

OMNIMATE Power PCB connectors

OMNIMATE Power PCB connectors	OMNIMATE Power	
		Explanation 1.2
	OMNIMATE Power Hybrid	
	Explanation 1.4	
	Quick selection 1.6	
	Product selection 1.8	
	OMNIMATE Power IT	
	Explanation 1.26	
	Quick selection 1.28	
	Product selection 1.30	
	OMNIMATE Power HP to 4 mm ²	
	Explanation 1.46	
	Quick selection 1.48	
	Product selection 1.50	
	OMNIMATE Power HP to 6 mm ²	
	Explanation 1.66	
	Quick selection 1.68	
	Product selection 1.70	
	OMNIMATE Power HP 16 mm ²	
	Explanation 1.118	
	Quick selection 1.120	
	Product selection 1.122	

OMNIMATE Power on BOARD

Integrated connection systems delivering innovative drive applications

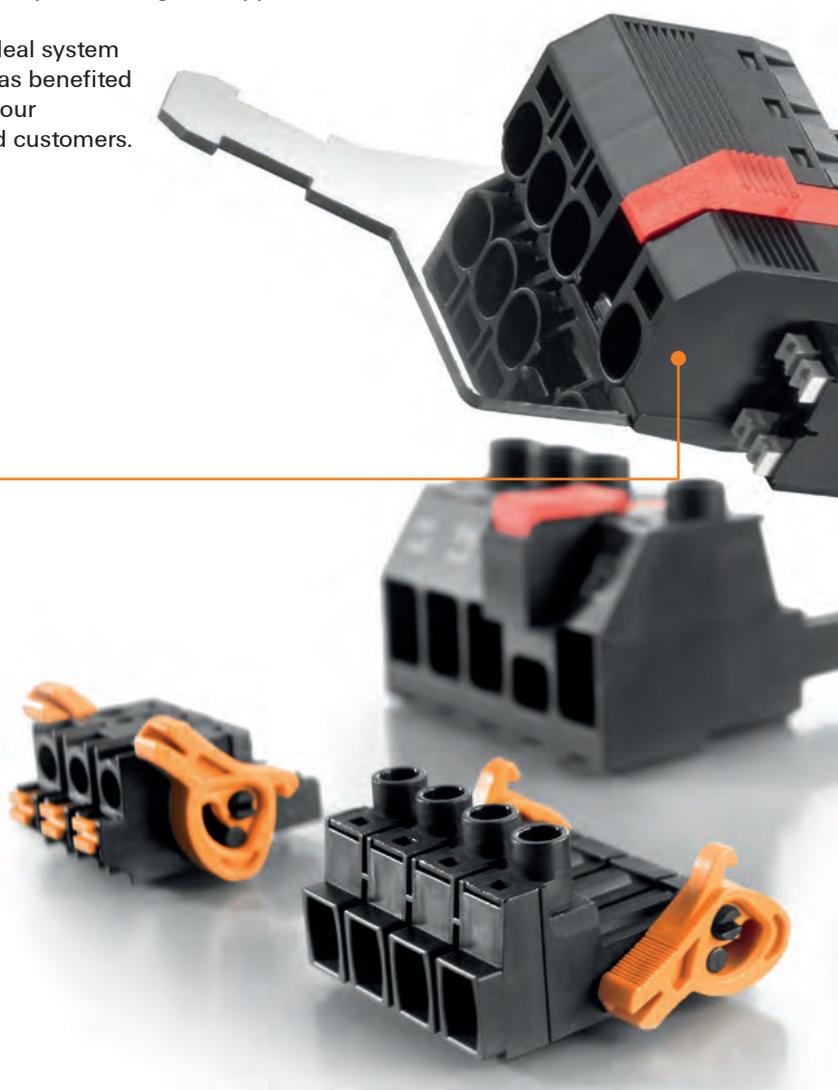
The OMNIMATE Power system excels in power electronics and drive applications because it has implemented and incorporated customer and market requirements.

Custom-fit connection solutions for power electronics – resulting from the synergy between application-oriented components, individual services and competent design-in support.

The following pages show why OMNIMATE Power is the ideal system for power electronics and drive applications. This system has benefited from our broader perspective of component directives and our consistent implementation of requests from the market and customers.

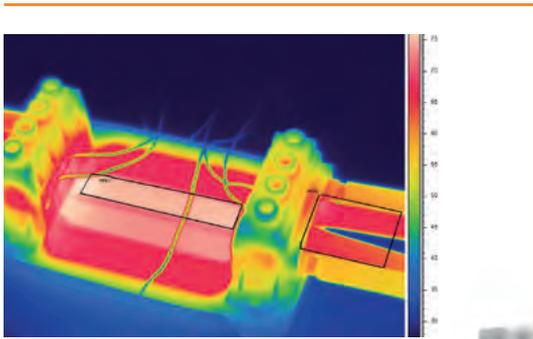
Performance + Innovation

Designed with future requirements in mind whether for cars or servo-drives: hybrid design concepts create an efficient solution from two distinct elements.



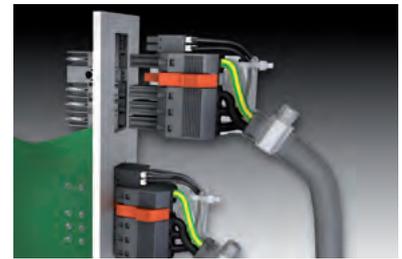
Performance + Support

Weidmüller delivers more than just components. Our design-in competence encompassing work from design and implementation to the market release phase delivers the top results.



Performance + Services

Customised services supplement our comprehensive standard portfolio. The housing colour, printing, coding, contact surfaces, packaging and much more can be configured online with just a few mouse clicks.



An overview of OMNIMATE Power

The single-source solution that omits no necessary components a result of Weidmüller's technology and application expertise delivers the optimal designed-in results. The following pages describe the individual product lines in detail.



Design-In Services & Support

The path to top results starts before component selection and does not end with delivery. More information can be found at <http://galaxy.weidmueller.com>



OMNIMATE Power BV / SV 7.62HP Hybrid – for power, signals and EMC

Three functions in one!

The OMNIMATE Power Hybrid connector provides developers and users with the perfect three-in-one solution.

The hybrid motor connector can simultaneously connect power, signals and a pluggable EMC shield. This allows you to save space on the circuit board, on the outside of the housing and in the electrical cabinet. The self-locking one-handed interlock mechanism requires only one plugging step and thus speeds up installation and maintenance procedures. It is easy to handle and interlocks automatically – even in difficult installation positions. The unique shielding shape with 30° cable entry enables a space savings of up to 10 cm between rows.

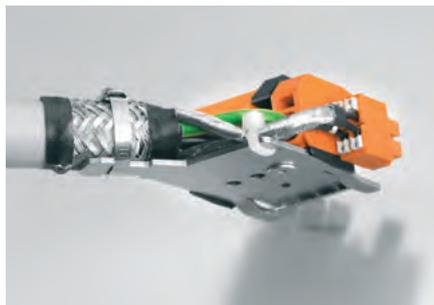
Unique safety

Safe, EMC-compliant shield connection for any application situation and with no risk of error.



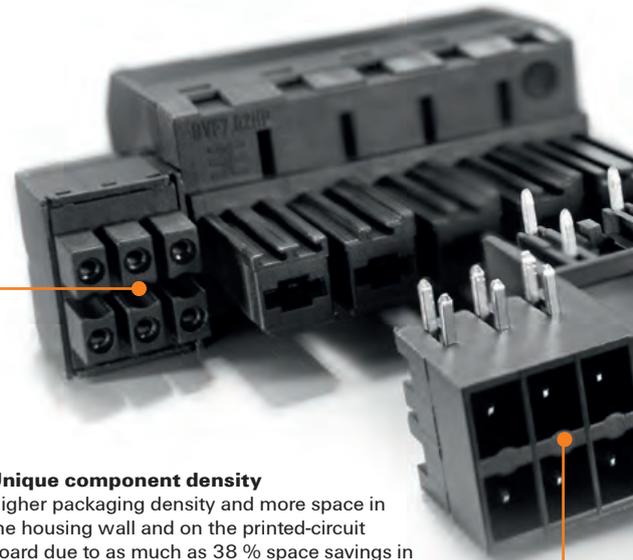
Unique integration

Three-in-one solution: pluggable shield support, integrated signal contacts, and one-handed security flange.



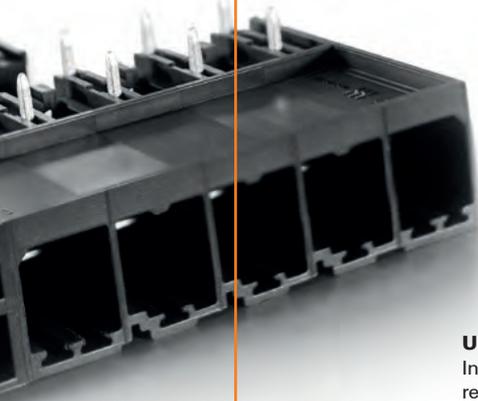
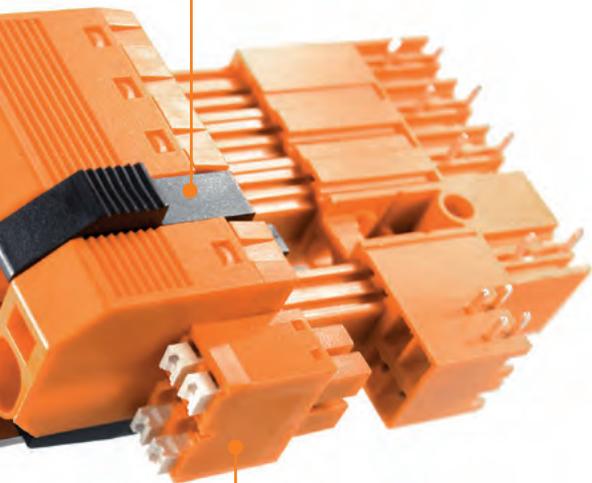
Unique component density

Higher packaging density and more space in the housing wall and on the printed-circuit board due to as much as 38 % space savings in the construction width.



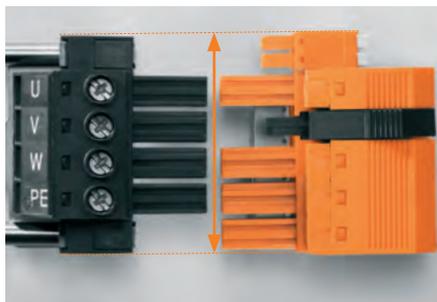
Unique interaction

Plug & Work with intuitive handling: featuring tool-free one-handed operation with automatic snap-in and also “blind” plugging of power, signals and shielding simultaneously.



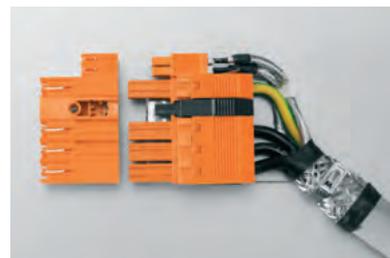
Unique innovation

Integrating functions, optimising processes, and reducing complexity: The conventional 2 outer flanges have simply been replaced by 1 middle flange, 4 signal contacts and 1 pluggable shield support.



EMC in theory and in the real world

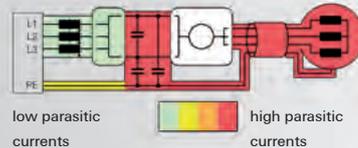
The motor feedback (signal feedback from temperature/encoder) in hybrid, shield-within-shield motor cables is usually made from over-sized power contacts or from disconnected I/O connectors. It also normally requires two separate shield connections. During installation and repairs (replacement), it is possible that the shield terminals could be incorrectly connected, left disconnected or lost. With conventional shielding, it can be quite difficult to tighten the flange screws when the connection is located at a difficult to reach location. So this step is often neglected in the real world.



Reliably avoiding interferences

As a result, malfunctions can then be caused by the coupling of electromagnetic fields within the sensitive electronics. The pluggable, hybrid shield support features a special EMC spring-contact strip which ensures that the shield connection to the housing is permanent, vibration-proof and covers a large surface area. It allows the shielding braid from the power and signal wires to be connected separately – and enables this to be done automatically in one step so that it is not dependent on the user.

