K OB 8113 BFK / 7 TOP K OB	37 292	25.841.3253.0 25.841.3353.0		292 292
25.790.0853.0	8158 / 8 TOP H OB	353	25.820.3853.0	8113 BFK / 8 TOP K OB	37	25.841.3453.0		292
25.790.0953.0 25.790.1053.0	8158 / 9 TOP H OB 8158 / 10 TOP H OB	■ 353 ■ 353	25.820.3853.0 25.820.3953.0	8113 BFK / 8 TOP K OB 8113 BFK / 9 TOP K OB	292 37	25.841.3553.0 25.841.3653.0		292 292
25.790.1153.0	8158 / 11 TOP H OB	353	25.820.3953.0	8113 BFK / 9 TOP K OB	292	25.841.3753.0		292
25.790.1253.0 25.790.1353.0	8158 / 12 TOP H OB 8158 / 13 TOP H OB	■ 353 ■ 353	25.820.4053.0 25.820.4053.0	8113 BFK /10 TOP K OB 8113 BFK /10 TOP K OB	37 292	25.841.3853.0 25.841.3953.0		292 292
25.790.1453.0	8158 / 14 TOP H OB	353	25.820.4153.0	8113 BFK /11 TOP K OB	37	25.841.4053.0		292
25.790.1553.0 25.790.1653.0	8158 / 15 TOP H OB 8158 / 16 TOP H OB	■ 353 ■ 353	25.820.4153.0 25.820.4253.0	8113 BFK /11 TOP K OB 8113 BFK /12 TOP K OB	292 37	25.841.4153.0 25.841.4253.0		292 292
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25.857.1453.0 25.857.1553.0	8213 SUFK/14 TOP 8213 SUFK/15 TOP	293 293	27.334.0853.0 27.334.0953.0		304 304	27.730.0453.0 27.730.0553.0	8152 / 5 TOP H OB	348 348
25.857.1653.0	8213 SUFK/16 TOP	293	27.334.1053.0	8113 SEG/10/20 G OB	304	27.730.0653.0	,	348
25.857.3253.0	8213 SUFK/ 2 TOP OB	293 293	27.334.1153.0		304 304	27.730.0753.0		348
25.857.3353.0 25.857.3453.0	8213 SUFK/ 3 TOP OB 8213 SUFK/ 4 TOP OB	293	27.334.1253.0 27.334.1353.0		304	27.730.0853.0 27.730.0953.0		348 348
25.857.3553.0	8213 SUFK/ 5 TOP OB	293	27.334.1453.0		304	27.730.1053.0	8152 / 10 TOP H OB	348
25.857.3653.0 25.857.3753.0	8213 SUFK/ 6 TOP OB 8213 SUFK/ 7 TOP OB	293 293	27.334.1553.0 27.334.1653.0		304 304	28.121.0240.0 28.121.0340.0	KBD 1 / 2 KR KBD 1 / 3 KR	266 266
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25.857.4053.0 25.857.4153.0	8213 SUFK/10 TOP OB 8213 SUFK/11 TOP OB	293 293	27.336.0453.0 27.336.0553.0	8113 SEG/ 5/10 W 0B	304 304	28.121.0640.0 28.121.0740.0	KBD 1 / 6 KR	266 266
25.857.4253.0	8213 SUFK/12 TOP OB	293	27.336.0653.0	0110 020/ 0/10 17 08	304	28.121.0840.0	KBD 1 / 8 KR	266
25.857.4353.0	8213 SUFK/13 TOP OB	293	27.336.0753.0		304	28.121.1040.0	KBD 1 /10 KR	266
25.857.4453.0 25.857.4553.0	8213 SUFK/14 TOP OB 8213 SUFK/15 TOP OB	293 293	27.336.0853.0 27.336.0953.0		304 304	28.121.1240.0 29.130.1353.0	KBD 1 /12 KR KL 58 / 3 / 1	266 268
25.857.4653.0	8213 SUFK/16 TOP OB	293	27.336.1053.0	8113 SEG/10/20 W OB	304	29.130.1553.0	KL 58 / 5 / 1	268
25.880.0253.0	8413 BFK / 2 TOP K	294	27.336.1153.0		304	29.130.1653.0	KL 58 / 6 / 1	268
25.880.0353.0 25.880.0453.0	8413 BFK / 3 TOP K 8413 BFK / 4 TOP K	294 294	27.336.1253.0 27.336.1353.0		304 304	29.130.2353.0 29.130.2553.0		268 268
25.880.0553.0	8413 BFK / 5 TOP K	294	27.336.1453.0		304	29.130.2653.0		268
25.880.0653.0 25.880.0753.0	8413 BFK / 6 TOP K 8413 BFK / 7 TOP K	294 294	27.336.1553.0 27.336.1653.0		304 304	29.131.1353.0 29.131.1553.0	KL 58 / 3 S / 1 KL 58 / 5 S / 1	269 269
25.880.0853.0	8413 BFK / 8 TOP K	294	27.341.3253.0		287	29.131.1653.0	KL 58 / 6 S / 1	269
25.880.0953.0	8413 BFK / 9 TOP K	294	27.341.3353.0		287	29.131.2353.0	KL 58 / 3 S R / 1	269
25.880.1053.0 25.880.1153.0	8413 BFK /10 TOP K 8413 BFK /11 TOP K	294 294	27.341.3453.0 27.341.3553.0	8213 B / 5 S OB	287 287	29.131.2553.0 29.131.2653.0	KL 58 / 5 S R / 1 KL 58 / 6 S R / 1	269 269
25.880.1253.0	8413 BFK /12 TOP K	294	27.341.3653.0		287	29.400.0453.0	KL 16 / 4 PA	256
25.880.3253.0	8413 BFK / 2 TOP K OB	294	27.341.3753.0		287	29.400.0653.0	KL 16 / 6 PA	256
25.880.3353.0 25.880.3453.0	8413 BFK / 3 TOP K OB 8413 BFK / 4 TOP K OB	294 294	27.341.3853.0 27.341.3953.0		287 287	29.400.0853.0 29.400.1253.0	KL 16 / 8 PA KL 16 / 12 PA	256 256
25.880.3553.0	8413 BFK / 5 TOP K OB	294	27.341.4053.0	8213 B / 10 S OB	287	29.400.1653.0	KL 16 / 16 PA	256
25.880.3653.0 25.880.3753.0	8413 BFK / 6 TOP K OB 8413 BFK / 7 TOP K OB	294 294	27.341.4153.0 27.341.4253.0		287 287	29.400.2053.0 29.401.0453.0	KL 16 / 20 PA KL 16 / 4 PA DS	256 256
25.880.3853.0	8413 BFK / 8 TOP K OB	294	27.341.4353.0		287	29.401.0653.0	KL 16 / 6 PA DS	256
25.880.3953.0	8413 BFK / 9 TOP K OB	294	27.341.4453.0		287	29.401.0853.0	KL 16 / 8 PA DS	256
25.880.4053.0 25.880.4153.0	8413 BFK /10 TOP K OB 8413 BFK /11 TOP K OB	294 294	27.341.4553.0 27.341.4653.0		287 287	29.401.1253.0 29.401.1653.0	KL 16 / 12 PA DS KL 16 / 16 PA DS	256 256
25.880.4253.0	8413 BFK /12 TOP K OB	294	27.354.0253.0		304	29.401.2053.0	KL 16 / 20 PA DS	256
25.881.0253.0 25.881.0353.0	8413 BFK / 2 TOP K F 8413 BFK / 3 TOP K F	294 294	27.354.0353.0 27.354.0453.0		304 304	29.500.0253.0 29.500.0353.0	KL 20 / 2 PA KL 20 / 4 PA	264 264
25.881.0453.0	8413 BFK / 4 TOP K F	294	27.354.0553.0	8213 SEG/ 5/10 G OB	304	29.500.1253.0	KL 20 / 2 DS PA	264
25.881.0553.0	8413 BFK / 5 TOP K F	294	27.354.0653.0		304	29.500.1353.0	KL 20 / 4 DS PA	264
25.881.0653.0 25.881.0753.0	8413 BFK / 6 TOP K F 8413 BFK / 7 TOP K F	294 294	27.354.0753.0 27.354.0853.0		304 304	29.500.3053.0 29.500.4053.0	KL 30 / 3 PA KL 30 / 3 DS PA	265 265
25.881.0853.0	8413 BFK / 8 TOP K F	294	27.354.0953.0		304	29.500.9253.0	KL 24 / 2	265
25.881.0953.0	8413 BFK / 9 TOP K F	294 294	27.354.1053.0 27.354.1153.0	8213 SEG/10/20 G OB	304 304	29.500.9353.0	KL 24 / 3 KL 24 / 4	265
25.881.1053.0 25.881.1153.0	8413 BFK /10 TOP K F 8413 BFK /11 TOP K F	294 294	27.354.1153.0		304	29.500.9453.0 29.500.9553.0	KL 24 / 4 KL 24 / 5	265 265
25.881.1253.0	8413 BFK /12 TOP K F	294	27.354.1353.0		304	29.502.9353.0	KL 24 / 3 SL	265
25.881.3253.0 25.881.3353.0	8413 BFK / 2 TOP K F OB 8413 BFK / 3 TOP K F OB	294 294	27.354.1453.0 27.354.1553.0		304 304	29.502.9553.0 29.608.0153.0	KL 24 / 5 SL KL17 N/ 1 /S6,3	265 267
25.881.3453.0	8413 BFK / 4 TOP K F OB	294	27.354.1653.0		304	29.608.0253.0	KL17 N/ 2 /S6,3	267
25.881.3553.0	8413 BFK / 5 TOP K F OB	294	27.356.0253.0		304	29.608.0353.0	KL17 N/ 3 /S6,3	267
25.881.3653.0 25.881.3753.0	8413 BFK / 6 TOP K F OB 8413 BFK / 7 TOP K F OB	294 294	27.356.0353.0 27.356.0453.0		304 304	29.608.0453.0 29.608.0553.0	KL17 N/ 4 /S6,3 KL17 N/ 5 S6,3	267 267
25.881.3853.0	8413 BFK / 8 TOP K F OB	294	27.356.0553.0	8213 SEG/ 5/10 W OB	304	29.608.0653.0	KL17 N/ 6 /S6,3	267
25.881.3953.0	8413 BFK / 9 TOP K F OB	294 294	27.356.0653.0		304 304	29.608.0753.0	KL17 N/ 7 /S6,3 KL17 N/ 8 /S6,3	267 267
25.881.4053.0 25.881.4153.0	8413 BFK /10 TOP K F OB 8413 BFK /11 TOP K F OB	294 294	27.356.0753.0 27.356.0853.0		304 304	29.608.0853.0 29.608.0953.0	KL17 N/ 9 /S6,3	267 267
25.881.4253.0	8413 BFK /12 TOP K F OB	294	27.356.0953.0		304	29.608.1053.0	KL17 N/10 /S6,3	267
26.500.2053.0 26.500.2153.0	RV2 S/6 RV2 S/3 L	206 206	27.356.1053.0 27.356.1153.0	8213 SEG/10/20 W OB	304 304	29.608.1153.0 29.608.1253.0	KL17 N/11 /S6,3 KL17 N/12 /S6,3	267 267
26.500.2153.0	RV2 S/3 TP1	207	27.356.1253.0		304	29.608.1353.0	KL17 N/12 /30,3 KL17 N/13 /S6,3	267
26.500.2353.0	RV2 S/4 BLAU	206	27.356.1353.0		304	29.608.1453.0	KL17 N/14 /S6,3	267
26.500.2453.0 26.500.2553.0	RV2 S/2 L BLAU RV2 S/2 TP1 BLAU	206 207	27.356.1453.0 27.356.1553.0		304 304	29.608.1553.0 29.608.1653.0	KL17N/15 /S6,3 KL17 N/16 /S6,3	267 267
26.500.4053.0	RV2 A/6	208	27.356.1653.0		304	29.608.1753.0	KL17 N/17 /S6,3	267
26.500.4153.0 26.500.4253.0	RV2 A/3 L RV2 A/3 TP1	208 209	27.703.0253.0 27.703.0353.0	8486 / 3 TOP V OB	■ 356 ■ 356	29.608.1853.0 29.608.1953.0	KL17 N/18 /S6,3 KL17 N/19 /S6,3	267 267
26.500.4253.0	RV2 A/3 TPT RV2 A/4 BLAU	208	27.703.0353.0	8486 / 4 TOP V OB	■ 356 ■ 356	29.608.1953.0	KL17 N/19 /S6,3 KL17 N/20 /S6,3	267
26.500.4453.0	RV A/2 L BLAU	208	27.713.0253.0		356	29.608.2153.0	KL17 N/21 /S6,3	267
26.500.4553.0 27.000.0253.0	RV2 A/2 TP1 BLAU 8292 H / 2 OB	209 341	27.713.0353.0 27.713.0453.0	8486 / 3 TOP H OB 8486 / 4 TOP H OB	■ 356 ■ 356	29.608.2253.0 29.608.2353.0	KL17 N/22 /S6,3 KL17 N/23 /S6,3	267 267
27.000.0253.0	8292 H / 3 OB	341	27.713.0453.0	UTUU / 4 IUI II UD	355	29.608.2353.0	KL17 N/23 /S6,3 KL17 N/24 /S6,3	267
27.000.2253.0	8292 EH / 2 OB	340	27.714.0353.0	7386 / 3 TOP H OB	355	29.608.3153.0	KL17 N/ 1 K/S6,3	267
27.000.2353.0 27.000.4253.0	8292 EH / 3 OB 8292 DH / 2 OB	■ 340 ■ 340	27.714.0453.0 27.714.0553.0		■ 355 ■ 355	29.608.3253.0 29.608.3353.0	KL17 N/ 2 K/S6,3 KL17 N/ 3 K/S6,3	267 267
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Part no.	Туре	section / page	Part no.	Type	section / page	Part no.	Туре	section / page
29.608.3453.0	KL17 N/ 4 K/S6,3	267	56.035.9053.0	9700 A / 16 SL 2 S35	189	56.703.2053.6	WKF 2,5/D2/ 35/8113 BL	36
29.608.3553.0 29.608.3653.0	KL17 N/ 5 K/S6,3 KL17 N/ 6 K/S6,3	267 267	56.035.9453.0 56.106.0053.0	9700 A / 16 PEN2 S35	195 149	56.703.2053.6 56.703.5053.0	WKF 2,5/D2/ 35/8113 BL WKF 2,5/D1/2/35	308 19
29.608.3753.0	KL17 N/ 7 K/S6,3	267	56.106.0553.0		148	56.703.5053.6	WKF 2,5/D1/2/35 BLAU	19
29.608.3853.0 29.608.3953.0	KL17 N/ 8 K/S6,3 KL17 N/ 9 K/S6,3	267 267	56.106.0653.0 56.301.0053.0	WKC 1 /35	148 231	56.703.5153.0 56.703.5153.6	WKF 2,5/D2/2/35 WKF 2,5/D2/2/35 BLAU	19 19
29.608.4053.0	KL17 N/10 K/S6,3	267	56.301.0053.6	WKC 1 /35 BLAU	231	56.703.5153.0	WKF 2,5 / D / D / 35	27
29.608.4153.0	KL17 N/11 K/S6,3	267	56.301.2053.0	WKC 1 TKM/35	231	56.703.9053.0	WKF 2,5 SL / 35	19
29.608.4253.0 29.608.4353.0	KL17 N/12 K/S6,3 KL17 N/13 K/S6,3	267 267	56.301.2053.6 56.301.4053.0	WKC 1 TKM/35 BLAU WKC 1 TKG/35	240 231	56.703.9153.0 56.703.9253.0	WKF 2,5 / D 2/2 / SL/35 WKF 2,5 / D2/SL35/8113	19 36
29.608.4453.0	KL17 N/14 K/S6,3	267	56.301.5053.0	WKC 1 D1/2/35	231	56.703.9253.0	WKF 2,5 / D2/SL35/8113	308
29.608.4553.0	KL17 N/15 K/S6,3	267	56.301.5053.6	WKC 1 D1/2/35 BLAU WKC 1 D2/2/35	234	56.703.9353.0	WKF 2,5 / D 1/2 /SL/35	28
29.608.4653.0 29.608.4753.0	KL17 N/16 K/S6,3	267 267	56.301.5153.0 56.301.5153.6	WKC 1 D2/2/35 WKC 1 D2/2/35 BLAU	231 236	56.703.9453.0 56.703.9553.0	WKIF 2,5 N-D-SL WKIF 2,5 NT-D-SL	55 55
29.608.4853.0		267	56.301.7053.0	WKC 1 E/35	231	56.703.9653.0	WKIF 2,5 D	58
29.608.4953.0 29.608.5053.0	KL17 N/20 K/S6,3	267 267	56.301.7053.6 56.301.9053.0	WKC 1 SL/35	238 231	56.703.9753.0 56.703.9853.0	WKIF 2,5 D-D WKIF 2,5 D-D-SL	55 55
29.608.5153.0	KL17 N/20 K/30,3	267	56.301.9153.0	WKC 1 /D2/2/SL/35	231	56.704.0053.0	WKF 4 / 35	19
29.608.5253.0		267	56.301.9353.0	WKC 1 D1/2/SL/35	235	56.704.0053.6	WKF 4 / 35 BLAU	19
29.608.5353.0 29.608.5453.0		267 267	56.303.0053.0 56.303.0053.6	WKC 2,5 /35 WKC 2,5 /35 BLAU	231 231	56.704.2053.0 56.704.4053.0	WKF 4 TKM / 35 WKF 4 TKG / 35	39 38
30.400.0675.0	1038 A	263	56.303.2053.0	WKC 2,5 755 BLAG WKC 2,5 TKM/35	231	56.704.5053.0	WKF 4/D1/2/35	27
30.400.1075.0	1038 B	263	56.303.2053.6	WKC 2,5 TKM/35 BLAU	240	56.704.5053.6	WKF 4/D1/2/35 BLAU	27
30.400.1675.0 30.401.0475.0	1038 C 1038 A DS	263 263	56.303.4053.0 56.303.5053.0	WKC 2,5 TKG/35 WKC 2,5 D1/2/35	231 231	56.704.6953.1 56.704.7053.0	ETAGENKLEMME WKF 4 E/35	30
30.401.0475.0	1038 B DS	263	56.303.5053.6	WKC 2,5 D1/2/35 WKC 2,5 D1/2/35 BLAU	234	56.704.7053.0	VVNF 4 E/33	32
30.401.1075.0	1038 C DS	263	56.303.5153.0	WKC 2,5 D2/2/35	231	56.704.7153.9		32
30.494.0010.0 30.494.0010.6	WAK4/1 WAK4/1 BL	216 216	56.303.5153.6 56.303.7053.0	WKC 2,5 D2/2/35 BLAU WKC 2,5 E/35	236 231	56.704.7253.5 56.704.7353.5		32 32
30.494.0010.6	WAK4/1 GN	216 216	56.303.7053.0	VVNG 2,3 E/33	231	56.704.7453.9		32
30.494.0110.0	WAK4/3	216	56.303.7153.5	WKC 2,5 E/35/1D/2G ROT	239	56.704.7553.5		32
30.494.0110.6	WAK4/3 BL	216 216	56.303.7153.9	WKC2,5E/35/1D/2G ORANGE	239	56.704.7553.9		32 32
30.494.0110.7 30.494.1010.0	WAK4/3 GN WAK16/1	216	56.303.7253.5 56.303.7353.5		239	56.704.7953.5 56.704.8053.9		32
30.494.1010.6	WAK16/1 BL	216	56.303.7453.9		239	56.704.8153.0	WKF 4 NT / 35	24
30.494.1010.7	WAK16/1 GN	216	56.303.7553.5	WKC 2,5 E/35 ROT	239	56.704.8253.5		32
30.494.1110.0 30.494.1110.6	WAK25/3 WAK25/3 BL	216 193	56.303.7553.9 56.303.7953.5	WKC 2,5 E/35 ORANGE WKC 2,5 E/35 G2	239 239	56.704.8353.5 56.704.9053.0	WKF 4 SL / 35/V0	32 19
30.494.1110.7	WAK25/3 GN	216	56.303.8053.9		239	56.704.9253.0	WKF 4 E/SL/35	31
30.494.2510.0	WAK35/3	216	56.303.8253.5	WKC 2,5 E/35 GO	239 239	56.704.9353.0	WKF 4/D1/2/SL/35	29 31
30.494.2510.6 30.494.2510.7	WAK35/3 BL WAK35/3 GN	193 216	56.303.8353.5 56.303.9053.0	WKC 2,5 E/35 G-URL WKC 2,5 SL/35	239	56.704.9953.0 56.704.XX53.5		32
30.494.3021.0		80	56.303.9153.0	WKC 2,5 D2/2/SL/35	231	56.704.XX53.9		32
30.494.3021.6 30.494.4021.6	WAK16/2 BL/V0	24 107	56.303.9353.0	WKC 2,5 D1/2/SL/35	235 239	56.706.0053.0 56.706.0053.6	WKF 6/35 WKF 6/35 BLAU	21 21
30.494.4121.0	WAK35/2 BL/V0 WAK35/2 BLANK	24	56.303.xx53.5 56.303.xx53.9		239	56.706.9053.0	WKF 6SL/35	23
30.494.4121.6		81	56.351.0153.0		246	56.710.0053.0	WKF 10/35	21
30.494.4210.0		213 154	56.351.0153.6		246 247	56.710.0053.6 56.710.9053.0	WKF 10/35 BLAU WKF 10SL/35	21 23
32.530.0053.0 32.540.0053.0		154	56.351.9053.0 56.353.0153.0		246	56.716.0053.0	WKF 16/35	23
32.550.0053.0		155	56.353.0153.6		246	56.716.0053.6	WKF 16/35 BLAU	21
32.560.0053.0 32.630.0042.0	BK M 6 / 32	155 152	56.353.9053.0	RFK 1 / 95 F S35/V0	247 156	56.716.1153.0 56.716.1153.6	WKIF 16/35 GRAU	25 25
32.640.0042.0	BK M 8 / 32	152 152	56.395.0055.0 56.395.0155.0	RFK 1 / 95 K S35/V0	156 156	56.716.8153.0	WKIF 16/35 BLAU WKIF 16 NT/35	25
32.650.0042.0	BK M 10 / 32	153	56.395.0255.0	RFK 1 / 95 FK S35/V0	156	56.716.9053.0	WKF 16SL/35	23
33.011.0653.0 33.041.0653.0	KL 28 / 6 DS PA KL 29 / 6 DS PA	214 214	56.395.1055.0 56.395.1255.0	RFK 1 / 95 FM S35/V0 RFK 1 / 95 FMK S35/V0	156 156	56.716.9153.0 56.904.4055.0	WKIF 16 SL/35 9700 B/30 SI E14/S35/V0	25 128
37.702.7453.0	WKF 1.5 KOI 3L	44	56.397.0155.0	111 K 1 / 33 1 WIK 333/ VU	157	56.925.4055.0	9700 B/30 SI E18/S35/V0	128
37.702.7553.0	WKF 1.5 KOI 3L/SL	44	56.397.0255.0		157	57.007.0053.0	SSW-V.24//TTY	553
37.702.7653.0 37.702.7753.0	WKF 1.5 KOA 2L/SL WKF 1.5 KOE	45 45	56.397.1255.0 56.398.0055.0	RFK 1 / 150 FMK S35/V0 RFK 1 / 185 F S35/V0	157 158	57.007.0153.0 57.007.0253.0	SSW-V.24//RS422 SSW-V.24//RS485	553 554
37.702.7753.0	WKF 1.5 KOL WKF 1.5 KOI 3L-PGE	44	56.398.1055.0	RFK 1 / 185 FM S35/V0	158	57.110.1555.0	9760 U/8 TKE 220 V/V0	133
37.702.8553.0	WKF 1.5 KOI 3L/SL-PGE	44	56.399.0055.0	RFK 1 / 240 F S35/V0	159	57.110.1655.0	9760 U/8 TKE 48 V/V0	133
37.702.8653.0 37.702.8753.0	WKF 1.5 KOA 2L/SL-PGE WKF 1.5 KOE-PGN	45 45	56.399.0155.0 56.399.0255.0	RFK 1 / 240 K S35/V0 RFK 1 / 240 FK S35/V0	159 159	57.403.6955.1 57.403.7055.0	WKN2,5E / U VB SW/V0 WKN2,5E / U V0	116 116
54.003.7553.0	9700 A / 5 S35	189	56.399.1055.0	RFK 1 / 240 FM S35/V0	159	57.404.6255.9	WK 4 E/U LED+PO 24LD/V0	
54.003.7553.6	9700 A / 5 S35 BLAU	189	56.399.1255.0	RFK 1 / 240 FMK S35/V0	159	57.404.6955.1	WK 4E/UVB SW/V0	114
54.004.7553.0 54.004.7553.6	9700 A / 6 S35 9700 A / 6 S35 BLAU	189 190	56.404.8855.0 56.404.9155.0	WKI 4 TKG-D-SL /V0 WKI 4 NTN-D-SL /V0	74 74	57.404.7055.0 57.404.7255.5	WK 4E/U /V0 WK 4 E/U LD +P 0 24/V0	114 115
54.004.7753.0	9700 A / 6 ETK S35	189	56.404.9255.0	WKI 4 NT -D-SL GL/V0	73	57.404.7455.9	WK 4 E/U LD -P 0 24/V0	115
54.010.7553.0	9700 A / 8 S35	189	56.404.9455.0	WKI 4 N-D-SL /V0	69	57.404.7955.5	WK 4 E / U G2/V0	115
54.010.7553.6 54.010.7753.0	9700 A / 8 S35 BLAU 9700 A / 8 ETK S35	191 189	56.404.9555.0 56.404.9655.0	WKI 4 NT -D-SL /V0 WKI 4 DU /V0	69 72	57.404.8055.9 57.404.8155.9	WK 4 E / U G-ULR/V0 WK 4 E / U GU/V0	115 115
54.016.7553.0	9700 A / 10 S35	189	56.404.9755.0	WKI 4 D-D /V0	69	57.404.8255.5	WK 4E/U GO/V0	115
54.016.7553.6	9700 A / 10 S35 BLAU	191	56.404.9855.0	WKI 4 D-D-SL /V0	69	57.404.8355.5	WK 4 E / U G-URL/V0	115
54.016.7753.0 54.025.7553.0	9700 A / 10 ETK S35 9700 A / 12 S35	189 191	56.503.7355.0 56.503.7455.0	WK 2,5-4 KI SL /V0 WK 2,5-4 KI SL-NGN /V0	119 119	57.404.8455.5 57.404.8755.5	WK 4 E / U LD 42V/V0 WK 4 E/U LDG +P 0 24/V0	115 115
54.025.7553.6	9700 A / 12 S35 BLAU	191	56.503.7555.0	WK 2,5-4 KI SL-PGN /V0	119	57.404.8855.9	WK 4 E / U G2/1/V0	115
54.035.7553.0	9700 A / 16 S35	189	56.503.7655.0	WK 2,5-4 KI SL-PRT /V0	119	57.404.XX55.5		115
54.035.7553.6 54.904.4055.0	9700 A / 16 S35 BLAU 9700 B/30 SI E14/S32/V0	189 129	56.503.8355.0 56.503.8455.0	WK 2,5-3 D SL /V0 WK 2,5-3 D SL-NGN /V0	119 119	57.404.XX55.9 57.503.0055.0	WK 2,5 / U /V0	115 101
54.925.4055.0	9700 B/30 SI E18/S32/V0	129	56.503.8555.0	WK 2,5-3 D SL-PGN /V0	119	57.503.0055.6	WK 2,5 / U BL / V0	102
55.503.1053.0	WKM 2,5 / 15/V0	145	56.510.9255.0	WKI 10 SL / 35/V0	82	57.503.2055.0	WK 2,5U/8113S/H/V0	137
55.503.1053.6 55.503.1253.0	WKM 2,5 / 15 BLAU/V0 WKM 2,5 F1 / 15/V0	145 144	56.510.9455.0 56.516.9255.0	WKI 10 PEN/35/V0 WKI 16 SL / 35/V0	84 69	57.503.2055.0 57.503.2155.0	WK 2,5U/8113S/H/V0 WK2,5U/D/8113S/V/V0	311 134
55.503.1353.0	WKM 2,5 F2 / 15/V0	144	56.516.9455.0	WKI 16 PEN/35/V0	84	57.503.2155.0	WK2,5U/D/8113S/V/V0	312
55.504.1053.0	WKM 4 / 15/V0	145	56.535.9255.0	WKI 35 SL / 35/V0	83	57.503.2255.0	WK2,5U/D/8113S/V/LD25V	
55.504.1053.6 55.504.9153.0	WKM 4 / 15 BLAU/V0 WKM 4 SL / 15/V0	145 145	56.535.9455.0 56.702.2053.0	WKI 35 PEN/35/V0 WKF 1,5E/8113/35	85 37	57.503.2255.0 57.503.2355.0	WK2,5U/D/8113S/V/LD25V0 WK2,5U/D/8113S/V/LD50V0	
55.703.0053.0	VVINIVI T JL / IJ/VU	40	56.702.2053.0	WKF 1,5E/8113/35	309	57.503.2355.0	WK2,5U/D/8113S/V/LD50V	
55.703.0053.6		40	56.702.7053.0	WKF 1,5 E / 35	33	57.503.2555.6	WK2,5U/D/8113S/V/VK/V0	135
55.703.9053.0 56.004.9053.0	9700 A / 6 SL 2 S35	40 189	56.703.0053.0 56.703.0053.6	WKF 2,5 / 35 WKF 2,5 / 35 BLAU	19 19	57.503.2555.6 57.503.2655.0	WK2,5U/D/8113S/V/VK/V0 WK2,5U / 8113S/V /V0	313 136
56.010.9053.0	9700 A / 8 SL 2 S35	189	56.703.2053.0	WKF 2,5/D2 35/8113	36	57.503.2655.6		310
56.016.9053.0	9700 A / 10 SL 2 S35	189	56.703.2053.0	WKF 2,5/D2 35/8113	308	57.503.2755.0	WK2,5U/8113S/V/LED25/V0	136