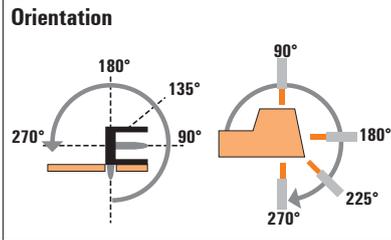
Topology of parasitic currents



Source: Fraunhofer IZM

<http://www.OMNIMATE.net>

○ = Wire-to-Board
 ● = Board-to-Board
 ○ = Wire-to-Wire
 ● = Board-to-Wire



Hybrid pin header

Solder connection



BV/SV 7.62 series



Type	SV & SC 3.81
Orientation	90°/270°
Flange options	G/MF
Product code numbers	IEC: 100 V/38 A/0.5 - 10 mm ² UL: 600 V/35 A/AWG 24 - 10
Page	I.8

Hybrid female connector	Spring PUSH IN	Image	Type	Orientation	Flange options	Product code numbers	Page	Wire-to-Board	Board-to-Board
Hybrid female connector	Spring PUSH IN		BVF & BC 3.81	180°	(G)/MF	IEC: 1.000 V/41 A/0.2 - 10 mm ² UL: 600 V/35 A/AWG 24 - 10	I.20	○	●
Hybrid female connector	Spring PUSH IN		BVF & BC 3.81*	180°	(G)/MF	IEC: 1.000 V/41 A/0.2 - 10 mm ² UL: 600 V/35 A/AWG 24 - 10	I.22	○	●

* shield support as accessories on K.3

Female plug and header:

- (G) = Closed (without flange)
- MF = Centre flange with clasp

Male header and plug:

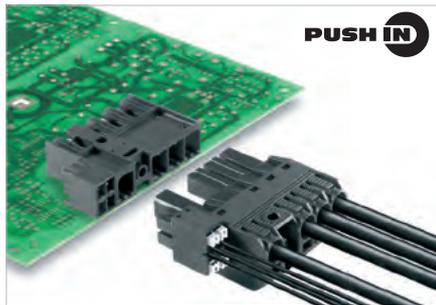
- G = Closed (without flange)
- MF = Centre flange for clasp
- MSF = middle flange with screw and latching hook





Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connection up to 6 mm²

SV 7.62HP/./90 & SC 3.81MF



PUSH IN

Hybrid male header in 90° outlet direction with power and signal contacts. Meets the enhanced requirements of IEC 61800-5-1 for 3 mm touch safety in 400 V TNC (S) networks and enables UL approval for 600 V in accordance with UL 508 / UL 840. The middle flange interlocks automatically. It decreases the space required by one pole when compared to other solutions.

- Available with a middle flange (MF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	630 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A
 UL: 300 V / 35 A



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62HP/./90MF2. SC/./R



Dimensioned drawing

Accessories

Note: Refer to the Accessories chapter for additional accessories.

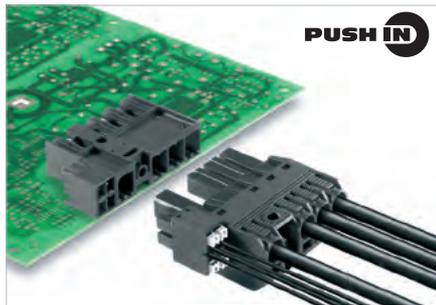
Coding		Order No.
	BV/SV 7.62HP KO	1937590000

Ordering data

Solder pin length		3.5 mm				
Colour		Black				
Pitch		7.62 mm				
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	60	1089370000
2 / 6	15.24	0.600	7.62	0.300	54	1089410000
2 / 8	15.24	0.600	11.43	0.450	48	1156820000
3 / 4	22.86	0.900	3.81	0.150	48	1156230000
3 / 6	22.86	0.900	7.62	0.300	42	1156240000
3 / 8	22.86	0.900	11.43	0.450	36	1156840000

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connection up to 6 mm²

SV 7.62HP/./90 & SC 3.81MSF



Hybrid male header in 90° outlet direction with power and signal contacts. Meets the enhanced requirements of IEC 61800-5-1 for 3 mm touch safety in 400 V TNC (S) networks and enables UL approval for 600 V in accordance with UL 508 / UL 840. The middle flange interlocks automatically. It decreases the space required by one pole when compared to other solutions.

- Available with a middle flange (MF).

Product data

IEC: 1000 V / 41 A
 UL: 300 V / 35 A



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62HP/./90MSF2. SC/./R



Dimensioned drawing

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	630 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000

Ordering data

Solder pin length		3.5 mm				
Colour		Black				
Pitch		7.62 mm				
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	60	1089510000
2 / 6	15.24	0.600	7.62	0.300	54	1089570000
2 / 8	15.24	0.600	11.43	0.450	48	1156830000
3 / 4	22.86	0.900	3.81	0.150	48	1156250000
3 / 6	22.86	0.900	7.62	0.300	42	1156270000
3 / 8	22.86	0.900	11.43	0.450	36	1156870000

SV 7.62HP/./90MSF3. SC/..R

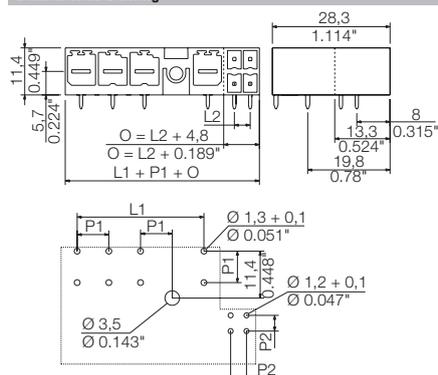


Dimensioned drawing

SV 7.62HP/./90MSF4. SC/..R



Dimensioned drawing



Ordering data

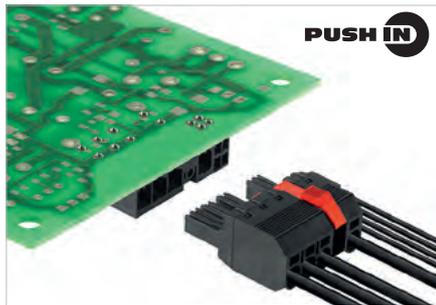
Solder pin length		3.5 mm				
Colour		Black				
Pitch		7.62 mm				
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
3/4	22.86	0.900	3.81	0.150	48	1089890000
3/6	22.86	0.900	7.62	0.300	42	1089970000
3/8	22.86	0.900	11.43	0.450	36	1156880000
5/4	38.10	1.500	3.81	0.150	30	1157000000
5/6	38.10	1.500	7.62	0.300	30	1157010000
5/8	38.10	1.500	11.43	0.450	30	1157020000

Ordering data

Solder pin length		3.5 mm				
Colour		Black				
Pitch		7.62 mm				
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
4/4	30.48	1.200	3.81	0.150	36	1090370000
4/6	30.48	1.200	7.62	0.300	36	1090450000
4/8	30.48	1.200	11.43	0.450	30	1156900000
5/4	38.10	1.500	3.81	0.150	30	1090830000
5/6	38.10	1.500	7.62	0.300	30	1090900000
5/8	38.10	1.500	11.43	0.450	30	1157030000

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connection up to 6 mm²

SV 7.62HP../270 & SC 3.81



Hybrid male header in 270° outlet direction with power and signal contacts. Meets the enhanced requirements of IEC 61800-5-1 for 3 mm touch safety in 400 V TNC (S) networks and enables UL approval for 600 V in line with UL 508 / UL 840. The middle flange interlocks automatically. It decreases the space required by one pole when compared to other solutions.

- Available with a middle flange (MF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	630 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A
 UL: 300 V / 35 A



For additional articles and information, refer to catalog.weidmuller.com

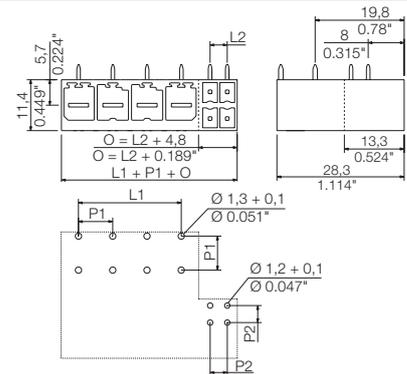
Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SV 7.62HP../270 SC../R



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

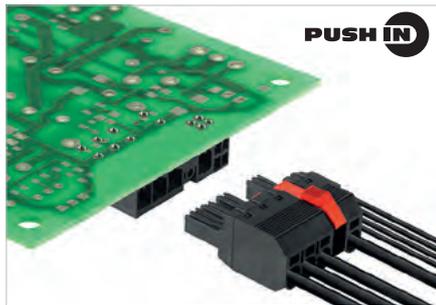
Ordering data

Solder pin length		3.5 mm				
Colour		Black				
Pitch		7.62 mm				
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	78	1090770000
2 / 6	15.24	0.600	7.62	0.300	66	1090850000
2 / 8	15.24	0.600	11.43	0.450	60	1156920000
3 / 4	22.86	0.900	3.81	0.150	60	1090950000
3 / 6	22.86	0.900	7.62	0.300	54	1091010000
3 / 8	22.86	0.900	11.43	0.450	48	1156940000
4 / 4	30.48	1.200	3.81	0.150	48	1091120000
4 / 6	30.48	1.200	7.62	0.300	42	1091160000
4 / 8	30.48	1.200	11.43	0.450	42	1156970000
5 / 4	38.10	1.500	3.81	0.150	36	1091240000
5 / 6	38.10	1.500	7.62	0.300	36	1091260000
5 / 8	38.10	1.500	11.43	0.450	36	1156990000



Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connection up to 6 mm²

SV 7.62HP/./270 & SC 3.81MF



Hybrid male header in 270° outlet direction with power and signal contacts. Meets the enhanced requirements of IEC 61800-5-1 for 3 mm touch safety in 400 V TNC (S) networks and enables UL approval for 600 V in line with UL 508 / UL 840. The middle flange interlocks automatically. It decreases the space required by one pole when compared to other solutions.

- Available with a middle flange (MF).

Product data

IEC: 1000 V / 41 A
 UL: 300 V / 35 A



For additional articles and information, refer to catalog.weidmuller.com

Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62HP/./270MF2. SC/..R



Dimensioned drawing

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	630 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

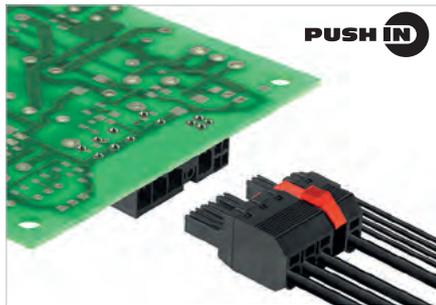
Coding		Order No.
	BV/SV 7.62HP KO	1937590000

Ordering data

Solder pin length		3.5 mm				
Colour		Black				
Pitch		7.62 mm				
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	60	1089260000
2 / 6	15.24	0.600	7.62	0.300	54	1089280000
2 / 8	15.24	0.600	11.43	0.450	48	1156120000
3 / 4	22.86	0.900	3.81	0.150	48	1156140000
3 / 6	22.86	0.900	7.62	0.300	42	1156150000
3 / 8	22.86	0.900	11.43	0.450	36	1156170000

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connection up to 6 mm²

SV 7.62HP/./270 & SC 3.81MSF



Hybrid male header in 270° outlet direction with power and signal contacts. Meets the enhanced requirements of IEC 61800-5-1 for 3 mm touch safety in 400 V TNC (S) networks and enables UL approval for 600 V in line with UL 508 / UL 840. The middle flange interlocks automatically. It decreases the space required by one pole when compared to other solutions.

- Available with a middle flange (MF).

Product data

IEC: 1000 V / 41 A
 UL: 300 V / 35 A



For additional articles and information, refer to catalog.weidmuller.com

Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62HP/./270MSF2. SC/./R



Dimensioned drawing

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	630 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000

Ordering data

Solder pin length		3.5 mm				
Colour		Black				
Pitch		7.62 mm				
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
2 / 4	15.24	0.600	3.81	0.150	60	1089340000
2 / 6	15.24	0.600	7.62	0.300	54	1089380000
2 / 8	15.24	0.600	11.43	0.450	48	1156130000
3 / 4	22.86	0.900	3.81	0.150	48	1156190000
3 / 6	22.86	0.900	7.62	0.300	42	1156200000
3 / 8	22.86	0.900	11.43	0.450	36	1156210000

SV 7.62HP../270MSF3. SC/..R

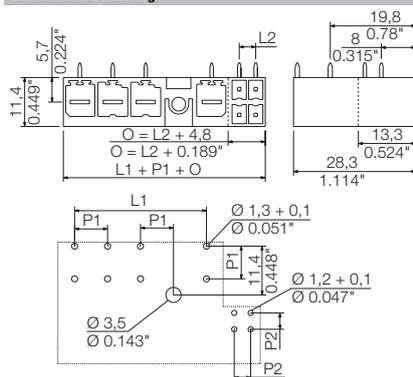


Dimensioned drawing

SV 7.62HP../270MSF4. SC/..R



Dimensioned drawing



Ordering data

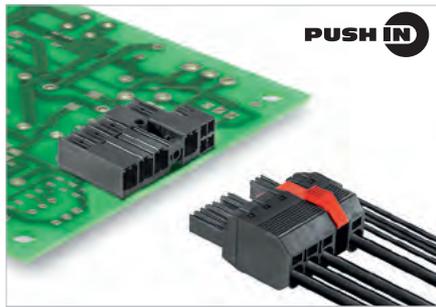
Solder pin length		3.5 mm					
Colour		Black					
Pitch		7.62 mm					
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.			
3/4	22.86	0.900	3.81	0.150	48	1089610000	
3/6	22.86	0.900	7.62	0.300	42	1089670000	
3/8	22.86	0.900	11.43	0.450	36	1156220000	
5/4	38.10	1.500	3.81	0.150	30	1156370000	
5/6	38.10	1.500	7.62	0.300	30	1156390000	
5/8	38.10	1.500	11.43	0.450	30	1156410000	