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57.503.2755.0	WK2,5U/8113S/V/LED25/V0	3 10	57.806.0253.0	AKB 20MA / 10 V	504	69.920.1153.0		4 7
57.503.2855.0	WK2,5U/8113S/V/LED50/V0	137	57.806.0353.0	AKB 4-20MA / 10 V	504	70.000.0653.0	KL.ADA. BU. 6WL	689
57.503.2855.0 57.503.3055.6	WK2,5U/8113S/V/LED50/V0 WK2,5U/8113S/V/VK/V0	311 137	57.806.0653.0 57.806.0753.0	AKT 10 V / 20MA AKT 20MA / 10 V	505 505	70.005.0653.0 70.010.0653.0	KL.ADA. BU. 6WR KL.ADA. ST. 6WL	■ 689 ■ 689
57.503.3055.6	WK2,5U/8113S/V/VK/V0	311	57.806.0853.0	AKT 4-20MA / 10 V	505	70.015.0653.0	KL.ADA. ST. 6WR	689
57.503.7055.0	WK 2,5-4 KOI /U /V0	120	57.806.0953.0	AKT 10 V /4-20MA	505	70.060.1628.0	DATENEINF.OT. 16P	755
57.503.7155.0 57.503.7255.0	WK 2,5-4 KOI /U-NGN /V0 WK 2,5-4 KOI /U-PGN /V0	120 121	57.806.1053.0 57.806.1153.0	AKT +- 10 V /+-10 V AKT 20MA / 20MA	505 505	70.100.0653.3 70.100.0653.4	KL.ADA. BU. 6WL KL.ADA. BU. 6WL	631 631
57.503.7855.0	WK 2,5-4 KI/U /V0	118	57.806.1253.0	AKT 20MA /4-20MA	505	70.100.1053.3	KL.ADA. BU.10WL	631
57.503.7955.0	WK 2,5-4 KI/U-NGN /V0	118	57.806.1353.0	AKT 4-20MA / 20MA	505	70.100.1053.4	KLADA. BU.10WL	631
57.503.8055.0 57.503.8855.0	WK2,5-4 KI/U-PGN /V0 WK 2,5-3 D/U /V0	118 118	57.806.1553.0 57.806.2153.0	AKB 10 V /4-20MA AKT -+ 10 V /4-20MA	504 505	70.100.1653.3 70.100.1653.4	KL.ADA. BU.16WL KL.ADA. BU.16WL	■ 631 ■ 631
57.503.8955.0	WK 2,5-3 D/U-NGN /V0	118	57.806.2253.0	AKT -+ 10 V /0-10 V	505	70.100.2453.3	KL.ADA. BU.24WL	631
57.503.9055.0 57.504.0055.0	WK 2,5-3 D/U-PGN /V0 WK 4 / U /V0	118 69	57.806.2653.0 57.806.2753.0	AKT 0-10 V /-+10 V AKT 0-20MA /-+10 V	505 505	70.100.2453.4 70.101.0653.0	KL.ADA. BU.24WL KL.ADA. BUF 6WL	■ 631 ■ 631
57.504.0055.6	WK 4/UBL/V0	69	57.806.5553.0	AKT 4-20MA /-+10 V	505	70.101.1053.0	KL.ADA. BUF10WL	631
57.504.1055.0	WK 4 / U F1/V0	142 142	57.806.5653.0	070ELL/10 OLIMA/0	505	70.101.1653.0 70.101.2453.0	KL.ADA. BUF16WL	631 631
57.504.1155.0 57.504.1655.0	WK 4 / U F2/V0 WK 4 SI-D/U 5 X25/V0	126	57.904.0055.0 57.904.0155.0	9785U/10 OHM/V0 9785U/20 OHM/V0	130 130	70.101.2453.0	KL.ADA. BUF24WL KL.ADA. BU.6WR	■ 631 ■ 631
57.504.1755.0	WK 4 SI-D/U 5 X20/V0	126	57.904.0255.0	9785U/50 OHM/V0	130	70.105.0653.4	KL.ADA. BU. 6WR	631
57.504.2055.0 57.504.2055.6	WK 4 TKM/U /V0 WK 4 TKM/U BL /V0	101 123	57.904.0355.0 57.904.0455.0	9785U/100 OHM/V0 9785U/200 OHM/V0	130 130	70.105.1053.3 70.105.1053.4	KL.ADA. BU.10WR KL.ADA. BU.10WR	631 631
57.504.2355.0	WK 4 TKM P3/U /V0	123	57.904.0555.0	9785U/500 OHM/V0	130	70.105.1653.3	KL.ADA. BU.16WR	631
57.504.2755.0 57.504.2855.0	WK 43-6 S1K/IW/U/V0 WK 45S2,81K/IW/U/V0	139 139	57.904.0655.0 57.904.0755.0	9785U/1 KOHM/V0 9785U/2 KOHM/V0	130 130	70.105.1653.4 70.105.2453.3	KL.ADA. BU.16WR KL.ADA. BU.24WR	■ 631 ■ 631
57.504.2655.0	WK / 5-10S / U/V0	139	57.904.0855.0	9785U/5 KOHM/V0	130	70.105.2453.4	KL.ADA. BU.24WR	631
57.504.3755.0	WK 43-6 S 1K / U / V0	138	57.904.0955.0	9785U/10 KOHM/V0	130	70.106.0653.0	KL.ADA. BUF 6WR	631
57.504.3855.0 57.504.4055.0	WK 4 5S2,8 1K / U/V0 WK 4 TKG/U /V0	138 101	57.904.1055.0 57.904.1155.0	9785U/20 KOHM/V0 9785U/50 KOHM/V0	130 130	70.106.1053.0 70.106.1653.0	KL.ADA. BUF10WR KL.ADA. BUF16WR	631 631
57.504.4455.0	WK 4 TKS D / U VO	123	57.904.2055.0	9786U/12/V0	131	70.106.2453.0	KL.ADA. BUF24WR	631
57.504.4555.0 57.504.4855.0	WK 4 TKG-TRST / U/V0 WK 4 TKG-TRST P3/ U/V0	123 123	57.904.3955.0 57.904.4155.0	9785U/10 OHM-SPT/V0 9785U/20 OHM-SPT/V0	130 130	70.110.0653.3 70.110.0653.4	KL.ADA. ST. 6WL KL.ADA. ST. 6WL	631 631
57.504.5055.0	WK 4/D1/2U/V0	112	57.904.4255.0	9785U/50 OHM-SPT/V0	130	70.110.1053.3	KL.ADA. ST.10WL	631
57.504.5055.6	WK 4 / D 1/2 U/V0 BLAU	112	57.904.4355.0	9785U/100 OHM-SPT/V0	130	70.110.1053.4	KL.ADA. ST.10WL	631
57.504.5155.0 57.504.5155.6	WK 4/D2/2U/V0 WK 4/D2/2U BL/V0	112 112	57.904.4455.0 57.904.4555.0	9785U/200 OHM-SPT/V0 9785U/500 OHM-SPT/V0	130 130	70.110.1653.3 70.110.1653.4	KL.ADA. ST.16WL KL.ADA. ST.16WL	■ 631 ■ 631
57.504.5255.0	WK 4/D E U/V0	113	57.904.4655.0	9785U/1 KOHM-SPT/V0	130	70.110.2453.3	KL.ADA. ST.24WL	631
57.504.6255.0 57.504.6355.0	WK / 4-8S / U/V0 WK / 4-8S / IW / U/V0	141 141	57.904.4755.0 57.904.4855.0	9785U/2 KOHM-SPT/V0 9785U/5 KOHM-SPT/V0	130 130	70.110.2453.4 70.111.0653.0	KL.ADA. ST.24WL KL.ADA. STF 6WL	631 631
57.504.6655.0	WK / 3-6S / U/V0	140	57.904.4955.0	9785U/10 KOHM-SPT/V0	130	70.111.1053.0	KL.ADA. STF10WL	631
57.504.6755.0	WK / 3-6S / IW / U/V0	140	57.904.5055.0	9785U/20 KOHM-SPT/V0	130	70.111.1653.0	KL.ADA. STF10WL	631
57.504.7355.0 57.504.8155.0	WK 4 / 3-6S KO/U/V0 WKN 4ETK/U/V0	141 69	57.904.5155.0 57.904.5355.0	9785U/50 KOHM-SPT/V0 WK 4 / THSI5 U/V0	130 124	70.111.2453.0 70.115.0653.3	KL.ADA. STF24WL KL.ADA. ST. 6WR	631 631
57.504.9055.0	WK 4 SL / U /V0	69	57.904.5455.0	WK 4/THSI 5 LED 12U /V0	124	70.115.0653.4	KL.ADA. ST. 6WR	631
57.504.9155.0 57.504.9255.0	WK 4/D2/2SLU /V0 WK 4E SL/U /V0	113 115	57.904.5555.0 57.904.5655.0	WK 4/THSI 5 LED 24U /V0 WK 4/THSI 5 LED 60U /V0	124 124	70.115.1053.3 70.115.1053.4	KL.ADA. ST.10WR KL.ADA. ST.10WR	631 631
57.506.0055.0	WK 6 / U /V0	101	57.904.5755.0	WK 4/THSI 5 GL 250U /V0	124	70.115.1653.4	KL.ADA. ST.16WR	631
57.506.0055.6	WK 6 / U BL / V0	101	57.904.5855.0	WK 4/THSI 5 GL 500U /V0	124	70.115.1653.4	KLADA. ST.16WR	631
57.506.9055.0 57.510.0155.0	WK 6 SL / U /V0 WKN 10/U /V0	101	57.904.6355.0 57.904.6455.0	WK 4/THSI6,3 U /V0 WK 4/THSI6,3 LED 12U/V0	124 124	70.115.2453.3 70.115.2453.4	KL.ADA. ST.24WR KL.ADA. ST.24WR	631 631
57.510.0155.6	WKN10 / U BL / V0	101	57.904.6555.0	WK 4/THSI6,3 LED 24U/V0	124	70.116.0653.0	KL.ADA. STF 6WR	631
57.510.1155.0 57.510.1155.6	WKI 10 / U/V0 WKI 10 / U BLAU/V0	78 78	57.904.6655.0 57.904.6755.0	WK 4/THSI6,3 LED 60U/V0 WK 4/THSI6,3 GL 250U/V0	124 124	70.116.1053.0 70.116.1653.0	KL.ADA. STF10WR KL.ADA. STF16WR	631 631
57.510.8155.0	WKN 10ETK/U/V0	106	57.904.6855.0	WK 4/THSI6,3 GL 500U/V0	124	70.116.2453.0	KL.ADA. STF24WR	631
57.510.8255.0 57.510.9055.0	WKI 10 ETK/U/V0 WKN10 SL/U /V0	80 101	57.904.7055.0 57.904.7155.0	9786U/TSK NICR-CUNI/VO 9786U/TSK FE-CUNI/VO	132 132	70.120.0353.3 70.120.0353.4	KL.ADA. BU. 3WL KL.ADA. BU. 3WL	643 643
57.516.0155.0	WKN16 / U /V0	104	57.904.7255.0	9786U/TSK NICR-NI/V0	132	70.120.0653.3	KL.ADA. BU. 6WL	643
57.516.0155.6	WKN16 / U BL / V0	104	57.904.7355.0	9786U/TSK CU-CUNI/VO	132	70.120.0653.4	KL.ADA. BU. 6WL	643
57.516.1155.0 57.516.1155.6	WKI 16 / U/V0 WKI 16 / U BLAU/V0	69 69	57.904.7455.0 57.910.4955.0	9786U/TSK E-CU-A-CU/V0 WK 10/SI U D/V0	132 125	70.120.1053.3 70.120.1053.4	KL.ADA. BU.10WL KL.ADA. BU.10WL	643 643
57.516.8155.0	WKN 16ETK/U/V0	107	57.910.5055.0	WK 10/SI U 5 X 20 /V0	101	70.121.0353.0	KL.ADAP.BUF 3P WL	643
57.516.8255.0 57.516.9055.0	WKI 16 ETK/U/V0 WKN16 SL/U /V0	69 109	57.910.5155.0 57.910.5255.0	WK 10/SI U 5 X 25 /V0 WK 10/SI U 5 X 30 /V0	125 125	70.121.0653.0 70.121.1053.0	KL.ADAP.BUF 6P WL KL.ADAP.BUF10P WL	643 643
57.535.0155.0	WKN35 / U /V0	101	57.910.5355.0	WK 10/SI U 6,3 X 32 /V0	125	70.125.0353.3	KL.ADA. BU. 3WR	643
57.535.0155.6 57.535.1155.0	WKN35 / U BL / V0 WKI 35 / U/V0	101 79	57.910.5455.0 57.910.5755.0	WK 10/SI U 5X20M.NGL/VI WK 10/SIU6,3X32M.NGL/V		70.125.0353.4 70.125.0653.3	KL.ADA. BU. 3WR KL.ADA. BU. 6WR	643 643
57.535.1155.6	WKI 35 / U BLAU/V0	79	57.910.5855.0	WK 10/SI U 5X20M.GLB/V0		70.125.0653.4	KL.ADA. BU. 6WR	643
57.535.9055.0 57.570.0155.0	WKN35 SL/U / V0 WKN70 / U /V0	101 105	57.910.6155.0 59.195.0055.0	WK 10/SIU6,3X32M.GLB/VI RFK 1 / 95 F PA/V0	125 156	70.125.1053.3 70.125.1053.4	KL.ADA. BU.10WR KL.ADA. BU.10WR	643 643
57.570.0155.6	WKN70 / U BL / V0	105	59.195.0055.0	RFK 1 / 95 K PA/V0	156	70.126.0353.0	KL.ADAP.BUF 3P WR	643
57.570.9055.0	WKN 70 SL/U	110	59.195.0255.0	RFK 1 / 95 FK PA/V0	156	70.126.0653.0	KL.ADAP.BUF 6P WR	643
57.597.0155.0 57.597.0155.6	WKN150 / U /V0 WKN150/ U BL / V0	105 105	59.195.1055.0 59.195.1255.0	RFK 1 / 95 FM PA/V0 RFK 1 / 95 FMK PA/V0	156 156	70.126.1053.0 70.130.0353.3	KL.ADAP.BUF10P WR KL.ADA. ST. 3WL	643 643
57.603.0055.0	WKB 2,5 / U/V0	204	59.197.0155.0	RFK 1 / 150 K PA/V0	157	70.130.0353.4	KL.ADA. ST. 3WL	643
57.603.3555.0 57.800.0053.0	WKB 2,5 / B / U/V0 24 V 1 SCHLIESSER	205 448	59.197.0255.0 59.197.1255.0	RFK 1 / 150 FK PA/V0 RFK 1 / 150 FMK PA/V0	157 157	70.130.0653.3 70.130.0653.4	KL.ADA. ST. 6WL KL.ADA. ST. 6WL	643 643
57.800.0353.0	220 V AC 1 SCHLIESSER	450	59.198.0055.0	RFK 1 / 185 F PA/V0	158	70.130.1053.3	KL.ADA. ST.10WL	643
57.800.5053.0	24/48V 1 UMSCHALTER	448	59.198.1055.0	RFK 1 / 185 FM PA/V0	158	70.130.1053.4	KL.ADA. ST.10WL	643
57.800.5153.0 57.800.7053.0	110/220V 1 UMSCHALTER 24 V 2 UMSCHALTER	450 449	59.199.0055.0 59.199.0155.0	RFK 1 / 240 F PA/V0 RFK 1 / 240 K PA/V0	159 159	70.131.0353.0 70.131.0653.0	KL.ADAP.STF 3P WL KL.ADAP.STF 6P WL	643 643
57.801.0053.0	WEG LEERG. F. 4A	592	59.199.0255.0	RFK 1 / 240 FK PA/V0	159	70.131.1053.0	KL.ADAP.STF10P WL	643
57.801.5053.0 57.801.5153.0	WEG LEERG. F. 4A WEG LEERG. F. 6A	592 593	59.199.1055.0 59.199.1255.0	RFK 1 / 240 FM PA/V0 RFK 1 / 240 FMK PA/V0	159 159	70.135.0353.3 70.135.0353.4	KL.ADA. ST. 3WR KL.ADA. ST. 3WR	643 643
57.801.5253.0	WEG LEERG. F. 8A	593	59.900.2052.0	9290 L	220	70.135.0653.3	KL.ADA. ST. 6WR	643
57.802.1053.0 57.802.1153.0	UET +- 10 V UET-P +- 10 V	506 507	59.900.2053.6 59.900.2552.0	9290 L BLAU 9290 S	220 220	70.135.0653.4 70.135.1053.3	KL.ADA. ST. 6WR KL.ADA. ST.10WR	643 643
57.802.1153.0	UET-P +- 10 V	507	69.332.0000.0	TS M4 / M6-32	219	70.135.1053.3	KL.ADA. ST.10WR	643
57.802.1453.0	UET-P +- 199MV	507	69.335.0253.0	TS M3 S35	219	70.136.0353.0	KL.ADAP.STF 3P WR	643
57.802.2053.0 57.802.2153.0	UET/LCD +- 10 V UET-P/LCD +-10 V	506 507	69.335.0453.0 69.335.0553.0	TS M4 S35 TS M5 S35	219 219	70.136.0653.0 70.136.1053.0	KL.ADAP.BUF 3P WR KL.ADAP.BUF 3P WR	643 643
57.802.2253.0	UET/LCD +- 20 MA	506	69.335.0653.0	TS M6 S35	219	70.200.0653.0	BUCHSENEINSATZ	689
57.802.2353.0 57.802.3053.0	UET-P/LCD +-20MA SR 4-20 MA/UE 9,5-40VDC	507 452	69.700.0953.0 69.700.1853.0	VM WKF K09 VM WKF K018	45 45	70.210.0653.0 70.300.0640.0	STECKEREINSATZ BUCHSENEINSATZ	689 631
57.803.8053.0	KSQ 10 V	509	69.920.0553.0	300 / 9708 / 2 S35	47	70.300.1040.0	BUCHSENEINSATZ	631
57.806.0053.0	AKB 10 V / 20MA	504	69.920.1053.0	WEF 1 BS/35	47	70.300.1640.0	BUCHSENEINSATZ	631

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70.300.2440.0	BUCHSENEINSATZ	■ 631	70.341.1035.1	GEHAEUSEUNTERTEIL	■ 639	70.352.2428.7	GEHAEUSEOBERTEIL	773
70.300.3253.0	BUCHSENEINSATZ	631	70.341.1635.0	GEHAEUSEUNTERTEIL	639	70.352.2435.0	GEHAEUSEOBERTEIL	637
70.300.4840.0	BUCHSENEINSATZ	631	70.341.1635.1	GEHAEUSEUNTERTEIL	639	70.352.2435.1	GEHAEUSEOBERTEIL	637
70.301.0640.0	BU.EINSATZ VERGOL	631	70.341.2428.9	GEHAEUSEUNTERTEIL	771	70.352.2435.2	GEHAEUSEOBERTEIL	637
70.301.1040.0 70.301.1640.0	BU.EINSATZ VERGOL BU.EINSATZ VERGOL	631 631	70.341.2435.0 70.341.2435.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 639 ■ 639	70.352.2435.3 70.352.3235.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 637
70.301.1040.0	BU.EINSTAZ VERGOL	631	70.341.4828.9	GEHAEUSEUNTERTEIL	771	70.352.3235.0	GEHAEUSEOBERTEIL	637
70.310.0640.0	STECKEREINSATZ	631	70.341.4835.1	GEHAEUSEUNTERTEIL	635	70.352.3235.2	GEHAEUSEOBERTEIL	637
70.310.1040.0	STECKEREINSATZ	631	70.341.4835.3	GEHAEUSEUNTERTEIL	635	70.352.3235.3	GEHAEUSEOBERTEIL	637
70.310.1640.0	STECKEREINSATZ	631	70.342.0628.9	GEHAEUSEUNTERTEIL	771	70.352.4828.7	GEHAEUSEOBERTEIL	769
70.310.2440.0 70.310.3253.0	STECKEREINSATZ STECKEREINSATZ	631 631	70.342.0635.0 70.342.0635.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 635 ■ 635	70.352.4835.0 70.352.4835.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 633 ■ 633
70.310.4840.0	STECKEREINSATZ	631	70.342.1028.9	GEHAEUSEUNTERTEIL	771	70.352.4835.2	GEHAEUSEOBERTEIL	633
70.311.0640.0	ST.EINSATZ VERGOL	631	70.342.1035.0	GEHAEUSEUNTERTEIL	639	70.352.4835.3	GEHAEUSEOBERTEIL	633
70.311.1040.0	ST.EINSATZ VERGOL	631	70.342.1035.1	GEHAEUSEUNTERTEIL	639	70.353.0635.0	GEHAEUSEOBERTEIL	633
70.311.1640.0	ST.EINSATZ VERGOL	631	70.342.1635.0	GEHAEUSEUNTERTEIL	639	70.353.0635.1	GEHAEUSEOBERTEILE	633
70.311.2440.0 70.320.0628.0	ST.EINSATZ VERGOL GEHAEUSEUNTERTEIL	631 634	70.342.1635.1 70.342.2428.9	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 639 ■ 771	70.353.0635.2 70.353.0635.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 633 ■ 633
70.320.0628.9	GEHAEUSEUNTERTEIL	770	70.342.2435.0	GEHAEUSEUNTERTEIL	639	70.353.0635.3	GENALOGEOBEITTEIL	684
70.320.0638.0	GEH.UT. 6 POL.	684	70.342.2435.1	GEHAEUSEUNTERTEIL	639	70.353.1035.0	GEHAEUSEOBERTEIL	637
70.320.1028.0	GEHAEUSEUNTERTEIL	638	70.343.0628.9	GEHAEUSEUNTERTEIL	771	70.353.1035.1	GEHAEUSEOBERTEIL	637
70.320.1028.9	GEHAEUSEUNTERTEIL	770 684	70.343.0635.0	GEHAEUSEUNTERTEIL	■ 635 ■ 635	70.353.1035.2 70.353.1035.3	GEHAEUSEOBERTEIL	637
70.320.1038.0 70.320.1628.0	GEH.UT. 10 POL. GEHAEUSEUNTERTEIL	684 638	70.343.0635.1 70.343.1028.9	GEHAEUSEUNTERTEIL	635 771	70.353.1035.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 637
70.320.1628.9	GEHAEUSEUNTERTEIL	770	70.343.1035.0	GEHAEUSEUNTERTEIL	639	70.353.1635.1	GEHAEUSEOBERTEIL	637
70.320.1638.0	GEH.UT. 16 POL.	684	70.343.1035.1	GEHAEUSEUNTERTEIL	639	70.353.1635.2	GEHAEUSEOBERTEIL	637
70.320.2428.0	GEHAEUSEUNTERTEIL	638	70.343.1635.0	GEHAEUSEUNTERTEIL	639	70.353.1635.3	GEHAEUSEOBERTEIL	637
70.320.2428.9	GEHAEUSEUNTERTEIL	770	70.343.1635.1	GEHAEUSEUNTERTEIL	639	70.353.1645.1	CELIAFILEFORERTEII	684
70.320.2438.0 70.320.3228.0	GEH.UT. 24 POL. GEHAEUSEUNTERTEIL	684 638	70.343.2428.9 70.343.2435.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 771 ■ 639	70.353.2435.0 70.353.2435.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 637
70.320.4828.0	GEHAEUSEUNTERTEIL	634	70.343.2435.1	GEHAEUSEUNTERTEIL	639	70.353.2435.2	GEHAEUSEOBERTEIL	637
70.320.4828.9	GEHAEUSEUNTERTEIL	770	70.344.4828.9	GEHAEUSEUNTERTEIL	771	70.353.2435.3	GEHAEUSEOBERTEIL	637
70.325.0628.0	GEHAEUSEUNTERTEIL	635	70.344.4835.1	GEHAEUSEUNTERTEIL	635	70.353.2445.1		684
70.325.0628.9	GEHAEUSEUNTERTEIL	771	70.350.0628.7	GEHAEUSEOBERTEIL	769	70.353.3235.1	GEHAEUSEOBERTEIL	637
70.325.1028.0 70.325.1028.9	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	639 771	70.350.0635.0 70.350.0635.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 633 ■ 633	70.353.3235.2 70.353.4828.7	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 769
70.325.1628.0	GEHAEUSEUNTERTEIL	639	70.350.0635.1	GEHAEUSEOBERTEIL	633	70.353.4835.1	GEHAEUSEOBERTEIL	633
70.325.1628.9	GEHAEUSEUNTERTEIL	771	70.350.0635.3	GEHAEUSEOBERTEIL	633	70.353.4835.2	GEHAEUSEOBERTEIL	633
70.325.2428.0	GEHAEUSEUNTERTEIL	639	70.350.0645.1		684	70.354.0628.7	GEHAEUSEOBERTEIL	769
70.325.2428.9	GEHAEUSEUNTERTEIL	771	70.350.1028.7	GEHAEUSEOBERTEIL	769	70.354.0635.0	GEHAEUSEOBERTEIL	633
70.325.4828.0 70.325.4828.9	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	635 771	70.350.1035.0 70.350.1035.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 637 ■ 637	70.354.0635.1 70.354.0635.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 633 ■ 633
70.330.0628.9	GEHAEUSEUNTERTEIL	770	70.350.1035.1	GENALOGEOBEITEIL	637	70.354.0635.2	GEHAEUEOBERTEIL	633
70.330.0635.0	GEHAEUSEUNTERTEIL	634	70.350.1035.3	GEHAEUSEOBERTEIL	637	70.354.1028.7	GEHAEUSEOBERTEIL	769
70.330.0635.1	GEHAEUSEUNTERTEIL	634	70.350.1045.1		684	70.354.1035.0	GEHAEUSEOBERTEIL	637
70.330.1028.9	GEHAEUSEUNTERTEIL	770	70.350.1628.7	GEHAEUSEOBERTEIL	769	70.354.1035.1	GEHAEUSEOBERTEIL	637
70.330.1035.0 70.330.1035.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 638 ■ 638	70.350.1635.0 70.350.1635.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 637	70.354.1035.2 70.354.1035.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 637
70.330.1635.0	GEHAEUSEUNTERTEIL	638	70.350.1635.2	GETIVIEGGEGBETTTEIE	637	70.354.1628.7	GEHAEUSEOBERTEIL	769
70.330.1635.1	GEHAEUSEUNTERTEIL	638	70.350.1635.3	GEHAEUSEOBERTEIL	637	70.354.1635.0	GEHAEUSEOBERTEIL	637
70.330.2428.9	GEHAEUSEUNTERTEIL	770	70.350.2428.7	OFILAFIJOFODEDTEIJ	769	70.354.1635.1	GEHAEUSEOBERTEIL	637
70.330.2435.0 70.330.2435.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 638 ■ 638	70.350.2435.0 70.350.2435.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 637 ■ 637	70.354.1635.2 70.354.1635.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 637
70.331.0628.9	GEHAEUSEUNTERTEIL	770	70.350.2435.1	GEHAEUSEOBERTEIL	637	70.354.1635.3	GENAEUSEUBENTEIL	769
70.331.0635.0	GEHAEUSEUNTERTEIL	634	70.350.2435.3	GEHAEUSEOBERTEIL	637	70.354.2435.0	GEHAEUSEOBERTEIL	637
70.331.0635.1	GEHAEUSEUNTERTEIL	634	70.350.3235.0	GEHAEUSEOBERTEIL	637	70.354.2435.1	GEHAEUSEOBERTEIL	637
70.331.1028.9	GEHAEUSEUNTERTEIL	770	70.350.3235.1	GEHAEUSEOBERTEIL	637	70.354.2435.2	GEHAEUSEOBERTEIL	637
70.331.1035.0 70.331.1035.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 638 ■ 638	70.350.3235.2 70.350.3235.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 637 ■ 637	70.354.2435.3 70.354.3235.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 637
70.331.1635.0	GEHAEUSEUNTERTEIL	638	70.350.4828.7	GEHAEUSEOBERTEIL	769	70.354.3235.1	GEHAEUSEOBERTEIL	637
70.331.1635.1	GEHAEUSEUNTERTEIL	638	70.350.4835.0	GEHAEUSEOBERTEIL	633	70.354.4828.7	GEHAEUSEOBERTEIL	769
70.331.2428.9	GEHAEUSEUNTERTEIL	770	70.350.4835.1	GEHAEUSEOBERTEIL	633	70.354.4835.1	GEHAEUSEOBERTEIL	633
70.331.2435.0	GEHAEUSEUNTERTEIL	638	70.350.4835.2	GEHAEUSEOBERTEIL	633	70.354.4835.2	GEHAEUSEOBERTEIL	633
70.331.2435.1 70.331.4828.9	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	638 770	70.350.4835.3 70.351.0635.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 633 ■ 633	70.355.1028.7 70.355.1035.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	769 637
70.331.4835.0	GEHAEUSEUNTERTEIL	634	70.351.0635.1	GETT/LOOLOBETTELE	633	70.355.1035.1	GEHAEUSE-OBERTEIL	637
70.331.4835.1	GEHAEUSEUNTERTEIL	634	70.351.0635.2	GEHAEUSEOBERTEIL	633	70.355.1035.2	GEHAEUSE-OBERTEIL	637
70.331.4835.3	GEHAEUSEUNTERTEIL	634	70.351.0635.3	GEHAEUSEOBERTEIL	633	70.355.1035.3	GEHAEUSEOBERTEIL	637
70.333.0628.9 70.333.0635.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	771 635	70.351.1035.0 70.351.1035.1	GEHAEUSEOBERTEIL GEHAEUSE-OBERTEIL	■ 637 ■ 637	70.355.1628.7 70.355.1635.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	769 637
70.333.0635.1	GEHAEUSEUNTERTEIL	635	70.351.1035.1	GEHAEUSEOBERTEIL	637	70.355.1635.1	GEHAEUSE-OBERTEIL	637
70.333.1028.9	GEHAEUSEUNTERTEIL	771	70.351.1035.3	GEHAEUSEOBERTEIL	637	70.355.1635.2	GEHAEUSE-OBERTEIL	637
70.333.1035.0	GEHAEUSEUNTERTEIL	639	70.351.1635.0	GEHAEUSEOBERTEIL	637	70.355.1635.3	GEHAEUSEOBERTEIL	637
70.333.1035.1	GEHAEUSEUNTERTEIL	639	70.351.1635.1	GEHAEUSE-OBERTEIL	637	70.355.2435.0	GEHAEUSEOBERTEIL	637
70.333.1635.0 70.333.1635.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 639 ■ 639	70.351.1635.2 70.351.1635.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 637 ■ 637	70.355.2435.1 70.355.2435.2	GEHAEUSE-OBERTEIL GEHAEUSE-OBERTEIL	■ 637 ■ 637
70.333.2428.9	GEHAEUSEUNTERTEIL	771	70.351.1035.3	GEHAEUSEOBERTEIL	637	70.355.2435.3	GEHAEUSEOBERTEIL	637
70.333.2435.0	GEHAEUSEUNTERTEIL	639	70.351.2435.1	GEHAEUSE-OBERTEIL	637	70.356.1035.0	GEHAEUSEOBERTEIL	637
70.333.2435.1	GEHAEUSEUNTERTEIL	639	70.351.2435.2	GEHAEUSEOBERTEIL	637	70.356.1035.1	GEHAEUSE-OBERTEIL	637
70.340.0628.9	GEHAEUSEUNTERTEIL	771	70.351.2435.3	GEHAEUSEOBERTEIL	637	70.356.1035.2	GEHAEUSEOBERTEIL	637
70.340.0635.0 70.340.0635.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 635 ■ 635	70.352.0628.7 70.352.0635.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 769 ■ 633	70.356.1035.3 70.356.1635.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 637
70.340.1028.9	GEHAEUSEUNTERTEIL	771	70.352.0635.1	GEHAEUSEOBERTEIL	633	70.356.1635.1	GEHAEUSE-OBERTEIL	637
70.340.1035.0	GEHAEUSEUNTERTEIL	639	70.352.0635.2	GEHAEUSEOBERTEIL	633	70.356.1635.2	GEHAEUSEOBERTEIL	637
70.340.1035.1	GEHAEUSEUNTERTEIL	639	70.352.0635.3	GEHAEUSEOBERTEIL	633	70.356.1635.3	GEHAEUSEOBERTEIL	637
70.340.1635.0	GEHAEUSEUNTERTEIL	639	70.352.1028.7	CENVELICEUDEDICII	769 637	70.356.2435.0	GEHAEUSEOBERTEIL	637
70.340.1635.1 70.340.2428.9	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 639 ■ 771	70.352.1035.0 70.352.1035.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 637 ■ 637	70.356.2435.1 70.356.2435.2	GEHAEUSE-OBERTEIL GEHAEUSEOBERTEIL	■ 637 ■ 637
70.340.2435.0	GEHAEUSEUNTERTEIL	639	70.352.1035.1	GEHAEUSEOBERTEIL	637	70.356.2435.3	GEHAEUSEOBERTEIL	637
70.340.2435.1	GEHAEUSEUNTERTEIL	639	70.352.1035.3	GEHAEUSEOBERTEIL	637	70.357.1035.0	GEHAEUSEOBERTEIL	637
70.341.0628.9	GEHAEUSEUNTERTEIL	771	70.352.1628.7	GEHAEUSEOBERTEIL	769	70.357.1035.1	GEHAEUSE-OBERTEIL	637
70.341.0635.0 70.341.0635.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 635 ■ 635	70.352.1635.0 70.352.1635.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 637 ■ 637	70.357.1035.2 70.357.1035.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 637
70.341.1028.9	GEHAEUSEUNTERTEIL	771	70.352.1635.1	GEHAEUSEOBERTEIL	637	70.357.1635.0	GEHAEUSEOBERTEIL	637
70.341.1035.0	GEHAEUSEUNTERTEIL	639	70.352.1635.3	GEHAEUSEOBERTEIL	637	70.357.1635.1	GEHAEUSE-OBERTEIL	637
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Part no.	Туре	section / page	Part no.	Туре	section / page	Part no.	Туре	section / pag
70.357.1635.2	GEHAEUSEOBERTEIL	637	70.500.1053.0	BUCHSENEINSATZ	631	71.331.2435.0	GEHAEUSEUNTERTEIL	634
70.357.1635.3	GEHAEUSEOBERTEIL	637	70.500.1653.0	BUCHSENEINSATZ	631	71.331.2435.1	GEHAEUSEUNTERTEIL	634
70.357.2435.0 70.357.2435.1	GEHAEUSEOBERTEIL GEHAEUSE-OBERTEIL	637 637	70.500.2453.0 70.500.3253.0	BUCHSENEINSATZ BUCHSENEINSATZ	■ 631 ■ 631	71.333.1035.0 71.333.1035.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	635 635
70.357.2435.2	GEHAEUSEOBERTEIL	637	70.500.4853.0	BUCHSENEINSATZ	631	71.333.1635.0	GEHAEUSEUNTERTEIL	635
70.357.2435.3	GEHAEUSEOBERTEIL	637	70.510.0653.0	STECKEREINSATZ	631	71.333.1635.1	GEHAEUSEUNTERTEIL	635
70.358.1035.0 70.358.1035.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 637	70.510.1053.0 70.510.1653.0	STECKEREINSATZ STECKEREINSATZ	■ 631 ■ 631	71.333.2435.0 71.333.2435.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	635 635
70.358.1035.2	GEHAEUSEOBERTEIL	637	70.510.2453.0	STECKEREINSATZ	631	71.340.1035.0	GEHAEUSEUNTERTEIL	635
70.358.1035.3 70.358.1635.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 637	70.510.3253.0 70.510.4853.0	STECKEREINSATZ STECKEREINSATZ	■ 631 ■ 631	71.340.1035.1 71.340.1635.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	635 635
70.358.1635.1	GEHAEUSEOBERTEIL	637	70.700.0658.0	BUCHSENEINSATZ	631	71.340.1635.1	GEHAEUSEUNTERTEIL	635
70.358.1635.2	GEHAEUSEOBERTEIL	637	70.700.1058.0	BUCHSENEINSATZ	631	71.340.2435.0	GEHAEUSEUNTERTEIL	635
70.358.1635.3 70.358.2428.7	GEHAEUSEOBERTEIL	637 769	70.700.1658.0 70.700.2458.0	BUCHSENEINSATZ BUCHSENEINSATZ	■ 631 ■ 631	71.340.2435.1 71.341.1035.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 635 ■ 635
70.358.2435.0	GEHAEUSEOBERTEIL	637	70.700.3253.0	BUCHSENEINSATZ	631	71.341.1035.1	GEHAEUSEUNTERTEIL	635
70.358.2435.1 70.358.2435.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 637	70.700.4858.0 70.710.0658.0	BUCHSENEINSATZ STECKEREINSATZ	■ 631 ■ 631	71.341.1635.0 71.341.1635.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 635 ■ 635
70.358.2435.3	GEHAEUSEOBERTEIL	637 637	70.710.0058.0	STECKEREINSATZ	631	71.341.1035.1	GEHAEUSEUNTERTEIL	635
70.359.1035.0	GEHAEUSEOBERTEIL	637	70.710.1658.0	STECKEREINSATZ	631	71.341.2435.1	GEHAEUSEUNTERTEIL	635
70.359.1035.1 70.359.1035.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 637	70.710.2458.0 70.710.3253.0	STECKEREINSATZ STECKEREINSATZ	■ 631 ■ 631	71.342.1035.0 71.342.1035.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	635 635
70.359.1035.2	GEHAEUSEOBERTEIL	637	70.710.4858.0	STECKEREINSATZ	631	71.342.1635.0	GEHAEUSEUNTERTEIL	635
70.359.1628.7	0511451105005055	769	70.940.0653.3	ADA.I.GEH.BU. 6WL	667	71.342.1635.1	GEHAEUSEUNTERTEIL	635
70.359.1635.0 70.359.1635.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 637	70.940.0653.4 70.940.1053.3	ADA.I.GEH.BU.06WL ADA.I.GEH.BU.10WL	■ 667 ■ 667	71.342.2435.0 71.342.2435.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	635 635
70.359.1635.2	GEHAEUSEOBERTEIL	637	70.940.1053.4	ADA.I.GEH.BU.10WL	667	71.343.1035.0	GEHAEUSEUNTERTEIL	635
70.359.1635.3	GEHAEUSEOBERTEIL	637	70.940.1653.3	ADA.I.GEH.BU.16WL	667	71.343.1035.1	GEHAEUSEUNTERTEIL	635
70.359.2435.0 70.359.2435.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	637 637	70.940.1653.4 70.940.2453.3	ADA.I.GEH.BU.16WL ADA.I.GEH.BU.24WL	■ 667 ■ 667	71.343.1635.0 71.343.1635.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 635 ■ 635
70.359.2435.2	GEHAEUSEOBERTEIL	637	70.940.2453.4	ADA.I.GEH.BU.24WL	667	71.343.2435.0	GEHAEUSEUNTERTEIL	635
70.359.2435.3	GEHAEUSEOBERTEIL	637	70.945.0653.3	ADA.I.GEH.BU. 6WR	667	71.343.2435.1	GEHAEUSEUNTERTEIL	635
70.360.0628.9 70.360.1028.9	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	769 769	70.945.0653.4 70.945.1053.3	ADA.I.GEH.BU. 6WR ADA.I.GEH.BU.10WR	■ 667 ■ 667	71.350.1035.0 71.350.1035.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	633 633
70.360.1628.9	GEHAEUSEOBERTEIL	769	70.945.1053.4	ADA.I.GEH.BU.10WR	667	71.350.1035.1	GEHAEUSEOBERTEIL	633
70.360.2428.9	GEHAEUSEOBERTEIL	769	70.945.1653.3	ADA.I.GEH.BU.16WR	667	71.350.1035.3	GEHAEUSEOBERTEIL	633
70.360.4828.9 70.362.0628.9	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	769 769	70.945.1653.4 70.945.2453.3	ADA.I.GEH.BU.16WR ADA.I.GEH.BU.24WR	■ 667 ■ 667	71.350.1635.0 71.350.1635.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	633 633
70.362.1028.9	GEHAEUSEOBERTEIL	769	70.945.2453.4	ADA.I.GEH.BU.24WR	667	71.350.1635.2	GEHAEUSEOBERTEIL	633
70.362.1628.9	GEHAEUSEOBERTEIL	769	70.950.0653.3	ADA.I.GEH.ST. 6WL	667	71.350.1635.3	GEHAEUSEOBERTEIL	633
70.362.2428.9 70.362.4828.9	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	772 769	70.950.0653.4 70.950.1053.3	ADA.I.GEH.ST.06WL ADA.I.GEH.ST.10WL	■ 667 ■ 667	71.350.2435.0 71.350.2435.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	633 633
70.363.0628.9	GEHAEUSEOBERTEIL	769	70.950.1053.4	ADA.I.GEH.ST.10WL	667	71.350.2435.2	GEHAEUSEOBERTEIL	633
70.363.1028.9	GEHAEUSEOBERTEIL	769	70.950.1653.3	ADA.I.GEH.ST.16WL	667	71.350.2435.3	GEHAEUSEOBERTEIL	633
70.363.1628.9 70.363.2428.9	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	769 769	70.950.1653.4 70.950.2453.3	ADA.I.GEH.ST.16WL ADA.I.GEH.ST.24WL	■ 667 ■ 667	71.351.1035.0 71.351.1035.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	633 633
70.364.0628.9	GEHAEUSEOBERTEIL	769	70.950.2453.4	ADA.I.GEH.ST.24WL	667	71.351.1035.2	GEHAEUSEOBERTEIL	633
70.364.1028.9	GEHAEUSEOBERTEIL	769 769	70.955.0653.3	ADA.I.GEH.ST. 6WR	667	71.351.1035.3	GEHAEUSEOBERTEIL	633 633
70.364.1628.9 70.364.4828.9	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	769 769	70.955.0653.4 70.955.1053.3	ADA.I.GEH.ST. 6WR ADA.I.GEH.ST.10WR	■ 667 ■ 667	71.351.1635.0 71.351.1635.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 633 ■ 633
70.365.1028.9	GEHAEUSEOBERTEIL	769	70.955.1053.4	ADA.I.GEH.ST.10WR	667	71.351.1635.2	GEHAEUSEOBERTEIL	633
70.365.1628.9 70.365.2428.9	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	769 769	70.955.1653.3 70.955.1653.4	ADA.I.GEH.ST.16WR ADA.I.GEH.ST.16WR	■ 667 ■ 667	71.351.1635.3 71.351.2435.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	633 633
70.367.1028.9	GEHAEUSEOBERTEIL	769	70.955.1653.4	ADA.I.GEH.ST.24WR	667	71.351.2435.1	GEHAEUSEOBERTEIL	633
70.367.1628.9	GEHAEUSEOBERTEIL	769	70.955.2453.4	ADA.I.GEH.ST.24WR	667	71.351.2435.2	GEHAEUSEOBERTEIL	633
70.367.2428.9 70.368.1028.9	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	769 769	70.960.0353.3 70.960.0353.4	ADA.I.GEH.BU. 3WL ADA.I.GEH.BU. 3WL	671 671	71.351.2435.3 71.352.1035.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	633 633
70.368.1628.9	GEHAEUSEOBERTEIL	769	70.960.0653.3	ADA.I.GEH.BU. 6WL	671	71.352.1035.1	GEHAEUSEOBERTEIL	633
70.368.2428.9	GEHAEUSEOBERTEIL	769	70.960.0653.4	ADA.I.GEH.BU. 6WL	671	71.352.1035.2	GEHAEUSEOBERTEIL	633
70.369.1028.9 70.369.1628.9	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	769 769	70.960.1053.3 70.960.1053.4	ADA.I.GEH.BU.10WL ADA.I.GEH.BU.10WL	671 671	71.352.1035.3 71.352.1635.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	633 633
70.372.0628.7	GEHAEUSEOBERTEIL	773	70.965.0353.3	ADA.I.GEH.BU. 3WR	671	71.352.1635.1	GEHAEUSEOBERTEIL	633
70.372.0635.0	GEHAEUSEOBERTEIL	733 733	70.965.0353.4	ADA.I.GEH. 3WR	671 671	71.352.1635.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	633 633
70.372.0635.3 70.372.1028.7	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	733 773	70.965.0653.3 70.965.0653.4	ADA.I.GEH.BU. 6WR ADA.I.GEH.BU. 6WR	671 671	71.352.1635.3 71.352.2435.0	GEHAEUSEOBERTEIL	■ 633 ■ 633
70.372.1035.0	GEHAEUSEOBERTEIL	733	70.965.1053.3	ADA.I.GEH.BU.10WR	671	71.352.2435.1	GEHAEUSEOBERTEIL	633
70.372.1035.3 70.372.1628.7	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	733 773	70.965.1053.4 70.970.0353.3	ADA.I.GEH.BU.10WL ADA.I.GEH.ST. 3WL	671 671	71.352.2435.2 71.352.2435.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	633 633
70.372.1635.0	GEHAEUSEOBERTEIL	733	70.970.0353.4	ADA.I:GEH.ST. 3WL	671	71.353.1035.0	GEHAEUSEOBERTEIL	633
70.372.1635.3	GEHAEUSEOBERTEIL	733	70.970.0653.3	ADA.I.GEH.ST. 6WL	671	71.353.1035.1	GEHAEUSEOBERTEIL	633
70.372.2428.7 70.372.4828.7	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	773 773	70.970.0653.4 70.970.1053.3	ADA.I.GEH.ST. 6WL ADA.I.GEH.ST.10WL	671 671	71.353.1035.2 71.353.1035.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	633 633
70.372.4835.3	GEHAEUSEOBERTEIL	733	70.970.1053.4	ADA.I.GEH.ST.10WL	671	71.353.1635.0	GEHAEUSEOBERTEIL	633
70.374.1635.0		733	70.975.0353.3	ADA.I.GEH.ST. 3WR	671	71.353.1635.1	GEHAEUSEOBERTEIL	633
70.374.1635.3 70.374.2435.0		733 733	70.975.0353.4 70.975.0653.3	ADA.I.GEH.ST. 3WR ADA.I.GEH.ST. 6WR	671 671	71.353.1635.2 71.353.1635.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	633 633
70.374.2435.3	GEHAEUSEOBERTEIL	733	70.975.0653.4	ADA.I.GEH.ST. 6WR	671	71.353.2435.0	GEHAEUSEOBERTEIL	633
70.375.4828.9	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	772 733	70.975.1053.3 70.975.1053.4	ADA.I.GEH.ST.10WR ADA.I.GEH.ST.10WR	671 671	71.353.2435.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	633 633
70.375.4835.3 70.377.4828.9	GEHAEUSEOBERTEIL	733 772	71.320.1028.0	GEHAEUSEUNTERTEIL	671 634	71.353.2435.2 71.353.2435.3	GEHAEUSEOBERTEIL	■ 633 ■ 633
70.400.0340.0	BU.EINSATZ 660V	643	71.320.1628.0	GEHAEUSEUNTERTEIL	634	71.354.1035.0	GEHAEUSEOBERTEIL	633
70.400.0640.0 70.400.1040.0	BU.EINSATZ 660V BU.EINSATZ 660V	643 643	71.320.2428.0 71.325.1028.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 634 ■ 635	71.354.1035.1 71.354.1035.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	633 633
70.400.1640.0	BU.EINSATZ 660V	643	71.325.1628.0	GEHAEUSEUNTERTEIL	635	71.354.1035.2	GEHAEUSEOBERTEIL	633
70.400.2040.0	BU.EINSATZ 660V	643	71.325.2428.0	GEHAEUSEUNTERTEIL	635	71.354.1635.0	GEHAEUSEOBERTEIL	633
70.400.2640.0 70.400.3240.0	BU.EINSATZ 660V BU.EINSATZ 660V	643 643	71.330.1035.0 71.330.1035.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 634 ■ 634	71.354.1635.1 71.354.1635.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	633 633
70.410.0340.0	ST.EINSATZ 660V	643	71.330.1635.0	GEHAEUSEUNTERTEIL	634	71.354.1635.2	GEHAEUSEOBERTEIL	633
70.410.0640.0	ST.EINSATZ 660V	643	71.330.1635.1	GEHAEUSEUNTERTEIL	634	71.354.2435.0	GEHAEUSEOBERTEIL	633
70.410.1040.0 70.410.1640.0	ST.EINSATZ 660V ST.EINSATZ 660V	643 643	71.330.2435.0 71.330.2435.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 634 ■ 634	71.354.2435.1 71.354.2435.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	633 633
70.410.2040.0	ST.EINSATZ 660V	643	71.331.1035.0	GEHAEUSEUNTERTEIL	634	71.354.2435.3	GEHAEUSEOBERTEIL	633
70.410.2640.0	ST.EINSATZ 660V	643	71.331.1035.1	GEHAEUSEUNTERTEIL	634	71.372.1035.0	GEHAEUSEOBERTEIL	735
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72.355.1035.2	GEHAEUSEOBERTEIL	649	72.950.0653.4		■ 669	73.352.4035.0	GEHAEUSEOBERTEIL	709
72.355.1035.3	GEHAEUSEOBERTEIL	649	72.950.1053.0	ADA.I.GEH.ST.10WL	669	73.352.4035.1	GEHAEUSEOBERTEIL	709
72.355.1635.0	GEHAEUSEOBERTEIL	649	72.950.1053.4		669	73.352.4035.2	GEHAEUSEOBERTEIL	709
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72.355.1635.2	GEHAEUSEOBERTEIL	649 649	72.950.1053.4	ADA.I.GEH.ST.24WL	669	73.352.6435.1	GEHAEUSEOBERTEIL	727
72.355.2435.0	GEHAEUSEOBERTEIL	649	72.950.2453.4	71071	669	73.352.6435.2	GEHAEUSEOBERTEIL	727
72.355.2435.1	GEHAEUSEOBERTEIL	649	72.955.0653.0	ADA.I.GEH.ST. 6WR	669	73.352.6435.3	GEHAEUSEOBERTEIL	727
72.355.2435.2	GEHAEUSEOBERTEIL	649	72.955.0653.4	ADA LOGULOT AGAID	669	73.353.0645.1	OFLIAFILOEODERTEIL	684
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72.356.1035.1	GEHAEUSEOBERTEIL	649 649	72.955.1653.0	ADA.I.GEH.ST.16WR	669	73.353.1035.1	GEHAEUSEOBERTEIL	749
72.356.1035.2	GEHAEUSEOBERTEIL	649	72.955.1653.4	ADA.I.GEH.ST.16WR	669	73.353.1035.3		749
72.356.1035.3	GEHAEUSEOBERTEIL	649	72.955.2453.0	ADA.I.GEH.ST.24WR	669	73.353.1045.1		684
72.356.1635.0	GEHAEUSEOBERTEIL	649	72.955.2453.4	IZLADA DILAGIAN	669	73.353.4035.0	GEHAEUSEOBERTEIL	709
72.356.1635.1 72.356.1635.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	649 649	73.100.4053.0 73.100.6453.0	KL.ADA. BU.40WL KL.ADA. BU.64WL	719 719	73.353.4035.1 73.353.4035.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	709 709
72.356.1635.3	GEHAEUSEOBERTEIL	649	73.105.4053.0	KL.ADA. BU.40WR	719	73.353.4035.3	GEHAEUSEOBERTEIL	709
72.356.2435.0	GEHAEUSEOBERTEIL	649	73.105.6453.0	KL.ADA. BU.64WR	719	73.353.4045.1		684
72.356.2435.1	GEHAEUSEOBERTEIL	649	73.110.4053.0	KL.ADA. ST.40WL	719	73.353.6435.0	GEHAEUSEOBERTEIL	727
72.356.2435.2	GEHAEUSEOBERTEIL	649	73.110.6453.0	KL.ADA. ST.64WL	719	73.353.6435.1	GEHAEUSEOBERTEIL	727
72.356.2435.3 72.357.1035.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	649 649	73.115.4053.0 73.115.6453.0	KL.ADA. ST.40WR KL.ADA. ST.64WR	719 719	73.353.6435.2 73.353.6435.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	727 727
72.357.1035.1	GEHAEUSEOBERTEIL	649	73.300.0353.0	BUCHSENEINSATZ	713	73.353.6445.1	GETWIEGGEGBETTTEIE	684
72.357.1035.2	GEHAEUSEOBERTEIL	649	73.300.0453.0	BUCHSENEINSATZ	713	73.354.1035.0	GEHAEUSEOBERTEIL	749
72.357.1035.3	GEHAEUSEOBERTEIL	649	73.310.0353.0	STECKEREINSATZ	713	73.354.1035.1	GEHAEUSEOBERTEIL	749
72.357.1635.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	649	73.310.0453.0	STECKEREINSATZ	713 729	73.354.1035.2	GEHAEUSEOBERTEIL	749 749
72.357.1635.1 72.357.1635.2	GEHAEUSEOBERTEIL	649 649	73.326.4028.0 73.326.6428.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	729 729	73.354.1035.3 73.354.4035.0	GEHAEUSEOBERTEIL	749
72.357.1635.3	GEHAEUSEOBERTEIL	649	73.327.4028.0	GEHAEUSEUNTERTEIL	731	73.354.4035.1	GETWIEGGEGBETTTEIE	727
72.357.2435.0	GEHAEUSEOBERTEIL	649	73.327.6428.0	GEHAEUSEUNTERTEIL	731	73.354.4035.2		727
72.357.2435.1	GEHAEUSEOBERTEIL	649	73.330.4035.0	GEHAEUSEUNTERTEIL	729	73.354.4035.3		727
72.357.2435.2	GEHAEUSEOBERTEIL	649	73.330.4035.1	GEHAEUSEUNTERTEIL	729	73.354.6435.0	GEHAEUSEOBERTEIL	727
72.357.2435.3 72.358.1035.0	GEHAEUSEOBERTEIL	649 649	73.330.6435.0 73.330.6435.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	729 729	73.354.6435.1 73.354.6435.2		727 727
72.358.1035.1		649 649	73.331.4035.0	GEHAEUSEUNTERTEIL	729	73.354.6435.3		727
72.358.1035.2		649	73.331.4035.1	GEHAEUSEUNTERTEIL	729	73.355.4035.0	GEHAEUSEOBERTEIL	727
72.358.1035.3		649	73.331.6435.0	GEHAEUSEUNTERTEIL	729	73.355.4035.1	GEHAEUSEOBERTEIL	727
72.358.1635.0		649	73.331.6435.1	GEHAEUSEUNTERTEIL	729	73.355.4035.2	GEHAEUSEOBERTEIL	727
72.358.1635.1 72.358.1635.2		649 649	73.333.4035.0 73.333.4035.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	729 729	73.355.4035.3 73.355.6435.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	727 727
72.358.1635.3		649	73.333.6435.0	GEHAEUSEUNTERTEIL	729	73.355.6435.1	GEHAEUSEOBERTEIL	727
72.358.2435.0		649	73.333.6435.1	GEHAEUSEUNTERTEIL	729	73.355.6435.2	GEHAEUSEOBERTEIL	727
72.358.2435.1		649	73.334.4035.0	GEHAEUSEUNTERTEIL	638	73.355.6435.3	GEHAEUSEOBERTEIL	727
72.358.2435.2		649	73.334.4035.1	GEHAEUSEUNTERTEIL	638	73.357.4035.0	GEHAEUSEOBERTEIL	709 709
72.358.2435.3 72.359.1035.0		649 649	73.334.6435.0 73.334.6435.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 638 ■ 638	73.357.4035.1 73.357.4035.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	709
72.359.1035.1		649	73.335.4035.0	GEHAEUSEUNTERTEIL	638	73.357.4035.3	GEHAEUSEOBERTEIL	709
72.359.1035.2		649	73.335.4035.1	GEHAEUSEUNTERTEIL	638	73.357.6435.0	GEHAEUSEOBERTEIL	727
72.359.1035.3		649	73.335.6435.0	GEHAEUSEUNTERTEIL	638	73.357.6435.1	GEHAEUSEOBERTEIL	727
72.359.1635.0 72.359.1635.1		■ 649 ■ 649	73.335.6435.1 73.337.4035.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 638 ■ 639	73.357.6435.2 73.357.6435.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	727 727
72.359.1635.1		649	73.337.4035.0	GEHAEUSEUNTERTEIL	639	73.358.4035.0	GEHAEUSEOBERTEIL	709
72.359.1635.3		649	73.337.6435.0	GEHAEUSEUNTERTEIL	639	73.358.4035.1	GEHAEUSEOBERTEIL	709
72.359.2435.0	GEHAEUSEOBERTEIL	649	73.337.6435.1	GEHAEUSEUNTERTEIL	639	73.358.4035.2	GEHAEUSEOBERTEIL	709
72.359.2435.1		649	73.340.4035.0	GEHAEUSEUNTERTEIL	731	73.358.4035.3	GEHAEUSEOBERTEIL	709
72.359.2435.2 72.359.2435.3		■ 649 ■ 649	73.340.4035.1 73.340.6435.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	731 731	73.358.6435.0 73.358.6435.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	727 727
72.372.1035.0	GEHAEUSEOBERTEIL	733	73.340.6435.1	GEHAEUSEUNTERTEIL	731	73.358.6435.2	GEHAEUSEOBERTEIL	727
72.372.1035.3	GEHAEUSEOBERTEIL	733	73.341.4035.0	GEHAEUSEUNTERTEIL	731	73.358.6435.3	GEHAEUSEOBERTEIL	727
72.372.1635.0	GEHAEUSEOBERTEIL	733	73.341.4035.1	GEHAEUSEUNTERTEIL	731	73.359.4035.0	GEHAEUSEOBERTEIL	727
72.372.1635.3	GEHAEUSEOBERTEIL	733	73.341.6435.0	GEHAEUSEUNTERTEIL	731	73.359.4035.1		727
72.372.2435.0 72.372.2435.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	733 733	73.341.6435.1 73.342.4035.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	731 731	73.359.4035.2 73.359.4035.3		727 727
72.374.2435.0	GENNEOOLOBENTEIL	733	73.342.4035.1	GEHAEUSEUNTERTEIL	731	73.359.6435.0	GEHAEUSEOBERTEIL	727
72.374.2435.3	GEHAEUSEOBERTEIL	733	73.342.6435.0	GEHAEUSEUNTERTEIL	731	73.359.6435.1		727
72.700.0658.0	BUCHSENEINSATZ	655	73.342.6435.1	GEHAEUSEUNTERTEIL	731	73.359.6435.2		727
72.700.1058.0 72.700.1658.0	BUCHSENEINSATZ BUCHSENEINSATZ	■ 655 ■ 655	73.343.4035.0 73.343.4035.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	731 731	73.359.6435.3 73.700.0753.0	BUCHSENEINSATZ	749 713
72.700.1058.0	BUCHSENEINSATZ	655	73.343.6435.0	GEHAEUSEUNTERTEIL	731	73.700.0753.0	BUCHSENEINSATZ	713
72.700.3258.0	BUCHSENEINSATZ	655	73.343.6435.1	GEHAEUSEUNTERTEIL	731	73.700.1553.0	BUCHSENEINSATZ	719
72.700.4858.0	BUCHSENEINSATZ	655	73.344.4035.0	GEHAEUSEUNTERTEIL	639	73.700.2553.0	BUCHSENEINSATZ	719
72.710.0658.0	STECKEREINSATZ	655	73.344.4035.1	GEHAEUSEUNTERTEIL	639	73.700.4058.0	BUCHSENEINSATZ	719
72.710.1058.0 72.710.1658.0	STECKEREINSATZ STECKEREINSATZ	■ 655 ■ 655	73.344.6435.0 73.344.6435.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 639 ■ 639	73.700.6458.0 73.710.0753.0	BUCHSENEINSATZ STECKEREINSATZ	719 713
72.710.1058.0	STECKEREINSATZ	655	73.345.4035.0	GEHAEUSEUNTERTEIL	■ 639 ■ 639	73.710.0753.0	STECKEREINSATZ	713
72.710.3258.0	STECKEREINSATZ	655	73.345.4035.1	GEHAEUSEUNTERTEIL	639	73.710.1553.0	STECKEREINSATZ	719
72.710.4858.0	STECKEREINSATZ	655	73.345.6435.0	GEHAEUSEUNTERTEIL	639	73.710.2553.0	STECKEREINSATZ	719
72.940.0653.0	ADA.I.GEH.BU. 6WL	669	73.345.6435.1	GEHAEUSEUNTERTEIL	639	73.710.4058.0	STECKEREINSATZ	719
72.940.0653.4 72.940.1053.0	ADA.I.GEH.BU.10WL	■ 669 ■ 669	73.346.4035.0 73.346.4035.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 639 ■ 639	73.710.6458.0 75.012.0053.0	STECKEREINSATZ BUCHSENTEIL	719 758
72.940.1053.0	ADA.I.GET.DU.TUWÉ	■ 669 ■ 669	73.346.6435.0	GEHAEUSEUNTERTEIL	■ 639 ■ 639	75.012.5053.0	STECKERTEIL	758 758
72.940.1653.0	ADA.I.GEH.BU.16WL	669	73.346.6435.1	GEHAEUSEUNTERTEIL	639	75.013.0051.0	OBERTEIL	758
72.940.1653.4		669	73.347.4035.0	GEHAEUSEUNTERTEIL	639	75.013.0051.2	OBERTEIL	758
72.940.2453.0	ADA.I.GEH.BU.24WL	669	73.347.4035.1	GEHAEUSEUNTERTEIL	639	75.013.5051.0	UNTERTEIL	758
72.940.2453.4 72.945.0653.0	ADA.I.GEH.BU. 6WR	■ 669 ■ 669	73.347.6435.0 73.347.6435.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 639 ■ 639	75.900.0035.0 75.900.0135.0	GEH.UT. TEIL F GEH.OT. TEIL L	664 664
72.945.0653.4	ADA.I.GEH.DU. UVIII	669 669	73.350.4035.0	GEHAEUSEOBERTEIL	727	75.931.1635.0	GEH.UT. TEIL F	664
72.945.1053.0	ADA.I.GEH.BU.10WR	669	73.350.4035.1	GEHAEUSEOBERTEIL	727	75.931.2435.0	GEH.UT. TEIL F	664
72.945.1053.4		669	73.350.4035.2	GEHAEUSEOBERTEIL	727	75.933.1635.0	GEH.UT. TEIL F	664
72.945.1653.0	ADA.I.GEH.BU.16WR	669	73.350.4035.3	GEHAEUSEOBERTEIL	727	75.933.2435.0	GEH.UT. TEIL F	664
72.945.1653.4 72.945.2453.0	ADA.I.GEH.BU.24WR	■ 669 ■ 669	73.350.6435.0 73.350.6435.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	727 727	75.934.2435.0 75.941.1635.0	GEH.UT. TEIL F GEH.UT. TEIL F	664 664
72.945.2453.0	ADA.I.ULII.DU.Z4VVI	669	73.350.6435.1	GEHAEUSEOBERTEIL	■ 727 ■ 727	75.941.1635.0	GEH.UT. TEIL F	664
72.950.0653.0	ADA.I.GEH.ST. 6WL	669	73.350.6435.2	GEHAEUSEOBERTEIL	727	75.950.1635.0	GEH.OT. TEIL L	664