Ordering data

Solder pin length		3.5 mm					
Colour		Black					
Pitch		7.62 mm					
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.			
4/4	30.48	1.200	3.81	0.150	36	1090060000	
4/6	30.48	1.200	7.62	0.300	36	1090140000	
4/8	30.48	1.200	11.43	0.450	30	1156290000	
5/4	38.10	1.500	3.81	0.150	30	1090540000	
5/6	38.10	1.500	7.62	0.300	30	1090610000	
5/8	38.10	1.500	11.43	0.450	30	1156430000	

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connection up to 6 mm²

BVF 7.62HP../180 & BCF 3.81



Hybrid female plug with power and signal contacts with "PUSH IN" connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...10	
Solid core H05(07) V-U	mm²	0.5...10	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...10	
Flexible with ferrule	mm ²	1.5...6	
Ferrule with plastic collar	mm ²	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm		
Rated current, max.	A	38	34
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-8	
CSA (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 38 A / 0.5 - 10 mm²
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmuller.com

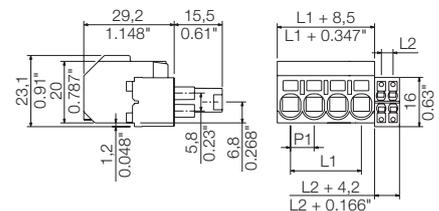
Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVF 7.62HP../180 BCF../R



Dimensioned drawing



Accessories

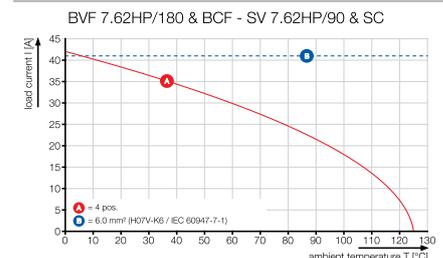
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
2 / 4	7.62	0.300	3.81	0.150	65	1080550000
2 / 6	7.62	0.300	7.62	0.300	55	1080320000
2 / 8	7.62	0.300	11.43	0.450	50	1156440000
3 / 4	15.24	0.600	3.81	0.150	50	1080490000
3 / 6	15.24	0.600	7.62	0.300	45	1080570000
3 / 8	15.24	0.600	11.43	0.450	40	1156450000
4 / 4	22.86	0.900	3.81	0.150	40	1080510000
4 / 6	22.86	0.900	7.62	0.300	35	1080440000
4 / 8	22.86	0.900	11.43	0.450	30	1156470000
5 / 8	30.48	1.200	11.43	0.450	25	1156480000

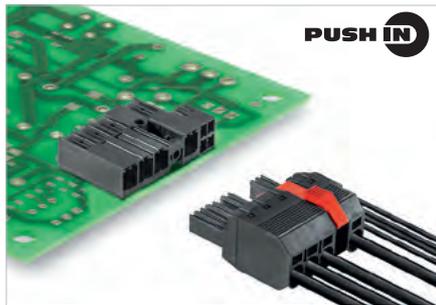
Representative deratings curve





Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connection up to 6 mm²

BVF 7.62HP../180MF & BCF 3.81



Hybrid female plug with power and signal contacts with "PUSH IN" connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. The self-fastening middle flange reduces the space requirements by one pole.

The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...10	
Solid core H05(07) V-U	mm²	0.5...10	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...10	
Flexible with ferrule	mm ²	1.5...6	
Ferrule with plastic collar	mm ²	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm		
Rated current, max.	A	38	34
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG		24-8
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 38 A / 0.5 - 10 mm²
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

BVF 7.62HP../180MF2, BCF../R



Dimensioned drawing

Accessories

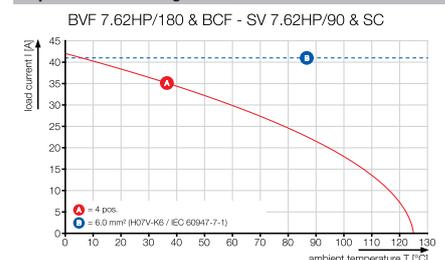
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000
Shielding	
BVF 7.62HP SH150 4-6 KIT	1118480000
BVF 7.62HP SH180 4-6 KIT	1118470000
BVF 7.62HP SH210 4-6 KIT	1118490000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
2 / 4	15.24	0.600	3.81	0.150	50	1081610000
2 / 6	15.24	0.600	7.62	0.300	45	1081030000
2 / 8	15.24	0.600	11.43	0.450	40	1157090000
3 / 4	22.86	0.900	3.81	0.150	40	1157110000
3 / 6	22.86	0.900	7.62	0.300	35	1157120000
3 / 8	22.86	0.900	11.43	0.450	30	1157130000

Representative deratings curve



BVF 7.62HP/./180MF3. BCF/..R

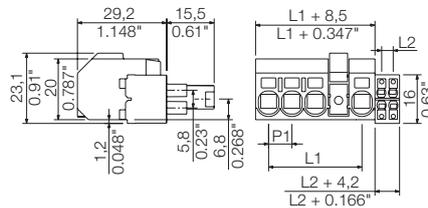


Dimensioned drawing

BVF 7.62HP/./180MF4. BCF/..R



Dimensioned drawing



Ordering data

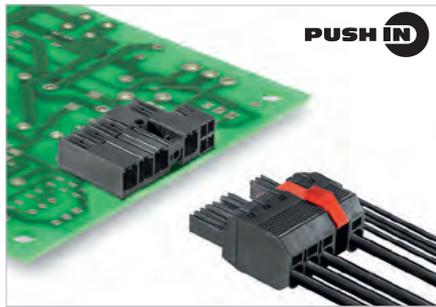
Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
3/4	22.86	0.900	3.81	0.150	40	1081630000
3/6	22.86	0.900	7.62	0.300	35	1081720000
3/8	22.86	0.900	11.43	0.450	30	1157170000
5/4	38.10	1.500	3.81	0.150	25	1157220000
5/6	38.10	1.500	7.62	0.300	25	1157230000
5/8	38.10	1.500	11.43	0.450	25	1157240000

Ordering data

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
4/4	30.48	1.200	3.81	0.150	30	1081150000
4/6	30.48	1.200	7.62	0.300	30	1082020000
4/8	30.48	1.200	11.43	0.450	25	1157200000
5/4	38.10	1.500	3.81	0.150	25	1082140000
5/6	38.10	1.500	7.62	0.300	25	1081760000
5/8	38.10	1.500	11.43	0.450	25	1157250000

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connection up to 6 mm²

BVF 7.62HP../180MSF & BCF 3.81



Hybrid female plug with power and signal contacts with "PUSH IN" connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. The self-fastening middle flange reduces the space requirements by one pole.

The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...10	
Solid core H05(07) V-U	mm²	0.5...10	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...10	
Flexible with ferrule	mm ²	1.5...6	
Ferrule with plastic collar	mm ²	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm		
Rated current, max.	A	38	34
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-8	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 38 A / 0.5 - 10 mm²
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmuller.com

Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

BVF 7.62HP../180MSF2. BCF../R



Dimensioned drawing

Accessories

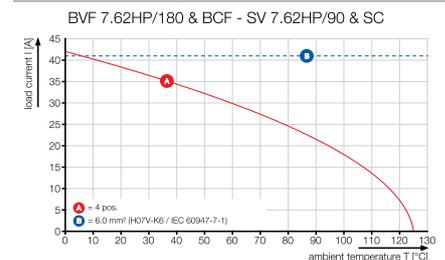
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000
Shielding	
BVF 7.62HP SH150 4-6 KIT	1118480000
BVF 7.62HP SH180 4-6 KIT	1118470000
BVF 7.62HP SH210 4-6 KIT	1118490000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
2 / 4	15.24	0.600	3.81	0.150	50	1081930000
2 / 6	15.24	0.600	7.62	0.300	45	1082080000
2 / 8	15.24	0.600	11.43	0.450	40	1157100000
3 / 4	22.86	0.900	3.81	0.150	40	1157440000
3 / 6	22.86	0.900	7.62	0.300	35	1157450000
3 / 8	22.86	0.900	11.43	0.450	30	1157470000

Representative deratings curve



BVF 7.62HP../180MSF3. BCF../R

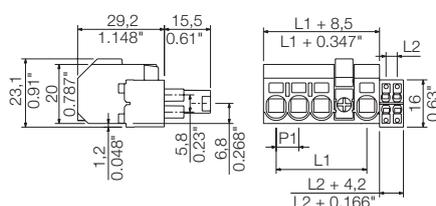


Dimensioned drawing

BVF 7.62HP../180MSF4. BCF../R



Dimensioned drawing



Ordering data

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
3/4	22.86	0.900	3.81	0.150	40	1082110000
3/6	22.86	0.900	7.62	0.300	35	1081730000
3/8	22.86	0.900	11.43	0.450	30	1157190000
5/4	38.10	1.500	3.81	0.150	25	1157270000
5/6	38.10	1.500	7.62	0.300	25	1157280000
5/8	38.10	1.500	11.43	0.450	25	1157290000

Ordering data

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1 (inch)	L2 (inch)	Qty.	Order No.		
4/4	30.48	1.200	3.81	0.150	30	1081660000
4/6	30.48	1.200	7.62	0.300	30	1081750000
4/8	30.48	1.200	11.43	0.450	25	1157210000
5/4	38.10	1.500	3.81	0.150	25	1080940000
5/6	38.10	1.500	7.62	0.300	25	1080720000
5/8	38.10	1.500	11.43	0.450	25	1157300000

OMNIMATE Power for IT systems – scalable up to 50 kVA

Custom-fit solutions for special requirements

Increased compliance with standards and fewer compromises: OMNIMATE Power for IT systems establishes a new level of excellence with its standard integrated details. These attributes streamline the design-in and approval processes and result in safer operations.

Results for the application and advantages for the user: unlimited use in 400-V IT systems and touch safety according to IEC 61800-5-1 (+ 5 mm). The self-snapping one-handed safety flange enables intuitive and safe usage. Operational reliability is guaranteed by the automatic interlock feature during the plug-in process. The application-oriented design means that no compromises are necessary during the approval process.

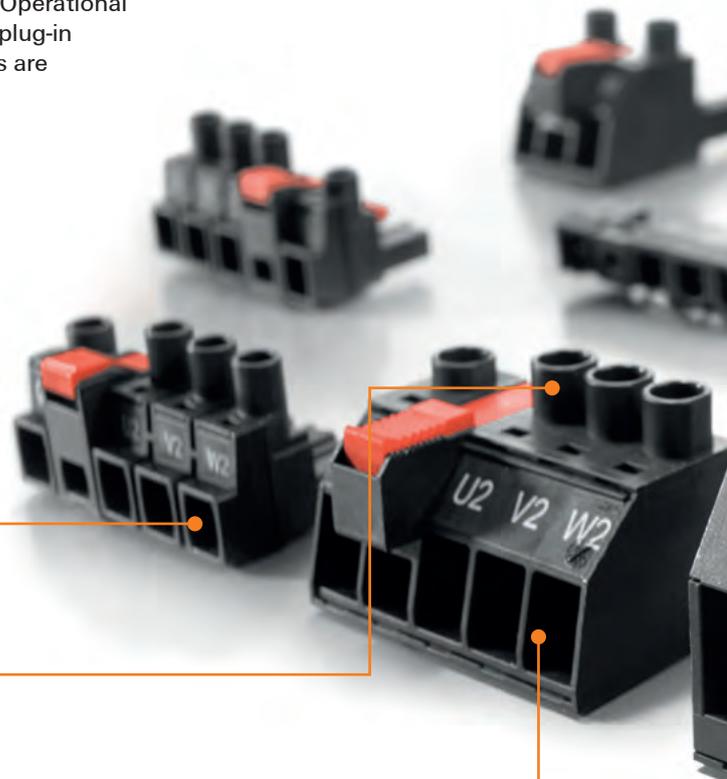
Uncompromised scalability

As much power as required, as little cost as needed: a device series for every power level and power type: scalable from 25 A/2.5 mm² to 41 A/6 mm² to 76 A/16 mm².



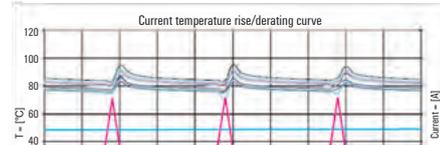
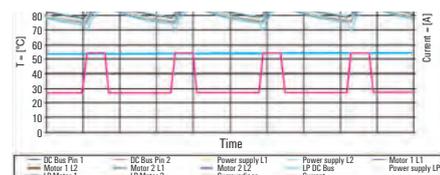
IEC 61800-5-1 approval

No additional measures or compromises in the system suitable, touch-safe certification according to IEC 61800-5-1:
+ 3.0 mm for 400 V TN systems,
+ 5.5 mm for 400 V IT networks.



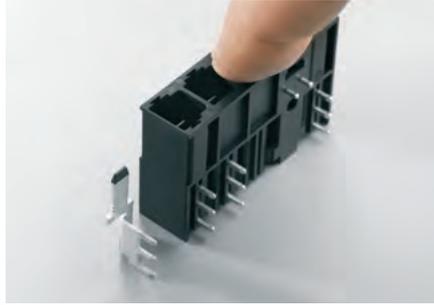
Uncompromised power capabilities

Uncompromised means high power reserves for superior overload capacity even under the high ambient temperatures of real-world applications.

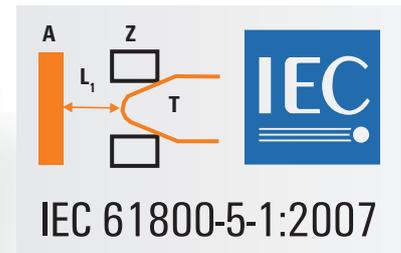


Uncompromised safety

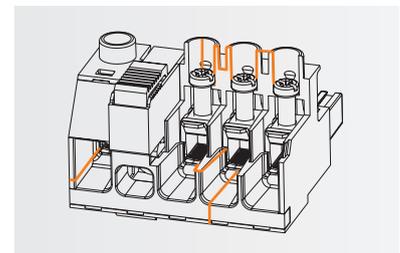
Details such as insulated contact tips that ensure the pin header is touch-safe and automatic snap-in for a secure interlocking connection.

**Finger safety according to DIN EN 61800-5-1**

Since the end of 2007, device approval according to IEC Directive "Adjustable speed electrical power drive systems – Part 5-1: Safety requirements" requires that – regardless of the line-to-earth voltage – an additional finger safety interval exists (for example, + 3 mm for 400 V-TN systems (wire-to-earth voltage = 230 V), or + 5.5 mm for 400-V IT systems (wire-to-earth voltage up to 400 V in event of error)). An additional cover is required if the connection system, as a device section, does not fulfil these requirements. The OMNIMATE Power HP product line already complies with the stricter IEC requirements for additional touch protection.

**Clearance and creepage distances, acc. to UL**

A 600-V connector must have the approval of the UL 1059 component directive – but the potential installation situations must first be taken into consideration. This allows you to avoid making approval compromises – such as UL 508C or incorporating complex additions such as coatings or protective hoods. The OMNIMATE Power HP product line already complies with the UL requirements for 600-V creepage and clearance distances.

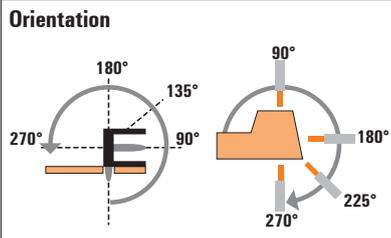
**UL approval without compromise**

No limitation for UL approval with 600-V applications: with optimised creepage and clearance distance even under difficult installation situations.

600 Vc  US

<http://www.OMNIMATE.net>

-  = Wire-to-Board
-  = Board-to-Board
-  = Wire-to-Wire
-  = Board-to-Wire



Pitch 7.62 mm



For IT networks



Type	SL	SL
Orientation	90°	90°
Flange options	MF2	MF3
Product code numbers	IEC: 630 V/24 A UL: 300 V/20 A	IEC: 630 V/24 A UL: 300 V/20 A
Page	I.30	I.31

Type	Orientation	Flange options	Product code numbers	Page	SL				
					SL	SL			
 <p>Screw Clamping yoke</p>	 <p>Female plug</p>		BLZ	180°	MF2	IEC: 630 V/24 A/0.08 - 4 mm ² UL: 300 V/20 A/AWG 28 - 12	I.32	 	
			BLZ	180°	MF3	IEC: 630 V/24 A/0.08 - 4 mm ² UL: 300 V/20 A/AWG 28 - 12	I.33		 
			BLZ	180°	MF4	IEC: 630 V/24 A/0.08 - 4 mm ² UL: 300 V/20 A/AWG 28 - 12	I.33		
			BVZ	180°	MF2	IEC: 1.000 V/41 A/0.2 - 6 mm ² UL: 300 V/35 A/AWG 24 - 10	I.38		
			BVZ	180°	MF3	IEC: 1.000 V/41 A/0.2 - 6 mm ² UL: 300 V/35 A/AWG 24 - 10	I.39		
			BVZ	180°	MF4	IEC: 1.000 V/41 A/0.2 - 6 mm ² UL: 300 V/35 A/AWG 24 - 10	I.39		
			BUZ	180°	MF2	IEC: 1.000 V/76 A/0.2 - 16 mm ² UL: 300 V/54 A/AWG 22 - 6	I.44		
			BUZ	180°	MF3	IEC: 1.000 V/76 A/0.2 - 16 mm ² UL: 300 V/54 A/AWG 22 - 6	I.45		
	BUZ	180°	MF4	IEC: 1.000 V/76 A/0.2 - 16 mm ² UL: 300 V/54 A/AWG 22 - 6	I.45				

MF2 = Centre snap flange at position 2
MF3 = Centre snap flange at position 3
MF4 = Centre snap flange at position 4

Male header



Solder connection

Pitch 7.62 mm

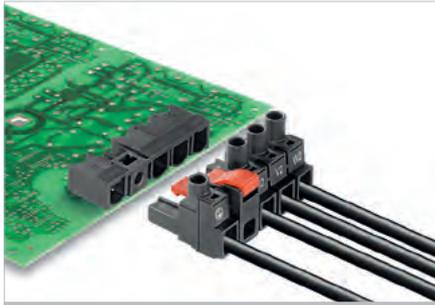
Pitch 10.16 mm



	SL	SV	SV	SV	SU	SU	SU
	90°	90° / 270°	90° / 270°	90° / 270°	90° / 270°	90° / 270°	90° / 270°
	MF4	MF2	MF3	MF4	MF2	MF3	MF4
	IEC: 630 V/24 A UL: 300 V/20 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/76 A UL: 300 V/54 A	IEC: 1.000 V/76 A UL: 300 V/54 A	IEC: 1.000 V/76 A UL: 300 V/54 A
	I.31	I.34	I.35	I.35	I.40	I.41	I.41
	○ ●						
		○ ●					
			○ ●				
				○ ●			
					○ ●		
						○ ●	
							○ ●



SL 7.62IT/./90MF



Male header available in 90° outlet direction with a leading PE contact for IT networks. UL approval according to UL 840 (600 V). Used together with the BLZ 7.62 IT female plug. It complies with the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1. When no female plug is present, the mating profile ensures at least 1 mm of finger protection with a test finger pressure of 20N.

The middle flange interlock feature decreases the space required by one pole when compared to other solutions.

Available on request with screw flange mounting block or without flange.

Product data

IEC: 630 V / 29 A
UL: 300 V / 20 A



For additional articles and information, refer to catalog.weidmueller.com

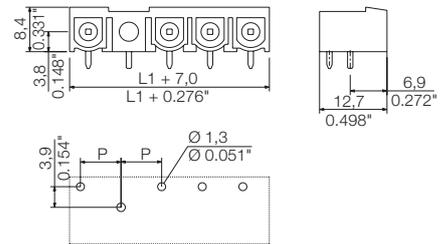
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SL 7.62IT/./90MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	29	25
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	400	500 630
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	20	20 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	20	20 5
AWG conductor	AWG		-
General data			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO BK BX	1545710000
	BLZ/SL KO OR BX	1573010000

Ordering data

Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	100	1173610000
3	22.86	0.900	100	1173640000
4	30.48	1.200	100	1173730000

SL 7.62IT../90MF3

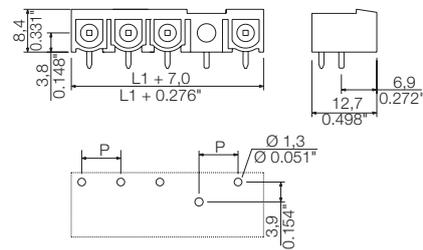
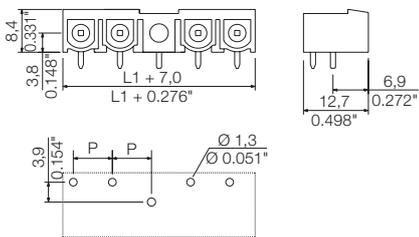
SL 7.62IT../90MF4



Dimensioned drawing



Dimensioned drawing



Ordering data

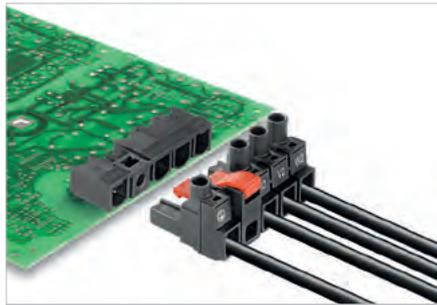
Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Order No.
3	22.86	0.900	1173690000

Ordering data

Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Order No.
4	30.48	1.200	1173770000

Connectors for IT systems in 7.62 mm pitch
Series BL/SL 7.62 IT - connection up to 4 mm²

BLZ 7.62IT../180MF



Female plug in 180° outlet direction for IT networks. Fulfills the requirements of UL 1059 600 V Class C. With a leading PE contact when used with SL 7.62 IT male header. Fulfills the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1.

The middle flange interlocks automatically and is optionally available with screw connection. It decreases the space required by one pole when compared to other solutions.

Available optionally without middle flange interlock.

Product data

IEC: 630 V / 29 A / 0.08 - 4 mm²
 UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to catalog.weidmueller.com

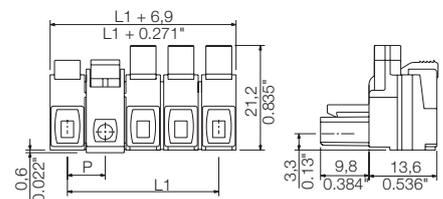
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

BLZ 7.62IT../180MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.08...4	
Solid core H05(07) V-U	mm²	0.08...4	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.08...4	
Flexible with ferrule	mm ²	0.2...2.5	
Ferrule with plastic collar	mm ²	0.2...2.5	
Stripping length	mm	7	
Screwdriver blade	mm	0.6 x 3.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.4...0.5	
Rated current, max.	A	29	25
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	2.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	400	500 630
Rated impulse voltage	kV	6	6 4
UL / CUL (Use Group)	B C D	B C D	B C D
Rated voltage	V	600	600 600
Rated current	A	20	20 5
AWG conductor	AWG	20-12	
CSA (Use Group)	B C D	B C D	B C D
Rated voltage	V	600	600 600
Rated current	A	20	20 5
AWG conductor	AWG	20-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

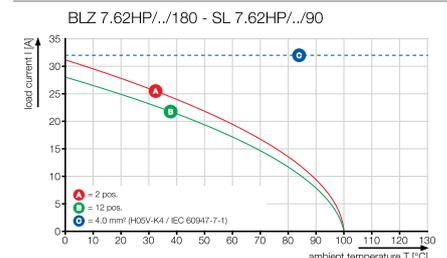
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO BK BX	1545710000
BLZ/SL KO OR BX	1573010000
Screwdriver	
SDIS 0.6X3.5X100	9008390000
SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	70	1173490000
3	22.86	0.900	50	1173500000
4	30.48	1.200	40	1173520000

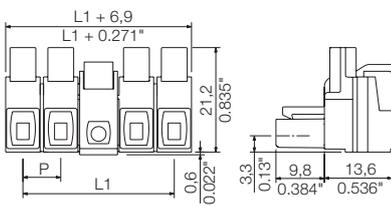
Representative deratings curve



BLZ 7.62IT../180MF3



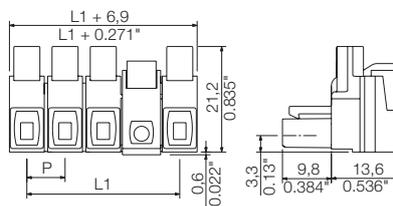
Dimensioned drawing



BLZ 7.62IT../180MF4



Dimensioned drawing



Ordering data

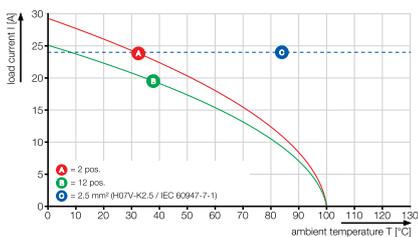
Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	50	1173510000

Ordering data

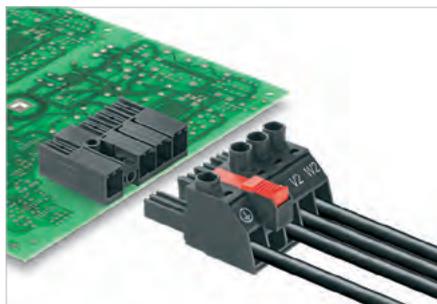
Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	40	1173530000

Additional deratings curves

BLZ 7.62HP../180 - SL 7.62HP../90



SV 7.62IT/./90MF



Male header in 90° outlet direction with a leading PE contact for IT networks. UL approval according to UL 840 for 600 V. Used together with a BVZ 7.62 IT female plug. It complies with the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1. When no female plug is present, the mating profile ensures at least 1 mm of finger protection with a test finger pressure of 20N.

The middle flange interlock feature decreases the space required by one pole when compared to other solutions.

Available on request with screw flange mounting block or without flange.