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Part no.	Туре	section / page	Part no.	Туре	section / page	Part no.	Туре	section / page
75.950.2435.0	GEH.OT. TEIL L	664	76.350.2535.0	GEHAEUSEOBERTEIL	721	77.342.1035.1	GEHAEUSEUNTERTEIL	647
75.960.1635.0	GEH.OT. TEIL L	664	76.350.2535.2	GEHAEUSEOBERTEIL	721	77.342.1635.0	GEHAEUSEUNTERTEIL	647
75.960.2435.0 76.320.0729.0	GEH.OT. TEIL L GEHAEUSEUNTERTEIL	■ 664 ■ 713	76.350.4035.0 76.350.4035.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	721 721	77.342.1635.1 77.342.2435.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 647 ■ 647
76.320.0753.0	GEHAEUSEUNTERTEIL	713	76.350.4035.2	GEHAEUSEOBERTEIL	721	77.342.2435.1	GEHAEUSEUNTERTEIL	647
76.320.1528.0	GEHAEUSEUNTERTEIL	723	76.350.4035.3	GEHAEUSEOBERTEIL	721	77.343.1035.0	GEHAEUSEUNTERTEIL	647
76.320.2528.0 76.321.0729.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	723 713	76.350.6435.0 76.350.6435.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	721 721	77.343.1035.1 77.343.1635.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 647 ■ 647
76.321.0753.0	GEHAEUSEUNTERTEIL	713	76.350.6435.2	GEHAEUSEOBERTEIL	721	77.343.1635.1	GEHAEUSEUNTERTEIL	647
76.322.0736.0	GEHAEUSEUNTERTEIL	713	76.350.6435.3	GEHAEUSEOBERTEIL	721	77.343.2435.0	GEHAEUSEUNTERTEIL	647
76.322.0736.1	GEHAEUSEUNTERTEIL	713	76.352.0736.0	GEHAEUSEOBERTEIL	713	77.343.2435.1	GEHAEUSEUNTERTEIL	647
76.322.0760.1 76.325.1528.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	713 725	76.352.0736.1 76.352.0760.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	713 713	77.350.1035.0 77.350.1035.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 645 ■ 645
76.325.2528.0	GEHAEUSEUNTERTEIL	725	76.352.1535.0	GEHAEUSEOBERTEIL	721	77.350.1035.2	GEHAEUSEOBERTEIL	645
76.326.4028.0	GEHAEUSEUNTERTEIL	723	76.352.1535.1	GEHAEUSEOBERTEIL	721	77.350.1035.3	GEHAEUSEOBERTEIL	645
76.326.6428.0 76.327.4028.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	723 725	76.352.1535.2 76.352.2535.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	721 721	77.350.1635.0 77.350.1635.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	645 645
76.327.6428.0	GEHAEUSEUNTERTEIL	725 725	76.352.2535.0	GEHAEUSEOBERTEIL	721 721	77.350.1635.1	GEHAEUSEOBERTEIL	■ 645 ■ 645
76.330.1535.0	GEHAEUSEUNTERTEIL	723	76.352.2535.2	GEHAEUSEOBERTEIL	721	77.350.1635.3	GEHAEUSEOBERTEIL	645
76.330.1535.1	GEHAEUSEUNTERTEIL	723	76.352.4035.0	GEHAEUSEOBERTEIL	697	77.350.2435.0	GEHAEUSEOBERTEIL	645
76.330.2535.0 76.330.2535.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	723 723	76.352.4035.1 76.352.4035.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 697 ■ 697	77.350.2435.1 77.350.2435.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 645 ■ 645
76.330.4035.0	GEHAEUSEUNTERTEIL	723	76.352.4035.3	GEHAEUSEOBERTEIL	697	77.350.2435.3	GEHAEUSEOBERTEIL	645
76.330.4035.1	GEHAEUSEUNTERTEIL	723	76.352.6435.0	GEHAEUSEOBERTEIL	721	77.351.1035.0	GEHAEUSEOBERTEIL	645
76.330.6435.0 76.330.6435.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	723 723	76.352.6435.1 76.352.6435.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	721 721	77.351.1035.1 77.351.1035.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 645 ■ 645
76.331.1535.0	GEHAEUSEUNTERTEIL	723 723	76.352.6435.3	GEHAEUSEOBERTEIL	721 721	77.351.1035.2	GEHAEUSEOBERTEIL	■ 645 ■ 645
76.331.1535.1	GEHAEUSEUNTERTEIL	723	76.353.1535.0	GEHAEUSEOBERTEIL	721	77.351.1635.0	GEHAEUSEOBERTEIL	645
76.331.2535.0	GEHAEUSEUNTERTEIL	723	76.353.1535.2	GEHAEUSEOBERTEIL	721	77.351.1635.1	GEHAEUSEOBERTEIL	645
76.331.2535.1 76.331.4035.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	723 723	76.353.2535.0 76.353.2535.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	721 721	77.351.1635.2 77.351.1635.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 645 ■ 645
76.331.4035.1	GEHAEUSEUNTERTEIL	723	76.353.4035.0	GEHAEUSEOBERTEIL	697	77.351.1035.3	GEHAEUSEOBERTEIL	645
76.331.6435.0	GEHAEUSEUNTERTEIL	723	76.353.4035.1	GEHAEUSEOBERTEIL	697	77.351.2435.1	GEHAEUSEOBERTEIL	645
76.331.6435.1 76.333.4035.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	723 723	76.353.4035.2 76.353.4035.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	697 697	77.351.2435.2 77.351.2435.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	645 645
76.333.4035.1	GEHAEUSEUNTERTEIL	723 723	76.353.6435.0	GEHAEUSEOBERTEIL	697 721	77.351.2435.3	GEHAEUSEOBERTEIL	■ 645 ■ 645
76.333.6435.0	GEHAEUSEUNTERTEIL	723	76.353.6435.1	GEHAEUSEOBERTEIL	721	77.352.1035.1	GEHAEUSEOBERTEIL	645
76.333.6435.1	GEHAEUSEUNTERTEIL	723	76.353.6435.2	GEHAEUSEOBERTEIL	721	77.352.1035.2	GEHAEUSEOBERTEIL	645
76.334.1535.0 76.334.1535.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	723 723	76.353.6435.3 76.354.1535.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	721 721	77.352.1035.3 77.352.1635.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 645 ■ 645
76.334.2535.0	GEHAEUSEUNTERTEIL	723	76.354.1535.1	GEHAEUSEOBERTEIL	721	77.352.1635.1	GEHAEUSEOBERTEIL	645
76.334.2535.1	GEHAEUSEUNTERTEIL	723	76.354.1535.2	GEHAEUSEOBERTEIL	721	77.352.1635.2	GEHAEUSEOBERTEIL	645
76.334.4035.0	GEHAEUSEUNTERTEIL	634	76.354.2535.0	GEHAEUSEOBERTEIL	721	77.352.1635.3	GEHAEUSEOBERTEIL	645
76.334.4035.1 76.334.6435.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 634 ■ 634	76.354.2535.1 76.354.2535.2	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	721 721	77.352.2435.0 77.352.2435.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	■ 645 ■ 645
76.334.6435.1	GEHAEUSEUNTERTEIL	634	76.354.4035.0	GEHAEUSEOBERTEIL	707	77.352.2435.2	GEHAEUSEOBERTEIL	645
76.335.1535.0	GEHAEUSEUNTERTEIL	723	76.354.4035.1	GEHAEUSEOBERTEIL	707	77.352.2435.3	GEHAEUSEOBERTEIL	645
76.335.1535.1 76.335.2535.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	723 723	76.354.4035.2 76.354.4035.3	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	707 707	77.353.1035.0 77.353.1035.1		■ 645 ■ 645
76.335.2535.0	GEHAEUSEUNTERTEIL	723	76.354.4035.3	GEHAEUSEOBERTEIL	721	77.353.1035.1		645
76.335.4035.0	GEHAEUSEUNTERTEIL	634	76.354.6435.1	GEHAEUSEOBERTEIL	721	77.353.1035.3		645
76.335.4035.1	GEHAEUSEUNTERTEIL	634	76.354.6435.2	GEHAEUSEOBERTEIL	721	77.353.1635.0		645
76.335.6435.0 76.335.6435.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 634 ■ 634	76.354.6435.3 76.372.0736.0	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	721 713	77.353.1635.1 77.353.1635.2		645 645
76.337.4035.0	GEHAEUSEUNTERTEIL	635	76.372.0736.1	GEHAEUSEOBERTEIL	713	77.353.1635.3		645
76.337.4035.1	GEHAEUSEUNTERTEIL	635	76.372.0760.1	GEHAEUSEOBERTEIL	713	77.353.2435.0		645
76.337.6435.0 76.337.6435.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 635 ■ 635	76.372.1535.0 76.372.2535.0		735 735	77.353.2435.1 77.353.2435.2		■ 645 ■ 645
76.340.4035.0	GEHAEUSEUNTERTEIL	725	77.320.1028.0	GEHAEUSEUNTERTEIL	646	77.353.2435.2		645
76.340.4035.1		725	77.320.1628.0	GEHAEUSEUNTERTEIL	646	77.354.1035.0		645
76.340.6435.0	GEHAEUSEUNTERTEIL	725	77.320.2428.0	GEHAEUSEUNTERTEIL		77.354.1035.1		645
76.340.6435.1 76.341.4035.0	GEHAEUSEUNTERTEIL	725 725	77.325.1028.0 77.325.1628.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	647	77.354.1035.2 77.354.1035.3		645 645
76.341.4035.1	GET I LEGGE OT TELLTER	725	77.325.2428.0	GEHAEUSEUNTERTEIL		77.354.1635.0		645
76.341.6435.0	GEHAEUSEUNTERTEIL	725	77.330.1035.0	GEHAEUSEUNTERTEIL		77.354.1635.1		645
76.341.6435.1 76.342.4035.0	GEHAEUSEUNTERTEIL	725 725	77.330.1035.1 77.330.1635.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL		77.354.1635.2 77.354.1635.3		■ 645 ■ 645
76.342.4035.1	GENAEUSEUNTENTEIL	725	77.330.1635.0	GEHAEUSEUNTERTEIL		77.354.1635.3	GEHAEUSEOBERTEIL	645
76.342.6435.0	GEHAEUSEUNTERTEIL	725	77.330.2435.0	GEHAEUSEUNTERTEIL	646	77.354.2435.1		645
76.342.6435.1	05	725	77.330.2435.1	GEHAEUSEUNTERTEIL		77.354.2435.2		645
76.343.4035.0 76.343.4035.1	GEHAEUSEUNTERTEIL	725 725	77.331.1035.0 77.331.1035.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL		77.354.2435.3 77.372.1035.0	GEHAEUSEOBERTEIL	645 735
76.343.6435.0	GEHAEUSEUNTERTEIL	725	77.331.1635.0	GEHAEUSEUNTERTEIL		77.372.1035.3	GENALOSCODENTEIL	735
76.343.6435.1		725	77.331.1635.1	GEHAEUSEUNTERTEIL	646	77.372.1635.0	GEHAEUSEOBERTEIL	735
76.344.4035.0	GEHAEUSEUNTERTEIL	635	77.331.2435.0	GEHAEUSEUNTERTEIL		77.372.1635.3		735
76.344.4035.1 76.344.6435.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 635 ■ 635	77.331.2435.1 77.333.1035.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL		77.374.2435.0 77.374.2435.3	GEHAEUSEOBERTEIL	735 735
76.344.6435.1	GEHAEUSEUNTERTEIL	635	77.333.1035.1	GEHAEUSEUNTERTEIL		77.940.1053.0	ADA.I.GEH.BU.10WL	669
76.345.4035.0	GEHAEUSEUNTERTEIL	635	77.333.1635.0	GEHAEUSEUNTERTEIL	647	77.940.1053.4		669
76.345.4035.1	GEHAEUSEUNTERTEIL	635	77.333.1635.1	GEHAEUSEUNTERTEIL		77.940.1653.0	ADA.I.GEH.BU.16WL	669
76.345.6435.0 76.345.6435.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	■ 635 ■ 635	77.333.2435.0 77.333.2435.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL		77.940.1653.4 77.940.2453.0	ADA.I.GEH.BU.24WL	■ 669 ■ 669
76.346.4035.0	GEHAEUSEUNTERTEIL	635	77.340.1035.0	GEHAEUSEUNTERTEIL		77.940.2453.4	GET.BOLETITE	669
76.346.4035.1	GEHAEUSEUNTERTEIL	635	77.340.1035.1	GEHAEUSEUNTERTEIL	647	77.945.1053.0	ADA.I.GEH.BU.10WR	669
76.346.6435.0	GEHAEUSEUNTERTEIL	635	77.340.1635.0	GEHAEUSEUNTERTEIL		77.945.1053.4	ADA LOCULDU 40MD	669
76.346.6435.1 76.347.4035.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL	635 635	77.340.1635.1 77.340.2435.0	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL		77.945.1653.0 77.945.1653.4	ADA.I.GEH.BU.16WR	■ 669 ■ 669
76.347.4035.1	GEHAEUSEUNTERTEIL	635	77.340.2435.1	GEHAEUSEUNTERTEIL		77.945.2453.0	ADA.I.GEH.BU.24WR	669
76.347.6435.0	GEHAEUSEUNTERTEIL	635	77.341.1035.0	GEHAEUSEUNTERTEIL	647	77.945.2453.4		669
76.347.6435.1	GEHAEUSEUNTERTEIL	635	77.341.1035.1	GEHAEUSEUNTERTEIL	647	77.950.1053.0	ADA.I.GEH.ST.10WL	669
76.350.0736.0 76.350.0736.1	GEHAEUSEOBERTEIL GEHAEUSEOBERTEIL	713 713	77.341.1635.0 77.341.1635.1	GEHAEUSEUNTERTEIL GEHAEUSEUNTERTEIL		77.950.1053.4 77.950.1653.0	ADA.I.GEH.ST.16WL	■ 669 ■ 669
76.350.0736.1	GEHAEUSEOBERTEIL	713	77.341.1635.1	GEHAEUSEUNTERTEIL		77.950.1653.0	ADA.I.DETI.OT. TOWL	669
76.350.1535.0	GEHAEUSEOBERTEIL	721	77.341.2435.1	GEHAEUSEUNTERTEIL	647	77.950.2453.0	ADA.I.GEH.ST.24WL	669
76.350.1535.2	GEHAEUSEOBERTEIL	721	77.342.1035.0	GEHAEUSEUNTERTEIL	647	77.950.2453.4		669

Part									
7 7 665 000543	Part no.	Туре	section / page	Part no.	Type	section / page	Part no.	Туре	section / page
7 7 665 00543	77.955.1053.0	ADA.I.GEH.ST.10WR	669	81.000.6031.0	WIPOS 24VDC/5,0A 1PH H	5 20	87.090.0053.0	WEB1001 LEERG.B9	587
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	77.955.1053.4	1011051105110	669	81.000.6040.0	WIPOS 24VDC/10A 1PH V	519		TMS-101-250V5A	539
1.50 1.50		ADA.I.GEH.ST.TbWR							
MODEL MODE	77.955.2453.0	ADA.I.GEH.ST.24WR	669	81.000.6051.0	WIPOS 24VDC/20A 1PH H	521	87.200.2202.3	BUCHSE D-SUB 25	560
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80.060.0010.1 DIPOS FT100	80.060.0000.1	DIPOS UMC 12,5	582	83.035.4010.1	RICOS 4AI / 20MA	426	90.800.1055.8	319 / 13.5 K ELFB.	182
80.060.001.1.1 DIPOS KTD									
80.060.0021.1 DIPOS TC 500 83.035.411.1 RICOS ANIANO / 20MA 427 93.001.1055.0 ST28/10 BV/0 219 80.060.0030.1 DIPOS TC 500 83.035.5000.1 RICOS ANIANO / 427 93.002.1055.0 ST28/10 SV/0 219 80.060.1000.1 PIPOS TC 500 83.035.5000.1 RICOS ANIANO / 427 93.003.1055.0 ST28/10 SV/0 219 80.060.1000.1 582 83.035.5000.1 RICOS ANIANO / 420MA 417 93.004.0056.0 RSV 2 GRAU 207 80.060.1000.1 582 83.035.5000.1 RICOS ANIANO / 417 93.004.0056.0 RSV 2 GRAU 207 80.060.2000.1 583 83.035.5400.1 RICOS ANIELAY 418 93.004.0056.6 RSV 2 GRAU 207 80.060.2000.1 583 83.035.5400.1 RICOS COUNTER 422 93.031.2055.0 ST25/5 BV/0 218 80.061.0010.3 dipos EM 582 83.035.5041.1 RICOS COUNTER 422 93.032.2055.0 ST25/5 BV/0 218 80.061.0010.3 dipos EM 582 83.039.0000.0 RICOS PV-A 416 93.032.2455.0 ST25/5 SV/0 218 80.061.2010.3 583 83.035.5410.1 RICOS COUNTER 422 93.032.2055.0 ST25/5 SV/0 218 80.061.2010.3 444 86.010.0053.0 WEB1001 LEERG B1 584 95.000.0006.0 ST29/10 SV/0 205 80.063.4001.1 444 86.020.0053.0 WEB1001 LEERG B1 584 95.000.0006.0 ST29/10 SV/0 80.063.4001.1 444 86.030.0053.0 WEB1001 LEERG B3 585 95.000.0008.0 RICOS PV-A 416 93.032.2455.0 ST29/10 SV/0 205 80.063.4002.1 444 86.030.0653.0 WEB1001 LEERG B3 585 95.000.0008.0 RICOS PV-A 80.063.4021.1 444 86.030.0653.0 WEB1001 LEERG B3 585 95.000.00007.0 801 801 80.063.4025.1 444 86.030.0653.0 WEB1001 LEERG B3 585 95.000.0008.0 RICOS PV-A 80.063.4025.1 444 86.030.0653.0 WEB1001 LEERG B4 585 95.101.0800.0 GRUNDZANGE 291 80.063.4021.1 444 87.010.2053.0 SSM-7E230V 541 95.101.0800.0 GRUNDZANGE 798 80.063.4021.1 444 87.010.2053.0 SSM-7E230V 541 95.101.0800.0 GRUNDZANGE 798 80.063.4031.1 444 87.010.7653.0 SSM-7E230V 541 95.101.0800.0 GRUNDZANGE 798 80.063.4031.1 444 87.010.7653.0 SSM-7E230V 541 95.101.0800.0 GRUNDZANGE 798 80.063.4031.1 444 87.010.7653.0 SSM-7E230V 541 95.101.0800.0 GRUNDZANGE 798 80.063.4031.1 444 87.010.2053.0 SSM-7E230V 541 95.101.0800.0 GRUNDZANGE 798 80.063.4031.1 444 87.010.7653.0 SSM-7E230V 550V 451 95.001.0800.0 GRUNDZANGE 799 80.063.4031.1 444 87.010.7653.0 SSM-7E230V 550V 451 95.500.00									
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80.060.1001.1	80.060.0031.1		500	83.035.5000.1	RICOS 4I AC 115V	417	93.003.1055.0	ST28/10 BS/V0	219
80.060.2000.1 80.060.2001.1 80.061.0010.3 80.061.0010.3 dipos EM 80.061.0010.3 dipos EM 80.061.0010.3 80.061.1010.3 80.061.0010.									
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80.061.1010.3					RICOS POSITION				
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80.063.4009.1			583	83.039.0000.1	111000 1111	418	93.102.0055.0		
80.063.4023.1									
80.063.4025.1									
80.063.4026.1									
80.063.4029.3 FLARE MOVE BZ SERIE 38									
80.063.4031.1		FLARE MOVE BZ SERIE 38	444	87.010.2053.0	SSM-7E230V	541	95.101.0800.0	GRUNDZANGE	798
80.063.4032.0									
80.063.4032.1						584			
80.063.4034.1	80.063.4032.1		444	87.030.0053.0	WEB1001 LEERG B3	585	95.101.1200.0	PRESSWERKZEUG	799
80.063.4129.3 FLARE MOVE BM SERIE 38									
81.000.3000.0 WRS-T115/230-300M	80.063.4129.3		444	87.030.6453.0	DSU-400V-250V4A	542	95.502.0100.0		49
81.000.3010.0 WPS-115/230-24V1A								THE CHECTIET O SE	
81.000.6010.0 WIPOS 24VDC/2,0A 1PH V 518 87.070.0053.0 WEB1001 LEERG.B7 586 95.502.0150.0 49									
81.000.6030.0 WIPUS 24VDC/5,0A 1PH V 1 518 87.080.0053.0 WEB1001 LEERG.88 5 87 95.502.0170.0 4 9	81.000.6010.0	WIPOS 24VDC/2,0A 1PH V	518	87.070.0053.0	WEB1001 LEERG.B7	586	95.502.0150.0		49
	81.000.6030.0	WIPUS 24VDC/5,0A 1PH V	518	87.080.0053.0	WEBTUUT LEERG.B8	b 8/	95.502.0170.0		49