Product data

IEC: 1000 V / 41 A
UL: 300 V / 40.5 A



For additional articles and information, refer to catalog.weidmueller.com

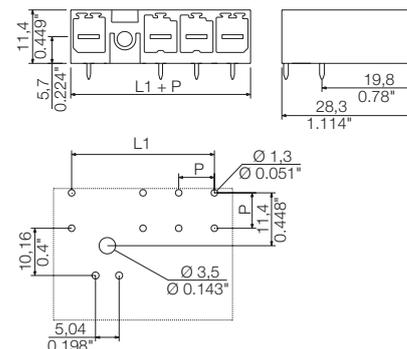
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62IT/./90MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	630 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000
	
Mounting foot	
BV/SV7.62HP MOFU GR	1937600000

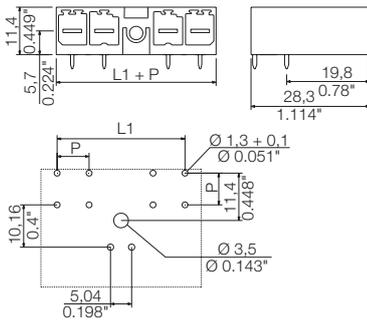
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	78	1156540000
3	22.86	0.900	60	1156550000
4	30.48	1.200	48	1156580000

SV 7.62IT../90MF3



Dimensioned drawing



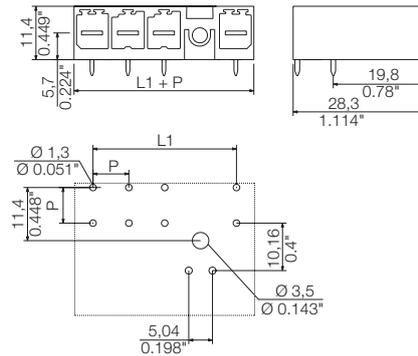
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
3	22.86	0.900	60 1156570000

SV 7.62IT../90MF4



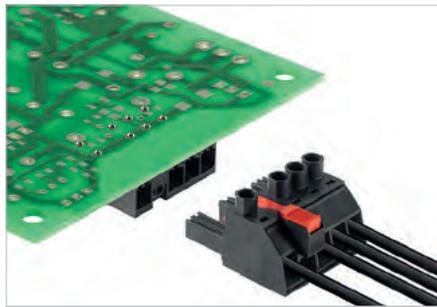
Dimensioned drawing



Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
4	30.48	1.200	48 1156590000

SV 7.62IT../270MF



Male header in 270° outlet direction with a leading PE contact for IT networks. UL approval according to UL 840 for 600 V. Used together with a BLZ 7.62 IT female plug, it complies with the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1. When no female header is present, the mating profile ensures at least 1 mm of finger protection with a test finger pressure of 20 N.

The middle flange interlock feature decreases the space required by one pole when compared to other solutions.

Available on request with screw flange mounting block or without flange.

Product data

IEC: 1000 V / 41 A
UL: 300 V / 40.5 A



For additional articles and information, refer to catalog.weidmueller.com

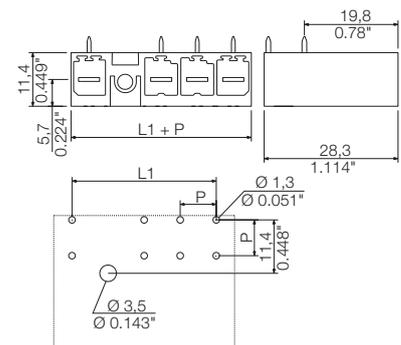
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62IT../270MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	
Solid core H05(07) V-U	mm²	
Stranded H07 V-R		
Flexible H05(07) V-K	mm ²	
Flexible with ferrule	mm ²	
Ferrule with plastic collar	mm ²	
Stripping length	mm	
Screwdriver blade	mm	

According to norm

Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C

For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2

Rated voltage	V	630	630	1000
Rated impulse voltage	kV	6	6	6

UL / CUL (Use Group)	B	C	D
-----------------------------	----------	----------	----------

Rated voltage	V	300	300	600
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Rated current	A	40.5	40.5	5
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AWG conductor	AWG			
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CSA (Use Group)	B	C	D
------------------------	----------	----------	----------

Rated voltage	V	300	300	600
---------------	---	-----	-----	-----

Rated current	A	35	35	5
---------------	---	----	----	---

AWG conductor	AWG			
---------------	-----	--	--	--

General data

Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	0.8 x 1.0
Solder eyelet Ø = D	mm	1.3
Solder eyelet Ø tolerance	mm	+ 0,1

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000
Mounting foot	
BV/SV7.62HP MOFU GR	1937600000

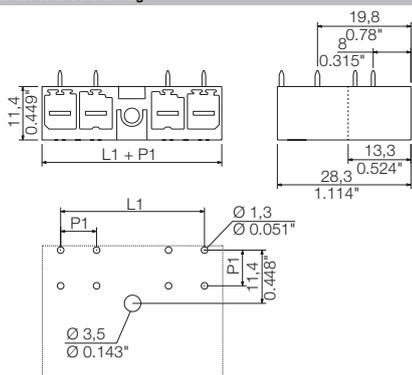
Ordering data

Solder pin length	3.5 mm			
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	78	1156490000
3	22.86	0.900	60	1156500000
4	30.48	1.200	48	1156520000

SV 7.62IT/./270MF3



Dimensioned drawing



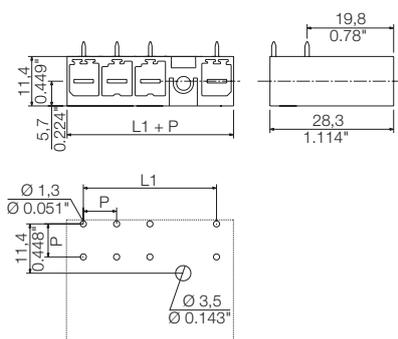
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty.
3	22.86	0.900	60
Order No.		1156510000	

SV 7.62IT/./270MF4



Dimensioned drawing

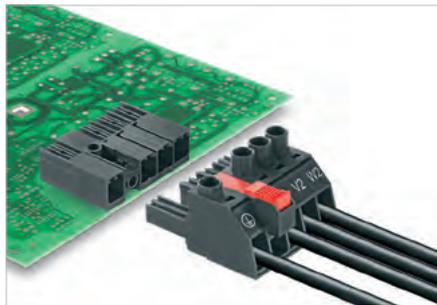


Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty.
4	30.48	1.200	48
Order No.		1156530000	



BVZ 7.62IT../180MF



Female plug in 180° outlet direction for IT networks. Fulfils the requirements of UL 1059 for 600 V Use Group C. With leading PE contact when used with SV 7.62 IT male header. Fulfils the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1.

The middle flange interlocks automatically and is optionally available with screw connection. It decreases the space required by one pole when compared to other solutions.

Available optionally without middle flange interlock.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.2...6	
Solid core H05(07) V-U	mm²	0.2...6	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...6	
Flexible with ferrule	mm ²	0.25...6	
Ferrule with plastic collar	mm ²	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.5...0.6	
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG	24-8	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmueller.com

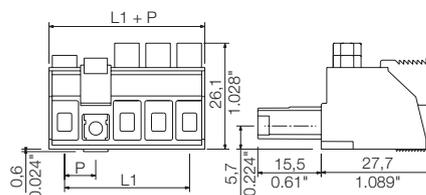
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

BVZ 7.62IT../180MF2



Dimensioned drawing



Accessories

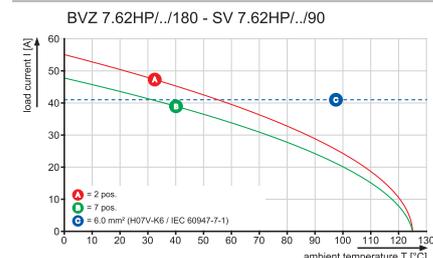
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000
Strain relief	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	52	1156710000
3	22.86	0.900	40	1156720000
4	30.48	1.200	32	1156740000

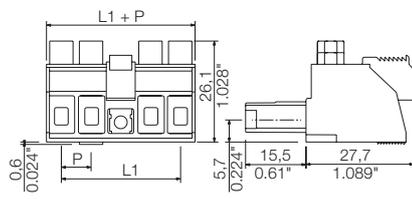
Representative deratings curve



BVZ 7.62IT../180MF3



Dimensioned drawing



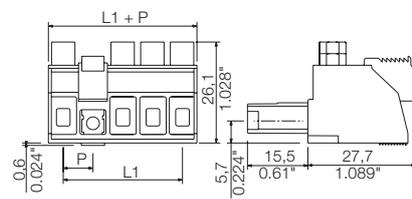
Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	40	1156730000

BVZ 7.62IT../180MF4



Dimensioned drawing

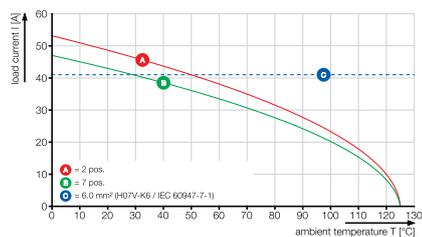


Ordering data

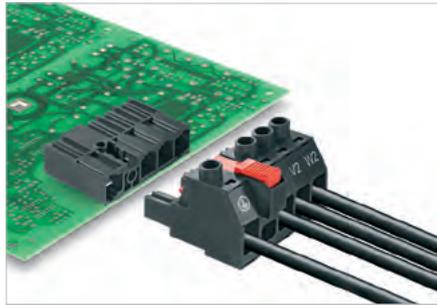
Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	32	1156750000

Additional deratings curves

BVZ 7.62HP../180 - SV 7.62HP../180



SU 10.16IT../90MF



Male header in 90° outlet direction with a leading PE contact for IT networks. UL approval according to UL 840 for 600 V. Used together with a BUZ 10.16 IT female plug. It complies with the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1. When no female plug is present, the mating profile ensures at least 1 mm of finger protection with a test finger pressure of 20 N.

The middle flange interlock feature decreases the space required by one pole when compared to other solutions.

Available on request with screw flange mounting block or without flange.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	76	72
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	690	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	54	54 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	54	54 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A
UL: 300 V / 54 A



For additional articles and information, refer to catalog.weidmueller.com

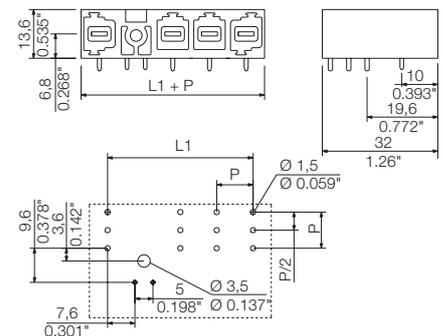
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SU 10.16IT../90MF2



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
K0 BV/SV7.62	1824410000

Ordering data

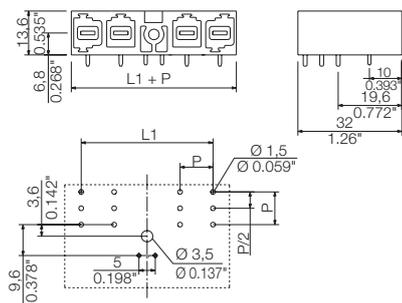
Solder pin length		3.5 mm	
Colour		Black	
Pitch 10.16 mm			
Pol.	L1 (inch)	Qty.	Order No.
2	20.32	60	1156650000
3	30.48	42	1156670000
4	40.64	36	1156690000

SU 10.16IT../90MF3

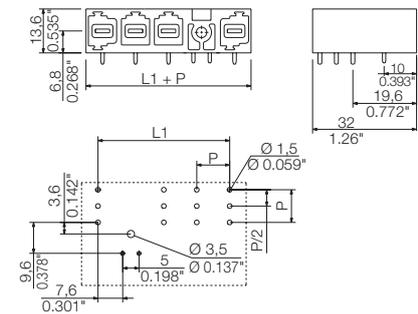
SU 10.16IT../90MF4



Dimensioned drawing



Dimensioned drawing



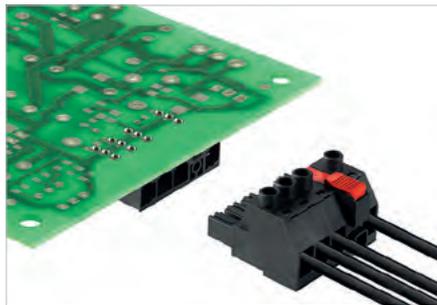
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty.
3	30.48	1.200	42
Order No.		1156680000	

Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty.
4	40.64	1.600	36
Order No.		1156700000	

SU 10.16IT../270MF



Male header in 270° outlet direction with a leading PE contact for IT networks. UL approval according to UL 840 for 600 V. Used together with a BUZ 10.16 IT female plug. It complies with the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1. When no female plug is present, the mating profile ensures at least 1 mm of finger protection with a test finger pressure of 20 N.

The middle flange interlock feature decreases the space required by one pole when compared to other solutions.

Available on request with screw flange mounting block or without flange.