Part no.	Type	section / page	Part no.	Type	section / page	Part no.	Туре	section / page
95.502.0197.0		4 9	99.234.9996.1	8213 S / 4 G OB GR OF	297	Z1.299.6153.0	PRUEFSTECKER VER.	1 76
95.502.0198.0		49	99.235.9996.1	8213 S / 5 G OB GR OF	297	Z1.299.7153.0	PRUEFSTECKER	189
95.502.0199.0		49	99.236.9996.1	8213 S / 6 G OB GR OF	297	Z1.299.8153.0	PRUEFSTECKER	176
95.502.0230.0		49	99.237.9996.1	8213 S / 7 G OB GR OF	297	Z1.299.9053.0	FUER WK 4E/U	176
95.502.0234.0		49	99.238.9996.1	8213 S / 8 G OB GR OF	297	Z1.299.9253.0	PST1-WK4	177
95.502.0270.0 95.502.0274.0		49 49	99.239.3564.7 99.239.9996.1	9526832 8213 S / 9 G OB GR OF	385 297	Z1.299.9453.0 Z1.299.9553.0	PST1-WK4 MN PST10-WK4	177 177
95.502.0425.0		49	99.240.9996.1	8213 S / 10 G OB GR OF	297	Z1.299.9753.0	13110-4414	177
95.502.0435.0		49	99.241.9996.1	8213 S / 11 G OB GR OF	297	Z1.980.0040.0	SCHIENENTRAEGER	211
95.502.0450.0		49	99.242.9996.1	8213 S / 12 G OB GR OF	297	Z1.980.0153.0	N SH/35/F	213
95.502.0470.0		49	99.243.3564.7	9526826	385	Z1.990.2030.0	TRAGBOCK	215
95.502.0602.0 95.502.0621.0		49 49	99.243.9996.1 99.244.9996.1	8213 S / 13 G OB GR OF 8213 S / 14 G OB GR OF	297 297	Z2.123.7000.0 Z2.123.7100.0	MAGAZIN M. 25 BU. MAGAZIN M. 25 BU.	■ 800 ■ 800
95.502.0622.0		49	99.245.9996.1	8213 S / 15 G OB GR OF	297	Z2.123.7100.0 Z2.123.7200.0	MAGAZIN M. 25 BU.	800
95.502.0623.0		49	99.246.9996.1	8213 S / 16 G OB GR OF	297	Z2.123.7300.0	MAGAZIN M. 25 BU.	800
95.502.0624.0		49	99.259.3564.7	9526833	385	Z2.123.7400.0	MAGAZ.M.25 BUCHS.	■ 800
98.060.0000.0	1039 M	263	99.261.3521.9	EUROPAKLEMMLST.1P	258	Z2.220.0121.0	FKK18 / 1 Z	217
98.090.0000.0	9021/15X5,5EN60715	171 802	99.262.3521.9	6E SONDERA.	258 299	Z2.220.0321.0	FKK18 / 2 Z	217 217
98.090.0000.0 98.090.0015.0	9021/15X5,5EN60715 9021/15X5,5EN60715	802 40	99.262.9996.0 99.263.3521.9	8113 S / 2 W OB GR OF 6E SONDERA.	258	Z2.220.0421.0 Z2.302.0421.0	FKK18 / 3 Z / 70 E S35	111
98.090.0015.0	9021/15X5,5EN60715	802	99.263.9996.0	8113 S / 3 W OB GR OF	299	Z2.302.0621.0	9700 A / 35 E S35	111
98.095.3000.0	,,	802	99.264.3521.9	6E SONDERA.	258	Z2.302.1321.0	9700 / 10 E / 1	211
98.190.0000.0	9006 EN 60715 - G 32	102	99.264.9996.0	8113 S / 4 W OB GR OF	299	Z2.803.0228.0	,0 BIS 11,0 MM	210
98.190.0000.0	9006 EN 60715 - G 32	584	99.265.3521.9	6E SONDERA.	258	Z2.803.0328.0	,5 BIS 13,5 MM	210
98.190.0000.0	9006 EN 60715 - G 32	802	99.265.9996.0	8113 S / 5 W OB GR OF	299	Z2.803.0428.0	2,5 BIS 16,5 MM	210
98.190.1000.0 98.190.1000.0	9006 GELOCHT 9006 GELOCHT	171 802	99.266.3521.9 99.266.9996.0	6E SONDERA. 8113 S / 6 W OB GR OF	258 299	Z2.803.1328.0 Z2.803.1428.0	,5 BIS 6,5 MM ,0 BIS 11,0 MM	212 212
98.210.0000.0	9006 AL 32	171	99.267.3521.9	6E SONDERA.	258	Z2.803.1528.0	0,0 BIS 17,0 MM	212
98.210.0000.0	9006 AL 32	802	99.267.9996.0	8113 S / 7 W OB GR OF	299	Z2.803.1628.0	16,0 BIS 24,0 MM	212
98.220.0000.0	9006 CU EN 60715 - G 32	110	99.268.3521.9	6E SONDERA.	258	Z2.803.2228.0	K 15,5 - 20,5	210
98.220.0000.0	9006 CU EN 60715 - G 32	802	99.268.9996.0	8113 S / 8 W OB GR OF	299	Z2.803.2328.0	K 19 - 27	210
98.290.0000.0	9813 M 10X 3 1000MM	72	99.269.3521.9	0110 0 / 0 W 00 00 05	258	Z2.803.2428.0	K 26 - 34	210
98.290.1000.0 98.291.1000.0	9813 M SN 10X3 1000MM 18 X 3 M SN 1000MM	24 213	99.269.9996.0 99.270.3521.9	8113 S / 9 W OB GR OF 6E SONDERA.	299 258	Z4.102.0480.0 Z4.102.0680.0	BZ KL 16 / 4 Z BZ KL 16 / 6 Z	256 256
98.300.0000.0	35X27X7,5 EN 60715 2M	20	99.270.3521.9	8113 S / 10 W OB GR OF	299	Z4.102.0880.0 Z4.102.0880.0	BZ KL 16 / 8 Z	256
98.300.0000.0	35X27X7,5 EN 60715 2M	308	99.271.9996.0	8113 S / 11 W OB GR OF	299	Z4.102.1280.0	BZ KL 16 / 12 Z	256
98.300.0000.0	35X27X7,5 EN 60715 2M	584	99.272.3521.9	W.NR.07060796 6E SONDER	258	Z4.102.1680.0	BZ KL 16 / 16 Z	256
98.300.0000.0	35X27X7,5 EN 60715 2M	803	99.272.9996.0	8113 S / 12 W OB GR OF	299	Z4.102.2080.0	BZ KL 16 / 20 Z	256
98.300.0010.0	35x27x7,5 EN60715 BLANK	46	99.273.9996.0	8113 S / 13 W OB GR OF	299	Z4.210.0652.0	BEZ.KLAPPSCHILD	183
98.300.1000.0	35X27X 7,5 GELOCHT	19	99.274.9996.0	8113 S / 14 W OB GR OF	299	Z4.210.1652.0	BEZ.KLAPPSCHILD	183
98.300.1000.0 98.305.1000.0	35X27X 7,5 GELOCHT 35X27X7,5 EN 60715 1M	■ 803 ■ 803	99.275.9996.0 99.276.9996.0	8113 S / 15 W OB GR OF 8113 S / 16 W OB GR OF	299 299	Z4.242.3753.0 Z4.242.4053.0	BEZ.SCHILDTRAEGER BEZ.SCHILDTRAEGER	781 781
98.310.0000.0	TRAGSCHIENE 2M	215	99.483.0000.0	0113 3 / 10 W OB GIT OF	388	Z4.242.5053.0	9705 A / 5 /10/11MARCOM	
98.320.0000.0	6 X 6 2000MM	216	99.700.0000.6	STVB. KOMPLETT	672	Z4.242.5153.0	9705 AL/ 5 /10/ 6MARCOM	49
98.325.1000.0	6 X 6 1000MM	216	99.700.3329.7	GEHAEUSEUNTERTEIL	773	Z4.242.5153.0	9705 AL/ 5 /10/ 6MARCOM	442
98.360.0000.0	35 X 24 X 15 EN 60715	20	99.700.6905.5	BUCHSENTEIL	760	Z4.242.6053.0	9705 A / 6 /10/11MARCOM	
98.360.0000.0	35 X 24 X 15 EN 60715	308 584	99.701.0000.6	STVB. KOMPLETT	672	Z4.242.6153.0		179
98.360.0000.0 98.360.0000.0	35 X 24 X 15 EN 60715 35 X 24 X 15 EN 60715	584 803	99.701.3329.7 99.701.6905.5	GEHAEUSEOBERTEIL STECKERTEIL	772 760	Z4.242.6353.0 Z4.242.6753.0		90 49
98.360.0004.0	35x24x15 EN 60715 FZN	46	99.702.0000.6	STVB. KOMPLETT	672	Z4.242.6853.0		49
98.370.0000.0	35 X 27 X 15	38	99.702.3329.7	GEHAEUSEUNTERTEIL	773	Z4.242.8053.0		49
98.370.0000.0	35 X 27 X 15	803	99.703.0000.6	STVB. KOMPLETT	672	Z4.243.8453.0		47
98.370.1000.0	35 X 27 X 15 GELOCHT 2M	46	99.703.3329.7	GEHAEUSEOBERTEIL	772	Z4.802.0480.0	BZ KL 16 / 4 Z B	256
98.370.1000.0 98.375.1000.0	35 X 27 X 15 GELOCHT 2M 35 X 27 X 15 GELOCHT 1M	■ 803 ■ 803	99.704.3329.7 99.705.3329.7	GEHAEUSEUNTERTEIL GEHAEUSEOBERTEIL	773 772	Z4.802.2080.0 Z5.507.1321.0	BZ KL 16 / 20 Z B KABELVERSCHRB.	256 776
98.380.0000.0	35X24X15 EN60715 CU	47	99.706.0000.6	STVB. KOMPLETT	672	Z5.507.1353.0	M 20 x 1,5 IP68	776
98.380.0000.0	35X24X15 EN60715 CU	803	99.706.3329.7	GEHAEUSEUNTERTEIL	773	Z5.507.1453.1	W 20 X 1,0 H 00	758
98.400.0000.0	ANKERSCHIENE 2M	210	99.707.0000.6	STVB. KOMPLETT	672	Z5.507.1521.0	KABELVERSCHRB.	776
99.000.0920.8	9705A/6,7/ 12 B 1- 9	790	99.707.3329.7	GEHAEUSEOBERTEIL	772	Z5.507.1553.0	M 25x1,5 IP68	776
99.002.0920.8	9705A/6,7/2X 6 B 1- 6	790	99.708.0000.6	STVB. KOMPLETT	672	Z5.507.1553.1	I/ADELVEDOCUDD	758
99.003.0920.8 99.004.0920.8	9705A/6,7/ 12 B 1-10 9705A/6,7/2X12 B 1-16	790 790	99.709.0000.6 99.710.3329.7	STVB. KOMPLETT GEHAEUSEOBERTEIL	672 773	Z5.507.1721.0 Z5.507.1753.0	KABELVERSCHRB. M 32 x 1,5 IP68	■ 776 ■ 776
99.005.0920.8	9705A/6,7/2X12 B 1-10	790	99.711.3329.7	GEHAEUSEOBERTEIL	773	Z5.507.1753.0 Z5.507.1921.0	M 40 x 1,5 IP68	776
99.202.9996.0	8113 S / 2 G OB GR OF	297	99.713.3329.7	GEHAEUSEOBERTEIL	773	Z5.507.1953.0	M 40x1,5 IP68	776
99.202.9996.2	8213 S / 2 W OB GR OF	299	99.716.3329.7	GEHAEUSEOBERTEIL	773	Z5.507.2121.0	M 16 x 1,5	776
99.203.9996.0	8113 S / 3 G OB GR OF	297	99.718.0000.6	STVB. KOMPLETT	672	Z5.507.2221.0	M 20 x 1,5	776
99.203.9996.2 99.204.9996.0	8213 S / 3 W OB GR OF 8113 S / 4 G OB GR OF	299 297	99.719.0000.6 99.720.0000.6	STVB. KOMPLETT STVB. KOMPLETT	■ 672 ■ 672	Z5.507.2321.0 Z5.507.2421.0	M 25 x 1,5 M 32 x 1,5	■ 776 ■ 776
99.204.9996.2	8213 S / 4 W OB GR OF	299	99.721.0000.6	STVB. KOMPLETT	672	Z5.507.2421.0 Z5.507.4821.0	M 20 x 1,5	777
99.205.9996.0	8113 S / 5 G OB GR OF	297	99.721.3329.7	F.EIGSICH.ANL.ZINKDRCKG	772	Z5.507.5021.0	M25 x 1,5	777
99.205.9996.2	8213 S / 5 W OB GR OF	299	99.723.3329.7	F.EIGSICH.ANL.ZINKDRCKG	772	Z5.507.5221.0	M 32 x 1,5	777
99.206.9996.0	8113 S / 6 G OB GR OF	297	99.724.0000.6		672	Z5.507.5821.0	M 20 x 1,5	777
99.206.9996.2	8213 S / 6 W OB GR OF	299	99.725.0000.6	STVB. KOMPLETT	672	Z5.507.6021.0	M 25 x 1,5	777
99.207.9996.0	8113 S / 7 G OB GR OF	297	99.726.0000.6	STVB. KOMPLETT	672	Z5.507.6221.0	M 32 x 1,5	777
99.207.9996.2 99.208.9996.0	8213 S / 7 W OB GR OF 8113 S / 8 G OB GR OF	299 297	99.727.0000.6 99.727.3329.7	STVB. KOMPLETT F.EIGSICH.ANL.ZINKDRCKG	672 772	Z5.507.6421.0 Z5.507.9521.0	M 40 x 1,5 M 16 x 1,5	■ 777 ■ 777
99.208.9996.2	8213 S / 8 W OB GR OF	299	99.801.3900.9	40 DC24V 2A	538	Z5.507.9621.0	M 20 x 1,5	777
99.209.9996.0	8113 S / 9 G OB GR OF	297	Z1.000.4753.0	SR - I 5	485	Z5.507.9721.0	M 25 x 1,5	777
99.209.9996.2	8213 S / 9 W OB GR OF	299	Z1.000.9153.0	SR - A 4	485	Z5.507.9821.0	M 32 x 1,5	777
99.210.9996.0	8113 S / 10 G OB GR OF	297	Z1.108.8453.0	WIEDOV ON 40 OW	24	Z5.515.3310.0	WE SH 1/35	212
99.210.9996.2 99.211.9996.0	8213 S / 10 W OB GR OF 8113 S / 11 G OB GR OF	299 297	Z1.296.3453.0 Z1.296.3553.0	WIEBOX CN 19 GKL WIEBOX CN 19 GK	594 594	Z5.515.3410.0 Z5.516.2511.0	WE SH 2/35 9018 D	212 169
99.211.9996.2	8213 S / 11 W OB GR OF	299	Z1.296.3553.0 Z1.296.3853.0	WIEBOX CN 19 GK WIEBOX CN 22 GKL	594	Z5.516.2511.0 Z5.516.2711.0	9018 H	169
99.212.9996.0	8113 S / 12 G OB GR OF	297	Z1.296.3953.0	WIEBOX CN 22 GK	594	Z5.516.2811.0	9018 N	169
99.212.9996.2	8213 S / 12 W OB GR OF	299	Z1.296.4253.0	WIEBOX CN 26 GKL	595	Z5.519.0310.0	SCHIENENHALTER	213
99.213.9996.0	8113 S / 13 G OB GR OF	297	Z1.296.4353.0	WIEBOX CN 26 GK	595	Z5.519.0410.0	SCHIENENHALTER	213
99.213.9996.2	8213 S / 13 W OB GR OF	299	Z1.299.3053.0	DICT A/O	243	Z5.522.1923.0	2163	215
99.214.9996.0 99.214.9996.2	8113 S / 14 GOF OB 8213 S / 14 W OB GR OF	297 299	Z1.299.3055.0 Z1.299.3155.0	DIST /V0 DIST-1N 4007 -1 /V0	38	Z5.522.5010.0 Z5.522.7053.0	9222 9708	40 102
99.215.9996.0	8113 S / 15 G OB GR OF	299 297	Z1.299.3155.0 Z1.299.3255.0	DIST-IN 4007 -1 /V0	38	Z5.522.7053.0 Z5.522.7553.0	9208 / S15	40
99.215.9996.2	8213 S / 15 W OB GR OF	299	Z1.299.3355.0	DIST-1N 4007 -2 /V0	38	Z5.522.8553.0	9708 / 2 S 35	19
99.216.9996.0	8113 S / 16 G OB GR OF	297	Z1.299.4053.0		231	Z5.522.8553.0	9708 / 2 S 35	308
99.216.9996.2	8213 S / 16 W OB GR OF	299	Z1.299.4055.0	SIST /V0	38	Z5.522.8553.0	9708 / 2 S 35	410
99.232.9996.1	8213 S / 2 G OB GR OF	297	Z1.299.4155.0	SIST-LED /VO	38	Z5.523.2453.0	BEF.HALTER	297
99.233.9996.1	8213 S / 3 G OB GR OF	297	Z1.299.4255.0	SIST- GL /V0	38	Z5.523.5153.0	9708 / 3 S35	173
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Part no.	Туре	section / page	Part no.	Туре	section / page	Part no.	Туре	section / pag
Z5.523.5653.0	WE 2/U	105	Z5.532.1525.0	LP.STIFTLEISTE	317	Z5.543.0253.0	PRUEFSTECKER	358
Z5.523.5753.0	WE 1/U	101	Z5.532.1625.0 Z5.532.3225.0	LP.STIFTLEISTE	317	Z5.543.7000.0	MAGAZIN M. 25 ST.	800
Z5.523.5753.0 Z5.523.7653.0	WE 1/U BEFEST.HALT.KOMPL	584 319	Z5.532.3225.0 Z5.532.3325.0	LP.STIFTLEISTE LP.STIFTLEISTE	317 317	Z5.543.7100.0 Z5.543.7200.0	MAGAZIN M. 25 ST. MAGAZIN M. 25 ST.	■ 800 ■ 800
Z5.523.7753.0	BEF.HALTER	295	Z5.532.3425.0	LP.STIFTLEISTE	317	Z5.543.7300.0	MAGAZIN M. 25 ST.	800
Z5.523.7853.0 Z5.523.9353.0	BEF.HALTER WEF 1/35	295 20	Z5.532.3525.0 Z5.532.3625.0	LP.STIFTLEISTE LP.STIFTLEISTE	317 317	Z5.543.7400.0 Z5.553.2921.0	MAGAZIN M. 25 ST. ST 2 / 2.3 ROT	800 19
Z5.523.9353.0 Z5.523.9353.0	WEF 1/35	308	Z5.532.3725.0	LP.STIFTLEISTE	317	Z5.553.2921.0 Z5.553.2921.0	ST 2 / 2.3 ROT	353
Z5.530.0225.0	LP.STIFTLEISTE	318	Z5.532.3825.0	LP.STIFTLEISTE	317	Z5.553.3021.0	ST 2 / 4 SCHWARZ	176
Z5.530.0325.0 Z5.530.0425.0	LP.STIFTLEISTE LP.STIFTLEISTE	318 318	Z5.532.3925.0 Z5.532.4025.0	LP.STIFTLEISTE LP.STIFTLEISTE	317 317	Z5.553.9400.0 Z5.563.0453.0	KURZSCHLUSSTECKER DIPOS KODIERAST	176 499
Z5.530.0525.0	LP.STIFTLEISTE	318	Z5.532.4125.0	LP.STIFTLEISTE	317	Z5.570.0056.0	BU 70.3 /16 REVZ	675
Z5.530.0625.0 Z5.530.0725.0	LP.STIFTLEISTE LP.STIFTLEISTE	318 318	Z5.532.4225.0 Z5.532.4325.0	LP.STIFTLEISTE LP.STIFTLEISTE	317 317	Z5.570.0156.0 Z5.570.0256.0	BU 70.3 / 6 REVZ BU 70.3 /10 REVZ	675 675
Z5.530.0725.0 Z5.530.0825.0	LP.STIFTLEISTE	318	Z5.532.4425.0	LP.STIFTLEISTE	317	Z5.570.0256.0 Z5.570.0356.0	BU 70.3 /24 REVZ	675
Z5.530.0925.0	LP.STIFTLEISTE	318	Z5.532.4525.0	LP.STIFTLEISTE	317	Z5.570.0556.0	BU 72.3 /16 REVZ	679
Z5.530.1025.0 Z5.530.1125.0	LP.STIFTLEISTE LP.STIFTLEISTE	318 318	Z5.532.4625.0 Z5.533.7121.0	LP.STIFTLEISTE PRUEFSTECKER	317 357	Z5.570.0656.0 Z5.570.0756.0	BU 72.3 / 6 REVZ BU 72.3 /10 REVZ	679 679
Z5.530.1225.0	LP.STIFTLEISTE	318	Z5.533.7221.0	PRUEFSTECKER	357	Z5.570.0856.0	BU 72.3 /24 REVZ	679
Z5.530.1325.0	LP.STIFTLEISTE	318	Z5.533.8221.0	STECKERLEISTE	357 324	Z5.570.1056.0	BU 70.3 /16 REV	675
Z5.530.1425.0 Z5.530.1525.0	LP.STIFTLEISTE LP.STIFTLEISTE	318 318	Z5.535.0225.0 Z5.535.0325.0	8520 S / 2 G 0,8 8520 S / 3 G 0,8	324	Z5.570.1156.0 Z5.570.1256.0	BU 70.3 / 6 REV BU 70.3 /10 REV	■ 675 ■ 675
Z5.530.1625.0	LP.STIFTLEISTE	318	Z5.535.0425.0	8520 S / 4 G 0,8	324	Z5.570.1356.0	BU 70,3 /24 REV	675
Z5.530.3225.0 Z5.530.3325.0	LP.STIFTLEISTE LP.STIFTLEISTE	318 318	Z5.535.0525.0 Z5.535.0625.0	8520 S / 5 G 0,8 8520 S / 6 G 0,8	324 324	Z5.570.1556.0 Z5.570.1656.0	BU 72.3 /16 REV BU 72.3 / 6 REV	■ 679 ■ 679
Z5.530.3425.0	LP.STIFTLEISTE	318	Z5.535.0725.0	8520 S / 7 G 0,8	324	Z5.570.1756.0	BU 72.3 / 10 REV	679
Z5.530.3525.0	LP.STIFTLEISTE	318	Z5.535.0825.0	8520 S / 8 G 0,8	324	Z5.570.1856.0	BU 72.3 /24 REV	679
Z5.530.3625.0 Z5.530.3725.0	LP.STIFTLEISTE LP.STIFTLEISTE	318 318	Z5.535.0925.0 Z5.535.1025.0	8520 S / 10 G 0,8	324 324	Z5.570.2056.0 Z5.570.2156.0	BU 70.3 /16 RVZ BU 70.3 / 6 RVZ	675 675
Z5.530.3825.0	LP.STIFTLEISTE	318	Z5.535.1125.0	8520 S / 11 G 0,8	324	Z5.570.2256.0	BU 70.3 /10 RVZ	675
Z5.530.3925.0 Z5.530.4025.0	LP.STIFTLEISTE LP.STIFTLEISTE	318 318	Z5.535.1225.0 Z5.535.1325.0	8520 S / 12 G 0,8 8520 S / 13 G 0,8	324 324	Z5.570.2356.0 Z5.570.2556.0	BU 70.3 /24 RVZ BU 72.3 /16 RVZ	675 679
Z5.530.4025.0 Z5.530.4125.0	LP.STIFTLEISTE	318	Z5.535.1325.0 Z5.535.1425.0	8520 S / 14 G 0,8	324	Z5.570.2656.0	BU 72.3 / 6 RVZ	679
Z5.530.4225.0	LP.STIFTLEISTE	318	Z5.535.1525.0	8520 S / 15 G 0,8	324	Z5.570.2756.0	BU 72.3 /10 RVZ	679
Z5.530.4325.0 Z5.530.4425.0	LP.STIFTLEISTE LP.STIFTLEISTE	318 318	Z5.535.1625.0 Z5.535.3225.0	8520 S / 16 G 0,8 8520 S / 2 G 1,0	324 324	Z5.570.2856.0 Z5.570.3056.0	BU 72.3 /24 RVZ BU 70.3 /16 RV	679 675
Z5.530.4525.0	LP.STIFTLEISTE	318	Z5.535.3325.0	8520 S / 3 G 1,0	324	Z5.570.3156.0	BU 70.3 / 6 RV	675
Z5.530.4625.0 Z5.530.6225.0	LP.STIFTLEISTE LP.STIFTLEISTE	318 318	Z5.535.3425.0 Z5.535.3525.0	8520 S / 4 G 1,0 8520 S / 5 G 1,0	324 324	Z5.570.3256.0 Z5.570.3356.0	BU 70.3 /10 RV	675 675
Z5.530.6225.0 Z5.530.6325.0	LP.STIFTLEISTE	318 318	Z5.535.3625.0 Z5.535.3625.0	8520 S / 6 G 1,0	324	Z5.570.3556.0 Z5.570.3556.0	BU 70.3 /24 RV BU 72.3 /16 RV	679
Z5.530.6425.0	LP.STIFTLEISTE	318	Z5.535.3725.0	8520 S / 7 G 1,0	324	Z5.570.3656.0	BU 72.3 / 6 RV	679
Z5.530.6525.0 Z5.530.6625.0	LP.STIFTLEISTE LP.STIFTLEISTE	318 318	Z5.535.3825.0 Z5.535.3925.0	8520 S / 8 G 1.0	324 324	Z5.570.3756.0 Z5.570.3856.0	BU 72.3 /10 RV BU 72.3 /24 RV	■ 679 ■ 679
Z5.530.6725.0	LP.STIFTLEISTE	318	Z5.535.4025.0	8520 S / 10 G 1,0	324	Z5.570.4056.0	BU 70.7 /16 REVZ	677
Z5.530.6825.0	LP.STIFTLEISTE	318	Z5.535.4125.0	8520 S / 11 G 1,0	324	Z5.570.4156.0	BU 70.7 / 6 REVZ	677
Z5.530.8225.0 Z5.530.8325.0	LP.STIFTLEISTE LP.STIFTLEISTE	318 318	Z5.535.4225.0 Z5.535.4325.0	8520 S / 12 G 1,0 8520 S / 13 G 1,0	324 324	Z5.570.4256.0 Z5.570.4356.0	BU 70.7 /10 REVZ BU 70.7 /24 REVZ	677 677
Z5.530.8425.0	LP.STIFTLEISTE	318	Z5.535.4425.0	8520 S / 14 G 1,0	324	Z5.570.4556.0	BU 72.7 /16 REVZ	681
Z5.530.8525.0 Z5.530.8625.0	LP.STIFTLEISTE LP.STIFTLEISTE	318 318	Z5.535.4525.0 Z5.535.4625.0	8520 S / 15 G 1,0 8520 S / 16 G 1,0	324 324	Z5.570.4656.0 Z5.570.4756.0	BU 72.7 / 6 REVZ BU 72.7 /10 REVZ	■ 681 ■ 681