Product data

IEC: 1000 V / 76 A
UL: 300 V / 54 A



For additional articles and information, refer to catalog.weidmueller.com

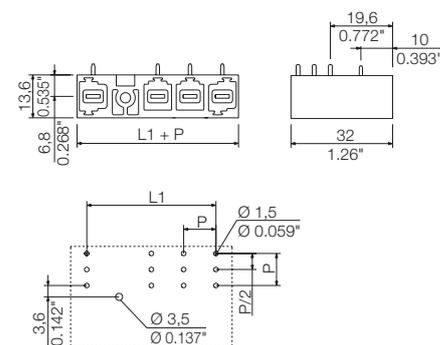
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SU 10.16IT../270MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	76	72
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	690	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	54	54 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	54	54 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
K0 BV/SV7.62	1824410000

Ordering data

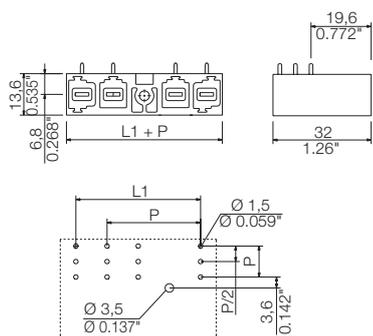
Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
2	20.32	0.800	60 1157310000
3	30.48	1.200	42 1157320000
4	40.64	1.600	36 1157340000

SU 10.16IT../270MF3

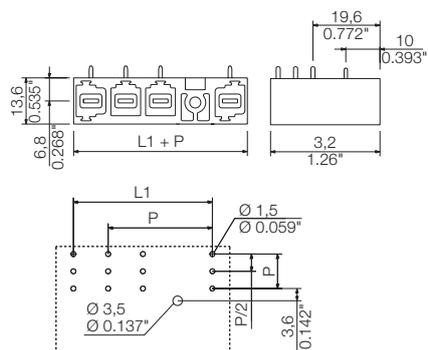
SU 10.16IT../270MF4



Dimensioned drawing



Dimensioned drawing



Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty.
3	30.48	1.200	42
Order No.		1157330000	

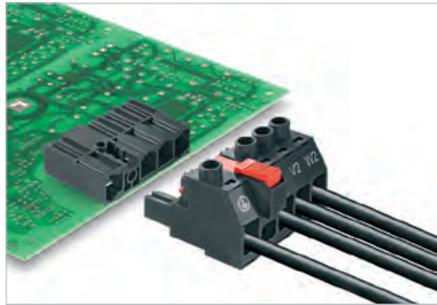
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty.
4	40.64	1.600	36
Order No.		1157350000	



Connectors for IT systems in 10.16 mm pitch
Series BU/SU 10.16 IT - connection up to 16 mm²

BUZ 10.16IT../180MF



Female plug in 180° outlet direction for IT networks. Fulfils the requirements of UL 1059 for 600 V Use Group C with leading PE contact when used with SU 10.16 IT male header. Fulfils the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1.

The middle flange interlocks automatically and is optionally available with screw connection. It decreases the space required by one pole when compared to other solutions.

Available optionally without middle flange interlock.

Product data

IEC: 1000 V / 78 A / 0.2 - 16 mm²
 UL: 300 V / 54 A / AWG 22 - 6



For additional articles and information, refer to catalog.weidmuller.com

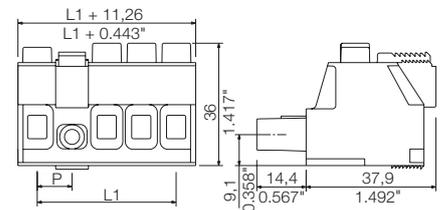
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

BUZ 10.16IT../180MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...16
Solid core H05(07) V-U	mm²	0.2...16
Stranded H07 V-R	mm ²	6...16
Flexible H05(07) V-K	mm ²	0.5...16
Flexible with ferrule	mm ²	0.25...16
Ferrule with plastic collar	mm ²	0.25...10
Stripping length	mm	12
Screwdriver blade	mm	1.0 x 5.5
According to norm		DIN 5264
Tightening torque range	Nm	1.2...1.5
Rated current, max.	A	78 72
At ambient temperature		20°C 40°C
For conductor cross-section	mm ²	16
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	1000 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	300 600 600
Rated current	A	54 54 5
AWG conductor	AWG	22-6
CSA (Use Group)	B C D	
Rated voltage	V	300 600 600
Rated current	A	54 54 5
AWG conductor	AWG	22-6

General data

Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Cu-Leg
Material of contact surface	silver-plated
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

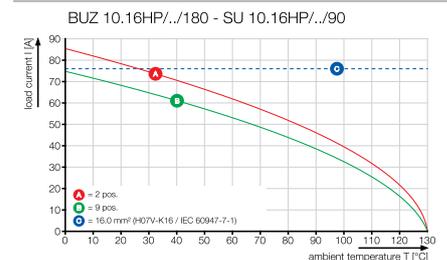
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
_____	KO BV/SV7.62 1824410000
Screwdriver	
_____	SDIS 1.0X5.5X125 9008410000
Crosshead screwdriver	
_____	SDIK PZ2 9008890000
_____	SDK PZ2 9008540000

Ordering data

Solder pin length				
Colour	Black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	20.32	0.800	30	1156600000
3	30.48	1.200	21	1156610000
4	40.64	1.600	18	1156630000

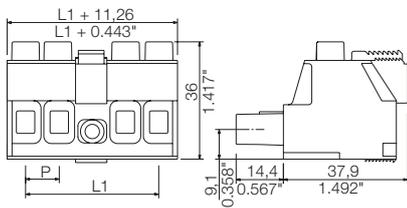
Representative deratings curve



BUZ 10.16IT../180MF3



Dimensioned drawing



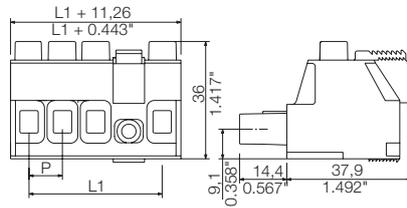
Ordering data

Solder pin length				
Colour				Black
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
3	30.48	1.200	21	1156620000

BUZ 10.16IT../180MF4



Dimensioned drawing

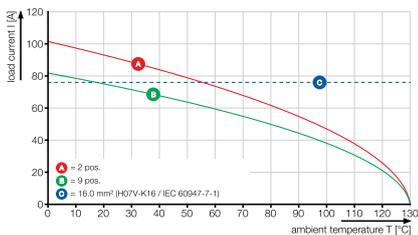


Ordering data

Solder pin length				
Colour				Black
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	40.64	1.600	18	1156640000

Additional deratings curves

BUZ 10.16HP../180 - SU 10.16HP../180

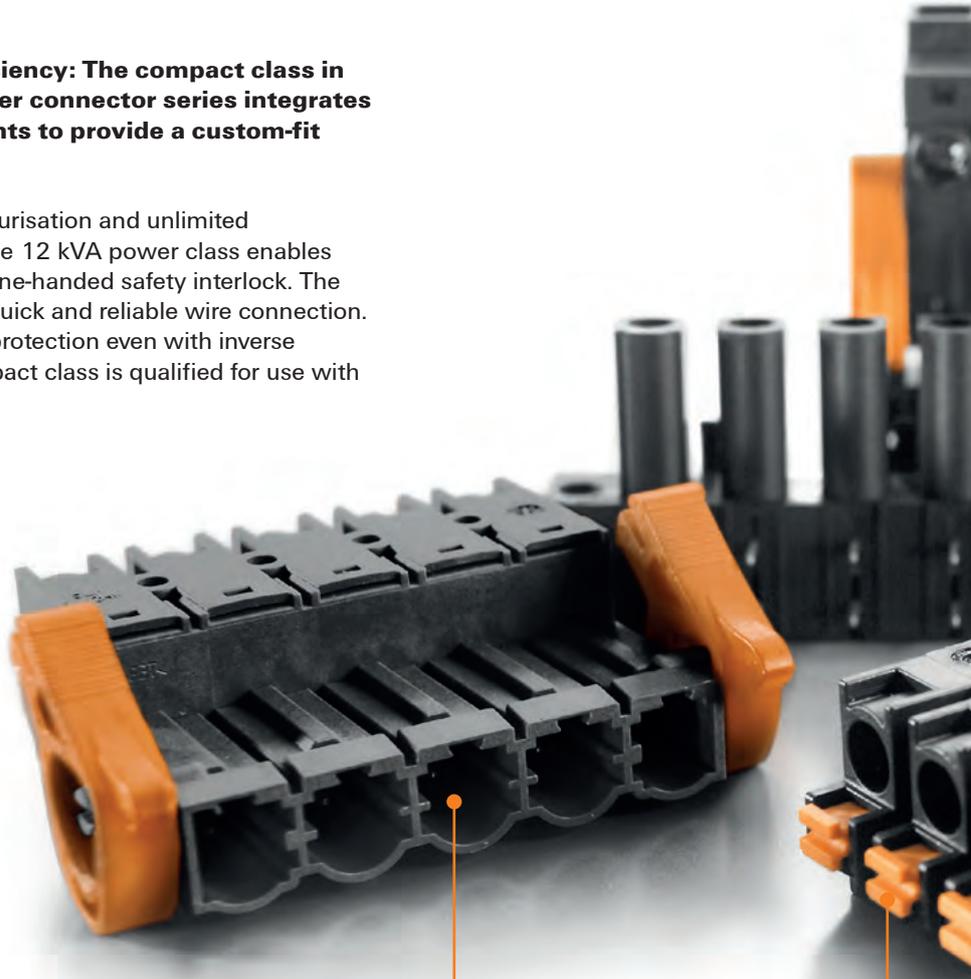


OMNIMATE Power BL/SL 7.62HP – the 12 kVA power class

Custom-fit solutions for compact devices

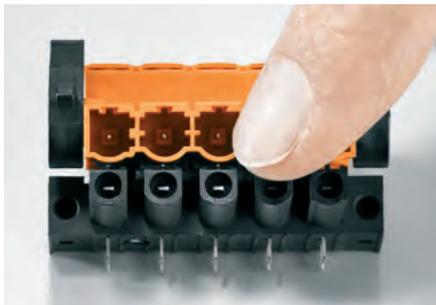
Compact power for more safety and efficiency: The compact class in the OMNIMATE Power BL/SL 7.62HP power connector series integrates previously-conflicting market requirements to provide a custom-fit solution for drive applications.

This closes the gap between increasing miniaturisation and unlimited 600 V UL approval. The system extension to the 12 kVA power class enables a touch-safe, inverted motor connection with one-handed safety interlock. The "PUSH IN" connection system also provides a quick and reliable wire connection. Doublesided touch protection guarantees full protection even with inverse voltages. Thus even OMNIMATE Power's compact class is qualified for use with the DC link bus.



Compact safety

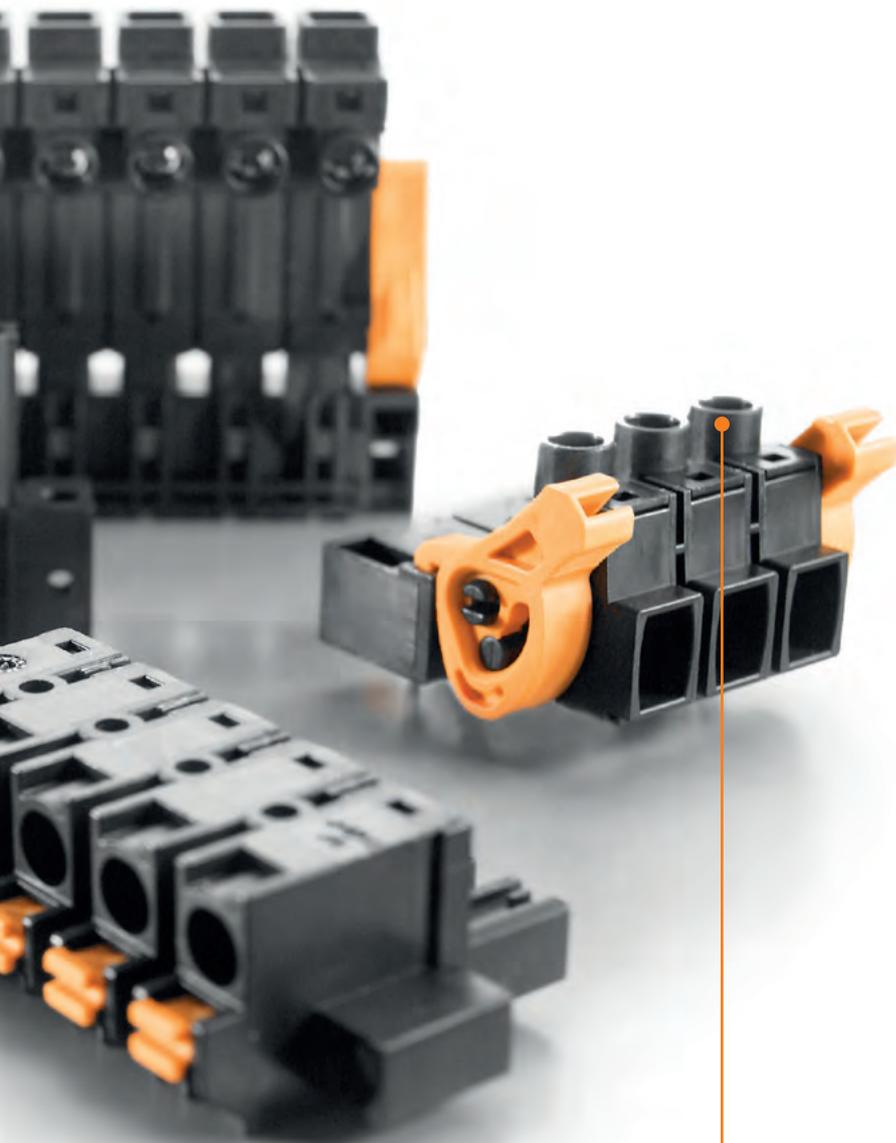
No additional measures required for DC links or inverse voltage: the inverted versions have finger-safe male header and female header even when not plugged in.



Compact reliability

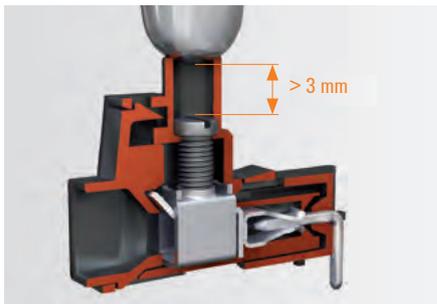
Maintenance-free and vibration-proof connections: quick and simple "PUSH IN" connections, or the self-fastening Weidmüller steel clamp with plus/minus screw and "Wire Guard".





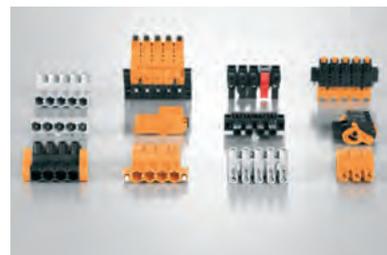
Compact integration

No compromises during design and approval: compact and standard-compliant with additional + 3.0 mm finger safety, according to IEC 61800-5-1, and increased creepage and clearance distances according to UL.



Compact system power

An overview of OMNIMATE Power's 12 kVA class: The compact system with either standard or inverted mating profile, with screw or "PUSH IN" wire connection; optionally with lock & release lever, screw flange or one-handed safety interlock.



Unrivalled current-carrying capacity

The highest load capacity in the 12 kVA compact class: with up to 29 A current-carrying capacity at 1.000 V (IEC) with a 4 mm² wire cross-section or 18.5 A at 600 V according to UL.



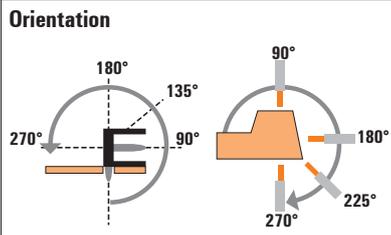
Individualised configuration

Standard + Services = custom design with simple configuration across the entire range of services: features include colour coding, application-oriented labelling and custom modifications or design. More information can be found at <http://galaxy.weidmueller.com>



<http://www.OMNIMATE.net>

-  = Wire-to-Board
-  = Board-to-Board
-  = Wire-to-Wire
-  = Board-to-Wire



Male header



Solder connection



BL/SL 7.62 series



Type	SL	SL	
	Orientation	90°	180°
	Flange options	G/F/LF	G/F/LF
	Product code numbers		
	IEC: 800 V/24 A UL: 300 V/20 A	IEC: 800 V/24 A UL: 300 V/20 A	
Page	1.50	1.52	

Female plug	Type	Orientation	Flange options	Product code numbers	Page	Type	
						SL	SL
Screw Clamping yoke	 BLZ	180°	(G)/LR	IEC: 630 V/24 A/0.08 - 2.5 mm ² UL: 600 V/20 A/AWG 20 - 12	1.58		
	 BLF	180°	(G)/F/LR	IEC: 1.000 V/24 A/0.08 - 2.5 mm ² UL: 300 V/20 A/AWG 20	1.60		
Solder connection	 BLL	90°	(G)/F/LF	IEC: 630 V/24 A UL: 300 V/20 A	1.62		
	 BLL	180°	(G)/F/LF	IEC: 630 V/24 A UL: 300 V/20 A	1.64		

Female plug and header:
(G) = Closed (without flange)
F = Screw flange with screw
LR = Lock & Release lever

Male header and plug:
G = Closed (without flange)
F = Screw flange with nut
LF = Solder flange with nut
LR = Lock & Release lever

Male plug	
	
Screw Clamping yoke	Spring PUSH IN

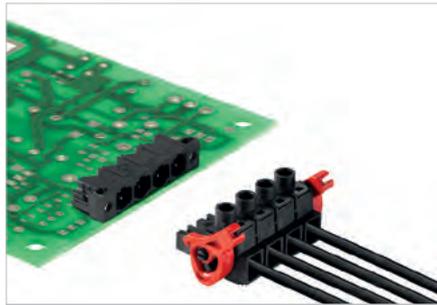


	SLZ	SLF
	180°	180°
	G/F/LR	G/F/LR
	IEC: 1.000 V/24 A/ 0.08 - 2.5 mm ² UL: 600 V/17 A/ AWG 20 - 12	IEC: 1.000 V/24 A/ 0.08 - 2.5 mm ² UL: 600 V/20 A/ AWG 20 - 12
	1.55	1.57
	●	●
	●	●



Connectors in 7.62 mm pitch
Series BL/SL 7.62 - connects up to 4 mm²

SL 7.62HP/./90



Male header in 90° outlet direction. The compact and efficient solution for UL-600 V applications in the lower power range meets in conjunction with a female plug, the 600 V requirements for UL 508 / UL 840 and the increased need for touch-safe protection according to IEC 68100-5-1.

- Available with screw flange (F) and a solder flange (SF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	29	25
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	400	500 630
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	20	20 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	20	20 5
AWG conductor	AWG		-
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 630 V / 29 A
 UL: 300 V / 20 A



For additional articles and information, refer to catalog.weidmueller.com

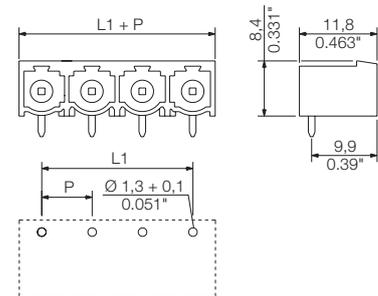
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 7.62HP/./90G



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO BK BX	1545710000
	BLZ/SL KO OR BX	1573010000

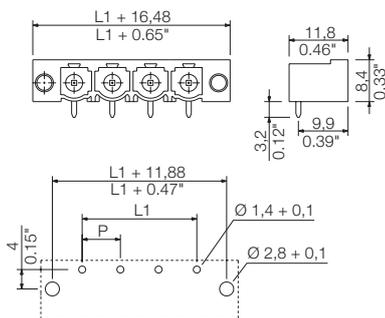
Ordering data

Solder pin length		3.2 mm		
Colour		Black		
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1026760000
3	15.24	0.600	100	1026770000
4	22.86	0.900	100	1026780000
5	30.48	1.200	50	1026790000
6	38.10	1.500	50	1059490000
7	45.72	1.800	50	1059500000
8	53.34	2.100	50	1059510000
9	60.96	2.400	50	1059520000
10	68.58	2.700	50	1059530000
11	76.20	3.000	50	1059550000
12	83.82	3.300	50	1059570000

SL 7.62HP/./90F



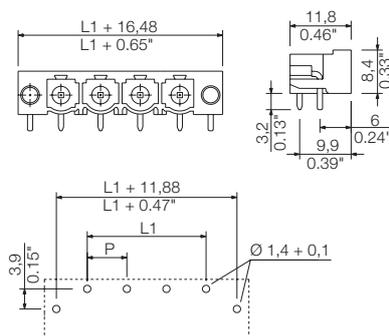
Dimensioned drawing



SL 7.62HP/./90LF



Dimensioned drawing



Ordering data

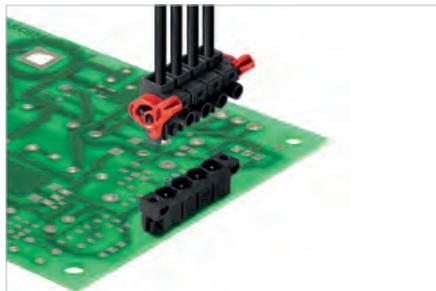
Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Order No.
2	7.62	0.300	100 1026850000
3	15.24	0.600	100 1026860000
4	22.86	0.900	100 1026870000
5	30.48	1.200	50 1026880000
6	38.10	1.500	50 1124250000
7	45.72	1.800	50 1124270000
8	53.34	2.100	50 1124280000
9	60.96	2.400	50 1124290000
10	68.58	2.700	50 1124300000
11	76.20	3.000	50 1124310000
12	83.82	3.300	50 1124320000

Ordering data

Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Order No.
2	7.62	0.300	100 1095920000
3	15.24	0.600	100 1095930000
4	22.86	0.900	100 1095940000
5	30.48	1.200	50 1095950000
6	38.10	1.500	50 1095960000
7	45.72	1.800	50 1095970000
8	53.34	2.100	50 1095980000
9	60.96	2.400	50 1095990000
10	68.58	2.700	50 1096000000
11	76.20	3.000	50 1096010000
12	83.82	3.300	50 1096020000

Connectors in 7.62 mm pitch
Series BL/SL 7.62 - connects up to 4 mm²

SL 7.62HP/./180



Male header in 180° outlet direction. The compact and efficient solution for UL-600 V applications in the lower power range meets in conjunction with a female plug, the 600 V requirements for UL 508 / UL 840 and the increased need for touch-safe protection according to IEC 68100-5-1.

- Available with screw flange (F) and a solder flange (SF).

Product data

IEC: 630 V / 29 A
 UL: 300 V / 20 A



For additional articles and information, refer to catalog.weidmueller.com

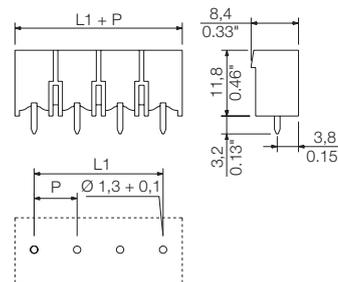
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 7.62HP/./180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	29	25
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	400	500 630
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	20	20 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	20	20 5
AWG conductor	AWG		-
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO BK BX	1545710000
	BLZ/SL KO OR BX	1573010000

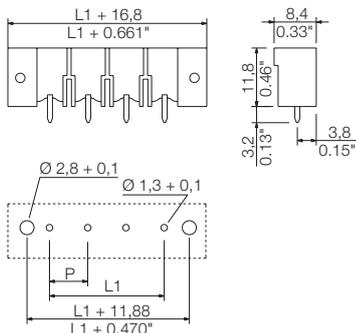
Ordering data

Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1122550000
3	15.24	0.600	100	1122570000
4	22.86	0.900	100	1122580000
5	30.48	1.200	50	1048980000
6	38.10	1.500	50	1048990000
7	45.72	1.800	50	1122590000
8	53.34	2.100	50	1049000000
9	60.96	2.400	50	1122600000
10	68.58	2.700	50	1122610000
11	76.20	3.000	50	1122640000
12	83.82	3.300	50	1122650000

SL 7.62HP../180F



Dimensioned drawing



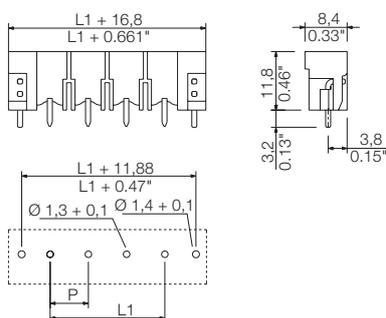
Ordering data

Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Order No.
2	7.62	0.300	1140870000
3	15.24	0.600	1140880000
4	22.86	0.900	1140890000
5	30.48	1.200	1140900000
6	38.10	1.500	1140910000
7	45.72	1.800	1140920000
8	53.34	2.100	1140930000
9	60.96	2.400	1140940000
10	68.58	2.700	1140950000
11	76.20	3.000	1140960000
12	83.82	3.300	1140970000

SL 7.62HP../180LF



Dimensioned drawing

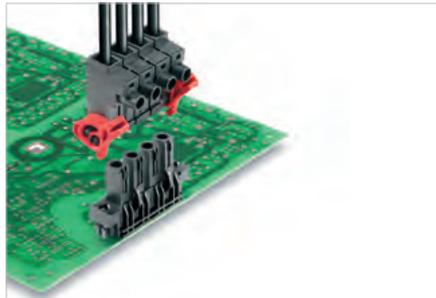


Ordering data

Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Order No.
2	7.62	0.300	1141090000
3	15.24	0.600	1141100000
4	22.86	0.900	1141110000
5	30.48	1.200	1141120000
6	38.10	1.500	1141130000
7	45.72	1.800	1141140000
8	53.34	2.100	1141150000
9	60.96	2.400	1141160000
10	68.58	2.700	1141170000
11	76.20	3.000	1141180000
12	83.82	3.300	1141190000

Connectors in 7.62 mm pitch
Series BL/SL 7.62 - connects up to 4 mm²

SLZ 7.62HP/./180



Male plug with clamping yoke screw connection in 180° outlet direction. Also perfect for finger-safe solutions involving inverse voltages. Complies with UL 1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC(S) systems.