Z5.530.8725.0	LP.STIFTLEISTE	318	Z5.540.0225.0	LP.STIFTLEISTE	319	Z5.570.4756.0 Z5.570.4856.0	BU 72.7 /24 REVZ	681
Z5.530.8825.0	LP.STIFTLEISTE	318	Z5.540.0325.0	LP.STIFTLEISTE	319	Z5.570.5056.0	BU 70.7 /16 REV	677
Z5.531.0225.0 Z5.531.0325.0	LP.STIFTLEISTE LP.STIFTLEISTE	316 316	Z5.540.0425.0 Z5.540.0525.0	LP.STIFTLEISTE LP.STIFTLEISTE	319 319	Z5.570.5156.0 Z5.570.5256.0	BU 70.7 / 6 REV BU 70.7 /10 REV	677 677
Z5.531.0425.0	LP.STIFTLEISTE	316	Z5.540.0625.0	LP.STIFTLEISTE	319	Z5.570.5356.0	BU 70.7 /24 REV	677
Z5.531.0525.0 Z5.531.0625.0	LP.STIFTLEISTE LP.STIFTLEISTE	316 316	Z5.540.0725.0 Z5.540.0825.0	LP:STIFTLEISTE LP.STIFTLEISTE	319 319	Z5.570.5556.0 Z5.570.5656.0	BU 72.7 /16 REV BU 72.7 / 6 REV	681 681
Z5.531.0725.0	LP.STIFTLEISTE	316	Z5.540.0925.0	LP.STIFTLEISTE	319	Z5.570.5756.0	BU 72.7 /10 REV	681
Z5.531.0825.0	LP.STIFTLEISTE	316	Z5.540.1025.0	LP.STIFTLEISTE	319	Z5.570.5856.0	BU 72.7 /24 REV	681
Z5.531.0925.0 Z5.531.1025.0	LP.STIFTLEISTE LP.STIFTLEISTE	316 316	Z5.540.1125.0 Z5.540.1225.0	LP.STIFTLEISTE LP.STIFTLEISTE	319 319	Z5.570.6056.0 Z5.570.6156.0	BU 73.7 /40 REVZ BU 73.7 /64 REVZ	■ 683 ■ 683
Z5.531.1125.0	LP.STIFTLEISTE	316	Z5.540.1325.0	LP.STIFTLEISTE	319	Z5.570.6556.0	BU 70.7 /16 RVZ	677
Z5.531.1225.0 Z5.531.1325.0	LP.STIFTLEISTE LP.STIFTLEISTE	316 316	Z5.540.1425.0 Z5.540.1525.0	LP.STIFTLEISTE LP.STIFTLEISTE	319 319	Z5.570.6656.0 Z5.570.6756.0	BU 70.7 / 6 RVZ BU 70.7 /10 RVZ	677 677
Z5.531.1425.0	LP.STIFTLEISTE	316	Z5.540.1625.0	LP.STIFTLEISTE	319	Z5.570.6856.0	BU 70.7 /24 RVZ	677
Z5.531.1525.0	LP.STIFTLEISTE	316	Z5.540.3225.0	LP.STIFTLEISTE	319	Z5.570.7056.0	BU 73.7 /40 REV	683
Z5.531.1625.0 Z5.531.3225.0	LP.STIFTLEISTE LP.STIFTLEISTE	316 316	Z5.540.3325.0 Z5.540.3425.0	LP.STIFTLEISTE LP.STIFTLEISTE	319 319	Z5.570.7156.0 Z5.570.7556.0	BU 73.7 /64 REV BU 72.7 /16 RVZ	■ 683 ■ 681
Z5.531.3325.0	LP.STIFTLEISTE	316	Z5.540.3525.0	LP.STIFTLEISTE	319	Z5.570.7656.0	BU 72.7 / 6 RVZ	681
Z5.531.3425.0 Z5.531.3525.0	LP.STIFTLEISTE LP.STIFTLEISTE	316 316	Z5.540.3625.0 Z5.540.3725.0	LP.STIFTLEISTE LP.STIFTLEISTE	319 319	Z5.570.7756.0 Z5.570.7856.0	BU 72.7 /10 RVZ BU 72.7 /24 RVZ	■ 681 ■ 681
Z5.531.3625.0	LP.STIFTLEISTE	316	Z5.540.3825.0	LP.STIFTLEISTE	319	Z5.570.7856.0 Z5.570.8056.0	BU 73.7 /40 RVZ	683
Z5.531.3725.0	LP.STIFTLEISTE	316	Z5.540.3925.0	LP.STIFTLEISTE	319	Z5.570.8156.0	BU 73.7 /64 RVZ	683
Z5.531.3825.0 Z5.531.3925.0	LP.STIFTLEISTE LP.STIFTLEISTE	316 316	Z5.540.4025.0 Z5.540.4125.0	LP.STIFTLEISTE LP.STIFTLEISTE	319 319	Z5.570.8556.0 Z5.570.8656.0	BU 70.7 /16 RV BU 70.7 / 6 RV	677 677
Z5.531.4025.0	LP.STIFTLEISTE	316	Z5.540.4225.0	LP.STIFTLEISTE	319	Z5.570.8756.0	BU 70.7 /10 RV	677
Z5.531.4125.0 Z5.531.4225.0	LP.STIFTLEISTE LP.STIFTLEISTE	316 316	Z5.540.4325.0 Z5.540.4425.0	LP.STIFTLEISTE LP.STIFTLEISTE	319 319	Z5.570.8856.0 Z5.570.9056.0	BU 70.7 /24 RV BU 73.7 /40 RV	677 683
Z5.531.4325.0	LP.STIFTLEISTE	316 316	Z5.540.4525.0	LP.STIFTLEISTE	319	Z5.570.9050.0 Z5.570.9156.0	BU 73.7 /64 RV	683
Z5.531.4425.0	LP.STIFTLEISTE	316	Z5.540.4625.0	LP.STIFTLEISTE	319	Z5.570.9556.0	BU 72.7 /16 RV	681
Z5.531.4525.0 Z5.531.4625.0	LP.STIFTLEISTE LP.STIFTLEISTE	316 316	Z5.540.6225.0 Z5.540.6325.0	LP.STIFTLEISTE LP.STIFTLEISTE	319 319	Z5.570.9656.0 Z5.570.9756.0	BU 72.7 / 6 RV BU 72.7 /10 RV	681 681
Z5.532.0225.0	LP.STIFTLEISTE	317	Z5.540.6425.0	LP.STIFTLEISTE	319	Z5.570.9856.0	BU 72.7 /24 RV	681
Z5.532.0325.0	LP.STIFTLEISTE	317 317	Z5.540.6525.0	LP.STIFTLEISTE	319 319	Z5.571.0056.0	ST 70.3 /16 REVZ ST 70.3 / 6 REVZ	675 675
Z5.532.0425.0 Z5.532.0525.0	LP.STIFTLEISTE LP.STIFTLEISTE	317 317	Z5.540.6625.0 Z5.540.6725.0	LP.STIFTLEISTE LP.STIFTLEISTE	319 319	Z5.571.0156.0 Z5.571.0256.0	ST 70.3 / 10 REVZ ST 70.3 /10 REVZ	■ 675 ■ 675
Z5.532.0625.0	LP.STIFTLEISTE	317	Z5.540.6825.0	LP.STIFTLEISTE	319	Z5.571.0356.0	ST 70.3 /24 REVZ	675
Z5.532.0725.0 Z5.532.0825.0	LP.STIFTLEISTE LP.STIFTLEISTE	317 317	Z5.540.8225.0 Z5.540.8325.0	LP.STIFTLEISTE LP.STIFTLEISTE	319 319	Z5.571.0556.0 Z5.571.0656.0	ST 72.3 /16 REVZ ST 72.3 / 6 REVZ	■ 679 ■ 679
Z5.532.0925.0	LP.STIFTLEISTE	317	Z5.540.8425.0	LP.STIFTLEISTE	3 19	Z5.571.0056.0 Z5.571.0756.0	ST 72.3 /10 REVZ	679
Z5.532.1025.0	LP.STIFTLEISTE	317	Z5.540.8525.0	LP.STIFTLEISTE	319	Z5.571.0856.0	ST 72.3 /24 REVZ	679
Z5.532.1125.0 Z5.532.1225.0	LP.STIFTLEISTE LP.STIFTLEISTE	317 317	Z5.540.8625.0 Z5.540.8725.0	LP.STIFTLEISTE LP.STIFTLEISTE	319 319	Z5.571.1056.0 Z5.571.1156.0	ST 70.3 /16 REV ST 70.3 / 6 REV	■ 675 ■ 675
Z5.532.1325.0	LP.STIFTLEISTE	317	Z5.540.8825.0	LP.STIFTLEISTE	319	Z5.571.1256.0	ST 70.3 /10 REV	675
Z5.532.1425.0	LP.STIFTLEISTE	3 17	Z5.543.0153.0	PRUEFSTECKER	358	Z5.571.1356.0	ST 70,3 /24 REV	■ 675
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Part no.	Туре	section / page	Part no.	Type	section / page	Part no.	Туре	section / page
Z5.571.1556.0	ST 72.3 /16 REV	679	Z5.572.4356.0	BU 70.1 /24 REV U WL	675	Z5.573.6256.0	ST 70.1 /10 RV U WL	■ 675
Z5.571.1656.0	ST 72.3 / 6 REV	679	Z5.572.4556.0	BU 72.1 /16 REV U WL	679	Z5.573.6356.0	ST 70.1 /24 RV U WL	■ 675
Z5.571.1756.0	ST 72,3 /10 REV	679	Z5.572.4656.0	BU 72.1 / 6 REV U WL	679	Z5.573.6556.0	ST 72.1 /16 RV U WL	679
Z5.571.1856.0	ST 72.3 /24 REV	■ 679	Z5.572.4756.0	BU 72.1 /10 REV U WL	■ 679	Z5.573.6656.0	ST 72.1 / 6 RV U WL	679
Z5.571.2056.0	ST 70.3 /16 RVZ	■ 675	Z5.572.4856.0	BU 72.1 /24 REV U WL	■ 679	Z5.573.6756.0	ST 72.1 /10 RV U WL	679
Z5.571.2156.0	ST 70.3 / 6 RVZ	675	Z5.572.5056.0	BU 70.1 /16 REV U WR	675	Z5.573.6856.0	ST 72.1 /24 RV U WL	679
Z5.571.2256.0	ST 70.3 /10 RVZ	675	Z5.572.5156.0	BU 70.1 / 6 REV U WR	■ 675	Z5.573.7056.0	ST 70.1 /16 RV U WR	675
Z5.571.2356.0	ST 70.3 /24 RVZ	675	Z5.572.5256.0	BU 70.1 /10 REV U WR	■ 675	Z5.573.7156.0	ST 70.1 / 6 RV U WR	675
Z5.571.2556.0	ST 72.3 /16 RVZ	■ 679	Z5.572.5356.0	BU 70.1 /24 REV U WR	■ 675	Z5.573.7256.0	ST 70.1 /10 RV U WR	675
Z5.571.2656.0	ST 72.3 / 6 RVZ	■ 679	Z5.572.5556.0	BU 72.1 /16 REV U WR	■ 679	Z5.573.7356.0	ST 70.1 /24 RV U WR	675
Z5.571.2756.0	ST 72.3 /10 RVZ	679	Z5.572.5656.0	BU 72.1 / 6 REV U WR	679	Z5.573.7556.0	ST 72.1 /16 RV U WR	679
Z5.571.2856.0	ST 72.3 /24 RVZ	■ 679	Z5.572.5756.0	BU 72.1 /10 REV U WR	■ 679	Z5.573.7656.0	ST 72.1 / 6 RV U WR	679
Z5.571.3056.0	ST 70.3 /16 RV	■ 675	Z5.572.5856.0	BU 72.1 /24 REV U WR	■ 679	Z5.573.7756.0	ST 72.1 /10 RV U WR	679
Z5.571.3156.0	ST 70.3 / 6 RV	675	Z5.572.6056.0	BU 70.1 /16 RV U WL	675	Z5.573.7856.0	ST 72.1 /24 RV U WR	679
Z5.571.3256.0	ST 70.3 /10 RV	675	Z5.572.6156.0	BU 70.1 / 6 RV U WL	■ 675	Z5.573.8056.0	ST 73.1 /40 REV WL	■ 683
Z5.571.3356.0	ST 70.3 /24 RV	675	Z5.572.6256.0	BU 70.1 /10 RV U WL	■ 675	Z5.573.8156.0	ST 73.1 /64 REV WL	■ 683
Z5.571.3556.0	ST 72.3 /16 RV	■ 679	Z5.572.6356.0	BU 70.1 /24 RV U WL	■ 675	Z5.573.8356.0	ST 73.1 /40 REV WR	■ 683
Z5.571.3656.0	ST 72.3 / 6 RV	■ 679	Z5.572.6556.0	BU 72.1 /16 RV U WL	■ 679	Z5.573.8456.0	ST 73.1 /64 REV WR	■ 683
Z5.571.3756.0	ST 72.3 /10 RV	679	Z5.572.6656.0	BU 72.1 / 6 RV U WL	679	Z5.573.8656.0	ST 73.1 /40 RV WL	683
Z5.571.3856.0	ST 72.3 /24 RV	■ 679	Z5.572.6756.0	BU 72.1 /10 RV U WL	■ 679	Z5.573.8756.0	ST 73.1 /64 RV WL	■ 683
Z5.571.4056.0	ST 70.7 /16 REVZ	■ 677	Z5.572.6856.0	BU 72.1 /24 RV U WL	■ 679	Z5.573.8956.0	ST 73.1 /40 RV WR	■ 683
Z5.571.4156.0	ST 70.7 / 6 REVZ	677	Z5.572.7056.0	BU 70.1 /16 RV U WR	675	Z5.573.9056.0	ST 73.1 /64 RV WR	683
Z5.571.4256.0	ST 70.7 /10 REVZ	■ 677	Z5.572.7156.0	BU 70.1 / 6 RV U WR	■ 675	Z5.573.9156.0	ST 73.1 /40 REV U WL	■ 683
Z5.571.4356.0	ST 70.7 /24 REVZ	■ 677	Z5.572.7256.0	BU 70.1 /10 RV U WR	■ 675	Z5.573.9256.0	ST 73.1 /64 REV U WL	■ 683
Z5.571.4556.0	ST 72.7 /16 REVZ	681	Z5.572.7356.0	BU 70.1 /24 RV U WR	■ 675	Z5.573.9356.0	ST 73.1 /40 REV U WR	■ 683
Z5.571.4656.0	ST 72.7 / 6 REVZ	681	Z5.572.7556.0	BU 72.1 /16 RV U WR	■ 679	Z5.573.9456.0	ST 73.1 /64 REV U WR	■ 683
Z5.571.4756.0	ST 72.7 /10 REVZ	681	Z5.572.7656.0	BU 72.1 / 6 RV U WR	679	Z5.573.9556.0	ST 73.1 /40 RV U WL	683
Z5.571.4856.0	ST 72.7 /24 REVZ	681	Z5.572.7756.0	BU 72.1 /10 RV U WR	■ 679	Z5.573.9656.0	ST 73.1 /64 RV U WL	■ 683
Z5.571.5056.0	ST 70.7 /16 REV	677	Z5.572.7856.0	BU 72.1 /24 RV U WR	■ 679	Z5.573.9756.0	ST 73.1 /40 RV U WR	■ 683
Z5.571.5156.0	ST 70.7 / 6 REV	677	Z5.572.8056.0	BU 73.1 /40 REV WL	683	Z5.573.9856.0	ST 73.1 /64 RV U WR	683
Z5.571.5256.0	ST 70.7 /10 REV	677	Z5.572.8156.0	BU 73.1 /64 REV WL	■ 683	Z5.574.0053.0	6/10/16 Gehaeuse-UT	782
Z5.571.5356.0	ST 70.7 /24 REV	677	Z5.572.8356.0	BU 73.1 /40 REV WR	■ 683	Z5.574.0153.0	24 Gehaeuse-UT	782
Z5.571.5556.0 Z5.571.5656.0	ST 72.7 /16 REV	681	Z5.572.8456.0	BU 73.1 /64 REV WR	683	Z5.574.0653.0 Z5.574.1053.0	HALTERAHMEN 6 HALTERAHMEN 10	782
Z5.571.5656.0	ST 72.7 / 6 REV	■ 681	Z5.572.8656.0	BU 73.1 /40 RV WL	■ 683	Z5.574.1053.0	HALTERAHMEN 2x6	782
Z5.571.5756.0	ST 72.7 /10 REV	■ 681	Z5.572.8756.0	BU 73.1 /64 RV WL	■ 683	Z5.574.1253.0		782
Z5.571.5856.0	ST 72.7 /24 REV	■ 681	Z5.572.8956.0	BU 73.1 /40 RV WR	■ 683	Z5.574.1653.0	HALTERAHMEN 16	782
Z5.571.6056.0	ST 73.7 /40 REVZ	■ 683	Z5.572.9056.0	BU 73.1 /64 RV WR	■ 683	Z5.574.2453.0	HALTERAHMEN 24	782
Z5.571.6156.0	ST 73.7 /64 REVZ	683	Z5.572.9156.0	BU 73.1 /40 REV U WL	683	Z5.580.7800.0	M-IAC 24	482
Z5.571.6556.0	ST 70.7 /16 RVZ	■ 677	Z5.572.9256.0	BU 73.1 /64 REV U WL	■ 683	Z5.580.8100.0	M-IDC 24	482
Z5.571.6656.0	ST 70.7 / 6 RVZ	■ 677	Z5.572.9356.0	BU 73.1 /40 REV U WR	■ 683	Z5.592.1252.0	SPERRSTUECK	788
Z5.571.6756.0	ST 70.7 /10 RVZ	677	Z5.572.9456.0	BU 73.1 /64 REV U WR	683	Z5.593.4053.0	CODIERSATZ	788
Z5.571.6856.0	ST 70.7 /24 RVZ	677	Z5.572.9556.0	BU 73.1 /40 RV U WL	■ 683	Z5.595.2153.0	TRSTUECK F.TS35	584
Z5.571.7056.0	ST 73.7 /40 REV	683	Z5.572.9656.0	BU 73.1 /64 RV U WL	■ 683	Z5.599.9025.0	LP.STIFTLEISTE	320
Z5.571.7156.0	ST 73.7 /64 REV	■ 683	Z5.572.9756.0	BU 73.1 /40 RV U WR	■ 683	Z6.012.0812.0	SCHRAUBENSATZ	305
Z5.571.7556.0	ST 72.7 /16 RVZ	■ 681	Z5.572.9856.0	BU 73.1 /64 RV U WR	■ 683	Z7.210.1027.0	2072 M	164
Z5.571.7656.0	ST 72.7 / 6 RVZ	681	Z5.573.0056.0	ST 70.1 /16 REV WL	675	Z7.210.3027.0	9215 M-70	164
Z5.571.7756.0	ST 72.7 /10 RVZ	■ 681	Z5.573.0156.0	ST 70.1 / 6 REV WL	■ 675	Z7.210.3227.0	9215 - 2	114
Z5.571.7856.0	ST 72.7 /24 RVZ	■ 681	Z5.573.0256.0	ST 70.1 /10 REV WL	■ 675	Z7.210.3327.0	9215 - 3	114
Z5.571.8056.0	ST 73.7 /40 RVZ	683	Z5.573.0356.0	ST 70.1 /24 REV WL	675	Z7.210.3427.0	9215 - 4	164
Z5.571.8156.0	ST 73.7 /64 RVZ	683	Z5.573.0556.0	ST 72.1 /16 REV WL	■ 679	Z7.210.3527.0	9215 - 5	164
Z5.571.8556.0	ST 70.7 /16 RV	677	Z5.573.0656.0	ST 72.1 / 6 REV WL	■ 679	Z7.210.3627.0	9215 - 6	114
Z5.571.8656.0	ST 70.7 / 6 RV	677	Z5.573.0756.0	ST 72.1 /10 REV WL	■ 679	Z7.211.0027.0	9703 / 6 M-70	72
Z5.571.8756.0	ST 70.7 /10 RV	677	Z5.573.0856.0	ST 72.1 /24 REV WL	■ 679	Z7.211.0227.0	9703 / 6- 2	72
Z5.571.8856.0	ST 70.7 /24 RV	677	Z5.573.1056.0	ST 70.1 /16 REV WR	675	Z7.211.0327.0	9703 / 6-3	86
Z5.571.9056.0	ST 73.7 /40 RV	■ 683	Z5.573.1156.0	ST 70.1 / 6 REV WR	■ 675	Z7.211.0427.0	9703 / 6- 4	86
Z5.571.9156.0	ST 73.7 /64 RV	■ 683	Z5.573.1256.0	ST 70.1 /10 REV WR	■ 675	Z7.211.0527.0	9703 / 6- 5	86
Z5.571.9556.0 Z5.571.9656.0	ST 72.7 /16 RV	681 681	Z5.573.1356.0	ST 70.1 /24 REV WR ST 72.1 /16 REV WR	675 679	Z7.211.0627.0 Z7.212.0027.0	9703 / 6-6	72 196
Z5.571.9756.0	ST 72.7 / 6 RV ST 72.7 /10 RV	681	Z5.573.1556.0 Z5.573.1656.0	ST 72.1 / 6 REV WR	679	Z7.212.0027.0 Z7.212.0227.0	9703 / 8 M-50 9703 / 8- 2	191
Z5.571.9856.0	ST 72.7 /24 RV	■ 681	Z5.573.1756.0	ST 72.1 /10 REV WR	■ 679	Z7.212.0327.0	9703 / 8- 3	191
Z5.572.0056.0	BU 70.1 /16 REV WL	■ 675	Z5.573.1856.0	ST 72.1 /24 REV WR	■ 679	Z7.212.0427.0	9703 / 8- 4	191
Z5.572.0156.0	BU 70.1 / 6 REV WL	675	Z5.573.2056.0	ST 70.1 /16 RV WL	675	Z7.212.0527.0	9703 / 8-5	191
Z5.572.0256.0	BU 70.1 /10 REV WL	■ 675	Z5.573.2156.0	ST 70.1 / 6 RV WL	■ 675	Z7.212.0627.0	9703 / 8- 6	191
Z5.572.0356.0	BU 70.1 /24 REV WL	■ 675	Z5.573.2256.0	ST 70.1 / 10 RV WL	■ 675	Z7.212.1227.0		148
Z5.572.0556.0	BU 72.1 /16 REV WL	679	Z5.573.2356.0	ST 70.1 /24 RV WL	■ 675	Z7.212.1327.0		148
Z5.572.0656.0	BU 72.1 / 6 REV WL	679	Z5.573.2556.0	ST 72.1 /16 RV WL	■ 679	Z7.212.1427.0		148
Z5.572.0756.0	BU 72.1 /10 REV WL	679	Z5.573.2656.0	ST 72.1 / 6 RV WL	679	Z7.212.1527.0		148
Z5.572.0856.0	BU 72.1 /24 REV WL	679	Z5.573.2756.0	ST 72.1 /10 RV WL	■ 679	Z7.212.2027.0		148
Z5.572.1056.0	BU 70.1 /16 REV WR	675	Z5.573.2856.0	ST 72.1 /24 RV WL	■ 679	Z7.212.2227.0		148
Z5.572.1156.0	BU 70.1 / 6 REV WR	675	Z5.573.3056.0	ST 70.1 /16 RV WR	675	Z7.212.2327.0		148
Z5.572.1256.0	BU 70.1 /10 REV WR	675	Z5.573.3156.0	ST 70.1 / 6 RV WR	■ 675	Z7.212.2427.0	9703 / 12 M	148
Z5.572.1356.0	BU 70.1 /24 REV WR	675	Z5.573.3256.0	ST 70.1 / 10 RV WR	■ 675	Z7.213.0027.0		196
Z5.572.1556.0	BU 72.1 /16 REV WR	679	Z5.573.3356.0	ST 70.1 /24 RV WR	■ 675	Z7.213.0227.0	9703 / 12- 2	191
Z5.572.1656.0	BU 72.1 / 6 REV WR	679	Z5.573.3556.0	ST 72.1 /16 RV WR	■ 679	Z7.213.0327.0	9703 / 12- 3	191
Z5.572.1756.0	BU 72.1 /10 REV WR	679	Z5.573.3656.0	ST 72.1 / 6 RV WR	679	Z7.213.0427.0	9703 / 12- 4	191
Z5.572.1856.0	BU 72.1 /24 REV WR	■ 679	Z5.573.3756.0	ST 72.1 /10 RV WR	■ 679	Z7.213.0527.0	9703 / 12- 5	191
Z5.572.2056.0	BU 70.1 /16 RV WL	■ 675	Z5.573.3856.0	ST 72.1 /24 RV WR	■ 679	Z7.213.0627.0	9703 / 12- 6	191
Z5.572.2156.0	BU 70.1 / 6 RV WL	675	Z5.573.4056.0	ST 70.1 /16 REV U WL	675	Z7.214.0027.0	9703 / 10 M	196
Z5.572.2256.0	BU 70.1 /10 RV WL	■ 675	Z5.573.4156.0	ST 70.1 / 6 REV U WL	■ 675	Z7.214.0227.0	9703 / 10- 2	189
Z5.572.2356.0	BU 70.1 /24 RV WL	■ 675	Z5.573.4256.0	ST 70.1 /10 REV U WL	■ 675	Z7.214.0327.0	9703 / 10- 3	191
Z5.572.2556.0	BU 72.1 /16 RV WL	679	Z5.573.4356.0	ST 70.1 /24 REV U WL	675	Z7.214.0427.0	9703 / 10- 4	191
Z5.572.2656.0	BU 72.1 / 6 RV WL	679	Z5.573.4556.0	ST 72.1 /16 REV U WL	679	Z7.214.0527.0	9703 / 10- 5	191
Z5.572.2756.0	BU 72.1 /10 RV WL	679	Z5.573.4656.0	ST 72.1 / 6 REV U WL	679	Z7.214.0627.0	9703 / 10- 6	191
Z5.572.2856.0	BU 72.1 /24 RV WL	679	Z5.573.4756.0	ST 72.1 /10 REV U WL	■ 679	Z7.215.0027.0	9703 / 5 M	190
Z5.572.3056.0	BU 70.1 /16 RV WR	675	Z5.573.4856.0	ST 72.1 /24 REV U WL	■ 679	Z7.215.0227.0	9703 / 5- 2	189
Z5.572.3156.0	BU 70.1 / 6 RV WR	675	Z5.573.5056.0	ST 70.1 /16 REV U WR	675	Z7.215.0327.0	9703 / 5-3	190
Z5.572.3256.0	BU 70.1 /10 RV WR	675	Z5.573.5156.0	ST 70.1 / 6 REV U WR	■ 675	Z7.215.0427.0	9703 / 5- 4	190
Z5.572.3356.0	BU 70.1 /24 RV WR	675	Z5.573.5256.0	ST 70.1 /10 REV U WR	■ 675	Z7.215.0527.0	9703 / 5- 5	190
Z5.572.3556.0	BU 72.1 /16 RV WR	679	Z5.573.5356.0	ST 70.1 /24 REV U WR	675	Z7.215.0627.0	9703 / 5-6	190
Z5.572.3656.0	BU 72.1 / 6 RV WR	679	Z5.573.5556.0	ST 72.1 /16 REV U WR	■ 679	Z7.215.4027.0	VB WKM 2,5 / 15 M-60	164
Z5.572.3756.0	BU 72.1 /10 RV WR	679	Z5.573.5656.0	ST 72.1 / 6 REV U WR	■ 679	Z7.215.4227.0	VB WKM 2,5 / 15 - 2	164
Z5.572.3856.0	BU 72.1 /24 RV WR	679	Z5.573.5756.0	ST 72.1 /10 REV U WR	679	Z7.215.4327.0	VB WKM 2,5 / 15 - 3	164
Z5.572.4056.0	BU 70.1 /16 REV U WL	675	Z5.573.5856.0	ST 72.1 /24 REV U WR	679	Z7.215.4427.0	VB WKM 2,5 / 15 - 4	164
Z5.572.4156.0	BU 70.1 / 6 REV U WL	675	Z5.573.6056.0	ST 70.1 /16 RV U WL	675	Z7.215.4527.0	VB WKM 2,5 / 15 - 5	164
Z5.572.4256.0	BU 70.1 /10 REV U WL	675	Z5.573.6156.0	ST 70.1 / 6 RV U WL	■ 675	Z7.215.4627.0	VB WKM 2,5 / 15 - 6	164

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Z7.216.0227.0	9703 / 16- 2	189	Z7.261.1627.0	IVBWKF 4 - 6	20	Z7.280.2927.0	IVBWK 2,5 - 9	162
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Z7.220.0227.0 Z7.220.0327.0	2072 / 3	164	Z7.267.0027.5 Z7.267.0027.6	IVB WK 2,5-K-M-70 BLAU	160	Z7.280.6227.0 Z7.280.6227.0	IVBWKF 2,5 - 2	308
Z7.220.0427.0	2072 / 4	164	Z7.267.0227.5	IVB WK 2,5-K- 2 ROT	118	Z7.280.6327.0	IVBWKF 2,5 - 3	19
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Z7.255.0227.0	IVB 0,5 WK4 2	86	Z7.267.0327.6	IVB WK 2,5-K- 3 BLAU	160	Z7.280.6427.0	IVBWKF 2,5 - 4	308
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Z7.255.0427.0 Z7.255.0527.0	IVB 0,5 WK4 4	86	Z7.267.0427.6 Z7.267.0527.5	IVB WK 2,5-K- 5 ROT	160	Z7.280.6627.0	IVBWKF 2,5 - 6	20
Z7.255.0627.0	IVB 0,5 WK4 6	86	Z7.267.0527.6	IVB WK 2,5-K- 5 BLAU	160	Z7.280.6627.0	IVBWKF 2,5 - 6	308
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Z7.255.0927.0	IVB 0,5 WK4 9	86	Z7.267.0727.5	IVB WK 2,5-K 7 ROT	160	Z7.280.6827.0	IVBWKF 2,5 - 8	20
Z7.255.1027.0	IVB 0,5 WK4 10	86	Z7.267.0727.6	IVB WK 2,5-K 7 BLAU	160	Z7.280.6827.0	IVBWKF 2,5 - 8	308 20
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Z7.255.2227.0	IVB WK4 E - 2	114	Z7.267.0927.5	IVB WK 2,5-K 9 ROT	160	Z7.280.7027.0	IVBWKF 2,5 - 10	20
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Z7.255.2527.0	IVB WK4 E - 5	160	Z7.267.1027.6	IVB WK 2,5-K- 10 BLAU	160	Z7.281.0227.0	VB WK 4 - 2	87
Z7.255.2627.0	IVB WK4 E - 6	114	Z7.267.1127.5	IVB WK 2,5-K 11 ROT	160	Z7.281.0327.0	VB WK 4 - 3	87
Z7.255.2727.0 Z7.255.2827.0	IVB WK4 E - 7 IVB WK4 E - 8	160 160	Z7.267.1127.6 Z7.267.1227.5	IVB WK 2,5-K 6 BLAU IVB WK 2,5-K- 12 ROT	160 118	Z7.281.0427.0 Z7.281.0527.0	VB WK 4 - 4 VB WK 4 - 5	87 87
Z7.255.2927.0	IVB WK4 E - 9	160	Z7.267.1227.6	IVB WK 2,5-K- 12 BLAU	118	Z7.281.0627.0	VB WK 4 - 6	87
Z7.255.3027.0 Z7.255.3127.0	IVB WK4 E - 10 IVB WK4 E - 11	160	Z7.269.0523.0 Z7.269.0623.0	9012 / 6	197	Z7.281.1227.0 Z7.281.1327.0	IVBWK 4 - 2 IVBWK 4 - 3	78
Z7.255.3127.0 Z7.255.3227.0	IVB WK4 E - 12	160 160	Z7.269.0023.0 Z7.269.0723.0	9012 / 2.5 UB 9012	161 197	Z7.281.1327.0 Z7.281.1427.0	IVBWK 4 - 4	78 78
Z7.255.4227.0	IVB 1 WK4 2	86	Z7.269.2823.0	QUERSCHALTLASCHE	197	Z7.281.1527.0	IVBWK 4-5	78
Z7.255.4327.0 Z7.255.4427.0	IVB 1 WK4 3 IVB 1 WK4 4	■ 86 ■ 86	Z7.269.2923.0 Z7.269.3023.0	QUERSCHALTLASCHE QUERSCHALTLASCHE	161 189	Z7.281.1627.0 Z7.281.1727.0	IVBWK 4 - 6 IVBWK 4 - 7	78 87
Z7.255.4527.0	IVB 1 WK4 5	86	Z7.269.3123.0	QUERSCHALTLASCHE	191	Z7.281.1827.0	IVBWK 4-8	87
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Z7.255.4927.0	IVB 1 WK4 9	86	Z7.269.3623.0	QUERSCHALTLASCHE	161	Z7.281.2227.0	IVBWK 4-12	87
Z7.255.5027.0 Z7.255.5127.0	IVB 1 WK4 10 IVB 1 WK4 11	■ 86 ■ 86	Z7.269.4023.0 Z7.269.4123.0	QUERSCHALTLASCHE QUERSCHALTLASCHE	161 161	Z7.281.3027.0 Z7.281.3227.0	VB WK/S/IW/U-20 VB WK/S/IW/U- 2	164 140
Z7.255.5227.0	IVB 1 WK4 12	86	Z7.269.4223.0	QUERSCHALTLASCHE	161	Z7.281.3327.0	VB WK/S/IW/U- 3	140
Z7.256.0227.0	FUER 70ER KLEMMENADAP		Z7.270.0027.0	IVB WK 2,5-3D- M-70	162	Z7.281.3427.0	VB WK/S/IW/U- 4	164
Z7.256.0327.0 Z7.256.0427.0	FUER 70ER KLEMMENADAPT FUER 70ER KLEMMENADAPT		Z7.270.0227.0 Z7.270.0327.0	IVB WK 2,5-3D- 2 IVB WK 2,5-3D- 3	118 118	Z7.281.3527.0 Z7.281.3627.0	VB WK/S/IW/U- 5 VB WK/S/IW/U- 6	164 140
Z7.256.0527.0	FUER 70ER KLEMMENADAP	Г. 📕 781	Z7.270.0427.0	IVB WK 2,5-3D- 4	162	Z7.281.6027.0	VB WK 4/DM-70	164
Z7.256.0627.0 Z7.256.0727.0	FUER 70ER KLEMMENADAPT FUER 70ER KLEMMENADAPT		Z7.270.0527.0 Z7.270.0627.0	IVB WK 2,5-3D- 5	162 162	Z7.281.6227.0 Z7.281.6327.0	VB WK 4/D2	164 164
Z7.256.0727.0 Z7.256.0827.0	FUER 70ER KLEMMENADAP		Z7.270.0027.0 Z7.270.0727.0	IVB WK 2,5-3D- 6 IVB WK 2,5-3D- 7	162	Z7.281.6427.0	VB WK 4/D3 VB WK 4/D4	164
Z7.256.0927.0	FUER 70ER KLEMMENADAP	Г. 📕 781	Z7.270.0827.0	IVB WK 2,5-3D- 8	162	Z7.281.6527.0	VB WK 4/D5	164
Z7.256.1027.0 Z7.256.1127.0	FUER 70ER KLEMMENADAPT FUER 70ER KLEMMENADAPT		Z7.270.0927.0 Z7.270.1027.0	IVB WK 2,5-3D- 9 IVB WK 2,5-3D- 10	162 162	Z7.281.6627.0 Z7.281.7227.0	VB WK 4/D6 IVB WK 4/D2	164 112
Z7.256.1227.0	FUER 70ER KLEMMENADAP		Z7.270.1127.0	IVB WK 2,5-3D- 11	162	Z7.281.7327.0	IVB WK 4/D 3	112
Z7.256.2227.0 Z7.256.2627.0	IVK WK 4/DEU- 2 IVK WK 4/DEU- 6	112 112	Z7.270.1227.0 Z7.271.0227.0	IVB WK 2,5-3D- 12 IVB WK 4/DEU- 2	118 113	Z7.281.7427.0 Z7.281.7527.0	IVB WK 4/D 4	162 162
Z7.256.4227.0	IVBS WK4 E - 2	114	Z7.271.0227.0 Z7.271.0327.0	IVB WK 4/DEU- 3	113	Z7.281.7627.0 Z7.281.7627.0	IVB WK 4/D 5 IVB WK 4/D 6	162
Z7.256.4327.0	IVBS WK4 E - 3	160	Z7.271.0427.0	IVB WK 4/DEU- 4	162	Z7.281.7727.0	IVB WK 4/D 7	162
Z7.256.4427.0 Z7.256.4527.0	IVBS WK4 E - 4 IVBS WK4 E - 5	160 160	Z7.271.0527.0 Z7.271.0627.0	IVB WK 4/DEU- 5 IVB WK 4/DEU- 6	162 162	Z7.281.7827.0 Z7.281.7927.0	IVB WK 4/D 8 IVB WK 4/D 9	162 162
Z7.256.4627.0	IVBS WK4 E - 6	114	Z7.271.0727.0	IVB WK 4/DEU- 7	162	Z7.281.8027.0	IVB WK 4/D10	162
Z7.256.4727.0	IVBS WK4 E - 7	160	Z7.271.0827.0	IVB WK 4/DEU- 8	162	Z7.281.8127.0	IVB WK 4/D11	162
Z7.256.4827.0 Z7.256.4927.0	IVBS WK4 E - 8 IVBS WK4 E - 9	160 160	Z7.271.0927.0 Z7.271.1027.0	IVB WK 4/DEU- 9 IVB WK 4/DEU-10	162 162	Z7.281.8227.0 Z7.282.0027.0	IVB WK 4/D12 VB WK 6 M-40	112 165
Z7.256.5027.0	IVBS WK4 E - 10	160	Z7.271.1127.0	IVB WK 4/DEU-11	162	Z7.282.0227.0	VB WK 6 - 2	165
Z7.256.5127.0 Z7.256.5227.0	IVBS WK4 E - 11 IVBS WK4 E - 12	160 160	Z7.271.1227.0 Z7.271.2227.0	IVB WK 4/DEU-12 IVB WK4 E/U- 2	113 145	Z7.282.0327.0 Z7.282.0427.0	VB WK 6 - 3 VB WK 6 - 4	165 165
Z7.258.0225.0	ISOL.VERB.ST.	204	Z7.271.2327.0	IVB WK4 E/U- 3	145	Z7.282.0527.0	VB WK 6 - 5	165
Z7.258.0325.0	ISOL.VERB.ST.	204	Z7.271.2427.0	IVB WK4 E/U- 4	162	Z7.282.0627.0	VB WK 6 - 6	165
Z7.258.1025.0 Z7.258.1225.0	ISOL.VERB.ST. ISOL.VERB.KAMM	204 416	Z7.271.2527.0 Z7.271.2627.0	IVB WK4 E/U- 5 IVB WK4 E/U- 6	162 162	Z7.282.2227.0 Z7.282.2327.0	IVBWK 6 - 2 IVBWK 6 - 3	103 101
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Z7.258.1425.0 Z7.258.1525.0	ISOL.VERB.KAMM	781 781	Z7.271.2927.0 Z7.271.3027.0	IVB WK4 E/U-10	162 162	Z7.282.2627.0 Z7.282.2727.0	IVBWK 6 - 6 IVBWK 6 - 7	163
Z7.258.1625.0	ISOL.VERB.KAMM	781	Z7.271.3127.0	IVB WK4 E/U-11	162	Z7.282.2827.0	IVBWK 6-8	163
Z7.258.1725.0 Z7.258.1825.0	ISOL.VERB.KAMM ISOL.VERB.KAMM	781 781	Z7.271.3227.0 Z7.271.4227.0	IVB WK4 E/U-12 IVB WKI4 - 2	145 139	Z7.282.2927.0 Z7.282.3027.0	IVBWK 6 - 9 IVBWK 6 -10	163 163
Z7.258.1925.0	ISOL.VERB.KAMM	781	Z7.271.4327.0	IVB WKI4 - 3	139	Z7.282.3127.0	IVBWK 6-11	163
Z7.258.2025.0	ISOL.VERB.KAMM	781	Z7.271.5227.0	IVB WKI4 -12	69	Z7.282.3227.0	IVBWK 6 -12	103
Z7.260.0029.0 Z7.260.0229.0		40 40	Z7.280.0027.0 Z7.280.0227.0	VB WK 2,5 M-80 VB WK 2,5 - 2	164 120	Z7.282.4227.0 Z7.283.2227.0	IVBWKF 6- 2 IVBWKN10 - 2	21 78
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Z7.260.0529.0 Z7.260.0629.0		40 40	Z7.280.0527.0 Z7.280.0627.0	VB WK 2,5 - 5 VB WK 2,5 - 6	164 120	Z7.283.2527.0 Z7.283.2627.0	IVBWKN10 - 5 IVBWKN10 - 6	78 78
Z7.260.0729.0		40	Z7.280.2227.0	IVBWK 2,5 - 2	102	Z7.283.2727.0	IVBWKN10 - 7	163
Z7.260.0829.0 Z7.260.0929.0		40 40	Z7.280.2227.0 Z7.280.2327.0	IVBWK 2,5 - 2 IVBWK 2,5 - 3	310 102	Z7.283.2827.0 Z7.283.2927.0	IVBWKN10 - 8 IVBWKN10 - 9	163 163
Z7.260.0929.0 Z7.260.1029.0		40	Z7.280.2327.0 Z7.280.2327.0	IVBWK 2,5 - 3	310	Z7.283.2927.0 Z7.283.3027.0	IVBWKN10 - 10	163
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Electrical Connections

USA

Wieland Electric Inc. 49 International Road Burgaw, NC 28425 Phone: (910) 259-5050 Fax: (910) 259-3691

e-mail: sales@wielandinc.com

Canada

Wieland Electric Inc. 2889 Brighton Road Oakville, Ontario L6H 6C9 Phone: (905) 829-8414 Fax: (905) 829-8413

e-mail: oakville@wielandinc.com

On the Internet:

www.wielandinc.com

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- with spring connection
- with IDC connection Terminal blocks for electrical installations
- with screw connection
- with spring connection

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- insulated headers
- rising cage clamp/ plug connectors
- TOP connection
- Spring connection
- electronics housings

Electronics components

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- solid-state modules
- interface modules
- function modules
- Power Supplies

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- power bus
- distributed I/Os

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- Compact connectors
- Low voltage connectors
- Flat cable systems
- Distribution systems
- EIB switching devices

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