- Available with screw flange (F) and lock and release-levers (LR).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.08...2.5	
Solid core H05(07) V-U	mm²	0.5...2.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...2.5	
Flexible with ferrule	mm ²	0.5...2.5	
Ferrule with plastic collar	mm ²	0.5...1.5	
Stripping length	mm	8	
Screwdriver blade	mm	0.6 x 3.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.4...0.5	
Rated current, max.	A	20	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	2.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	1000 1000
Rated impulse voltage	kV	6	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	17	17 5
AWG conductor	AWG	20-12	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	17	17 5
AWG conductor	AWG	20-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 20 A / 0.5 - 2.5 mm²
 UL: 600 V / 17 A / AWG 20 - 12



For additional articles and information, refer to catalog.weidmuller.com

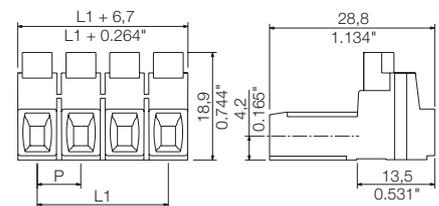
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLZ 7.62HP/./180G



Dimensioned drawing



Accessories

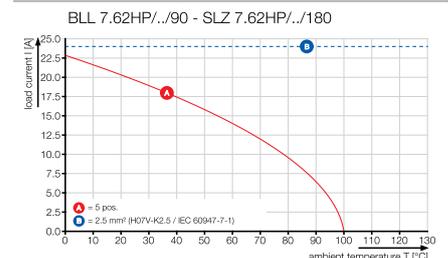
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	126	1043350000
3	15.24	0.600	84	1043360000
4	22.86	0.900	60	1043370000
5	30.48	1.200	48	1043380000

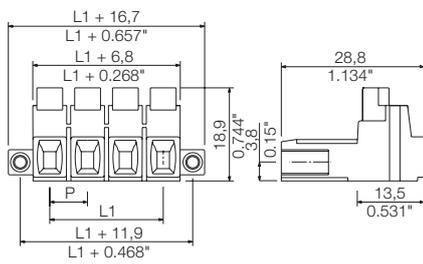
Representative deratings curve



SLZ 7.62HP../180F



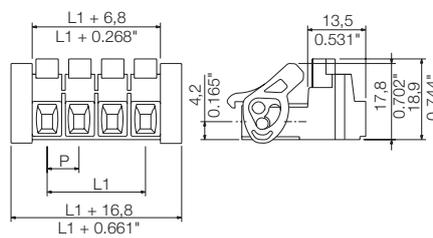
Dimensioned drawing



SLZ 7.62HP../180LR



Dimensioned drawing



Ordering data

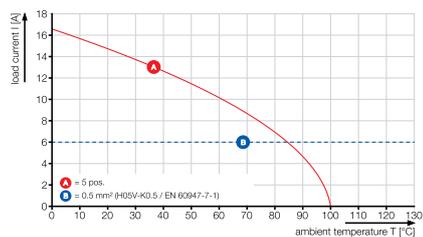
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043430000	
3	15.24	0.600	54	1043440000	
4	22.86	0.900	42	1043450000	
5	30.48	1.200	36	1043460000	

Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043510000	
3	15.24	0.600	54	1043520000	
4	22.86	0.900	42	1043530000	
5	30.48	1.200	36	1043540000	

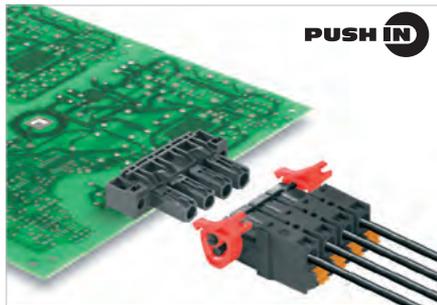
Additional deratings curves

BLL 7.62HP../90 - SLZ 7.62HP../180



Connectors in 7.62 mm pitch
Series BL/SL 7.62 - connects up to 4 mm²

SLF 7.62HP../180



Male plug with "PUSH IN" spring connection in 180° outlet direction. Also perfect for finger-safe solutions involving inverse voltages. Complies with UL 1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC systems.

- Available with screw flange (F) and lock and release-levers (LR).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.08...2.5	
Solid core H05(07) V-U	mm ²	0.5...2.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...2.5	
Flexible with ferrule	mm ²	0.5...1.5	
Ferrule with plastic collar	mm ²	0.5...1.5	
Stripping length	mm	10	
Screwdriver blade	mm	0.6 x 3.5	
According to norm		DIN 5264	
Tightening torque range	Nm		
Rated current, max.	A	24	23.8
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	2.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	1000 1000
Rated impulse voltage	kV	6	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	20	20 5
AWG conductor	AWG	20-12	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	20	20 5
AWG conductor	AWG	20-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 24 A / 0.5 - 2.5 mm²
 UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to catalog.weidmuller.com

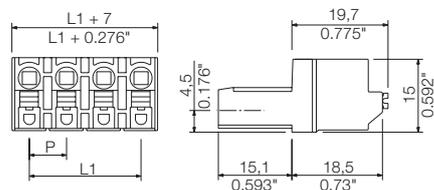
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLF 7.62HP../180G



Dimensioned drawing



Accessories

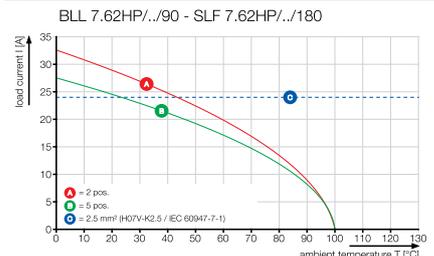
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length					
Colour	Black				
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	126	1043590000	
3	15.24	0.600	84	1043600000	
4	22.86	0.900	60	1043610000	
5	30.48	1.200	48	1043620000	

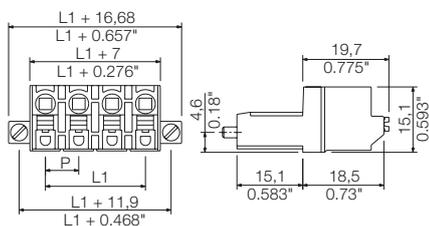
Representative deratings curve



SLF 7.62HP../180F



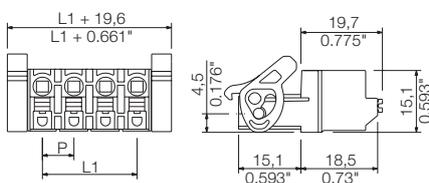
Dimensioned drawing



SLF 7.62HP../180LR



Dimensioned drawing



Ordering data

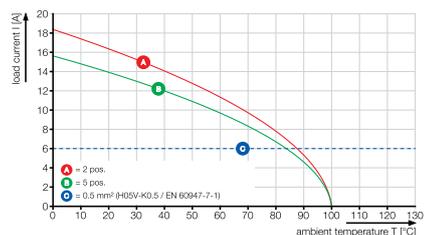
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043670000	
3	15.24	0.600	54	1043680000	
4	22.86	0.900	42	1043690000	
5	30.48	1.200	36	1043700000	

Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043750000	
3	15.24	0.600	54	1043760000	
4	22.86	0.900	42	1043770000	
5	30.48	1.200	36	1043780000	

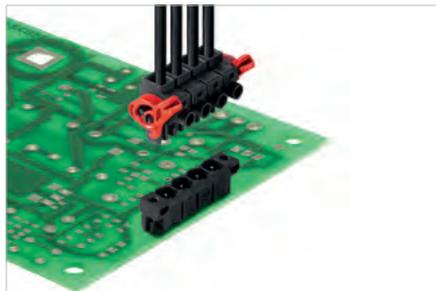
Additional deratings curves

BLL 7.62HP../90 - SLF 7.62HP../180



Connectors in 7.62 mm pitch
Series BL/SL 7.62 - connects up to 4 mm²

BLZ 7.62HP../180



Female plug with clamping yoke screw connection in 180° outlet direction. Complies with UL 1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC(S) systems.

- Available with lock and release-levers (LR) and screw flange on request.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.08...4	
Solid core H05(07) V-U	mm²	0.2...4	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...4	
Flexible with ferrule	mm ²	0.2...2.5	
Ferrule with plastic collar	mm ²	0.2...2.5	
Stripping length	mm	7	
Screwdriver blade	mm	0.6 x 3.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.4...0.5	
Rated current, max.	A	29	25
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	2.5	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	400	500 630
Rated impulse voltage	kV	6	6 4
UL / CUL (Use Group)	B C D	B	C D
Rated voltage	V	600	600 600
Rated current	A	20	20 5
AWG conductor	AWG	20-12	
CSA (Use Group)	B C D	B	C D
Rated voltage	V	600	600 600
Rated current	A	20	20 5
AWG conductor	AWG	20-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 630 V / 29 A / 0.2 - 4 mm²
 UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to catalog.weidmuller.com

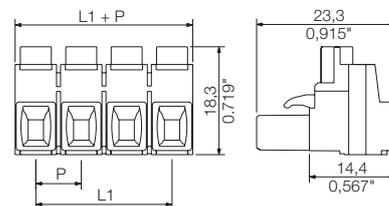
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLZ 7.62HP../180



Dimensioned drawing



Accessories

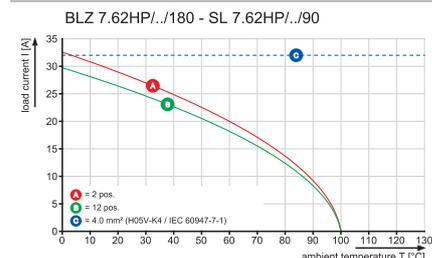
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO BK BX	1545710000
BLZ/SL KO OR BX	1573010000
Screwdriver	
SDIS 0.6X3.5X100	9008390000
SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1059580000
3	15.24	0.600	100	1059590000
4	22.86	0.900	100	1059600000
5	30.48	1.200	50	1049010000
6	38.10	1.500	50	1049020000
7	45.72	1.800	50	1059610000
8	53.34	2.100	50	1049030000
9	60.96	2.400	50	1059620000
10	68.58	2.700	50	1059630000
11	76.20	3.000	50	1059640000
12	83.82	3.300	50	1059670000

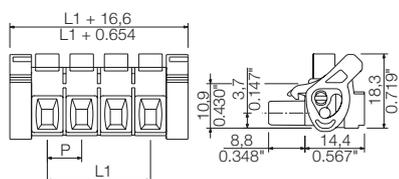
Representative deratings curve



BLZ 7.62HP/./180LR



Dimensioned drawing

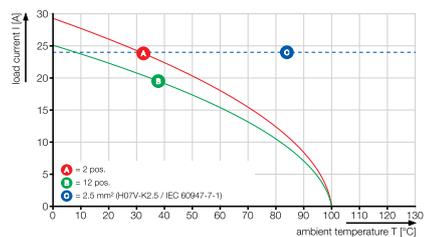


Ordering data

Solder pin length				
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	60	1093430000
3	15.24	0.600	45	1093440000
4	22.86	0.900	35	1093450000
5	30.48	1.200	30	1093460000
6	38.10	1.500	25	1164960000
7	45.72	1.800	20	1164970000
8	53.34	2.100	20	1164980000
9	60.96	2.400	15	1164990000
10	68.58	2.700	15	1165000000
11	76.20	3.000	15	1165010000
12	83.82	3.300	15	1165020000

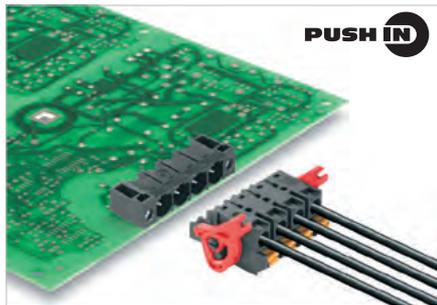
Additional deratings curves

BLZ 7.62HP/./180 - SL 7.62HP/./90



Connectors in 7.62 mm pitch
Series BL/SL 7.62 - connects up to 4 mm²

BLF 7.62HP../180



Female plug with "PUSH IN" spring connection in 180° outlet direction. Complies with UL 1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC(S) systems.

- Available with screw flange (F) and lock and release-levers (LR).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.08...2.5	
Solid core H05(07) V-U	mm²	0.5...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...2.5	
Flexible with ferrule	mm ²	0.5...2.5	
Ferrule with plastic collar	mm ²	0.5...2.5	
Stripping length	mm	10	
Screwdriver blade	mm	0.6 x 3.5	
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	24	23.8
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	2.5	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	1000 1000
Rated impulse voltage	kV	6	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	20	20 5
AWG conductor	AWG	20-12	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	21	21 5
AWG conductor	AWG	20-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 24 A / 0.5 - 1.5 mm²
 UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to catalog.weidmuller.com

Note:

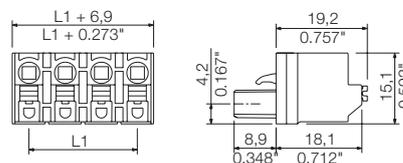
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLF 7.62HP../180

with test point



Dimensioned drawing



Accessories

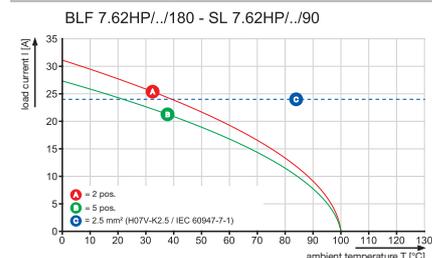
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.5X3.0X100	9008380000
	SDS 0.5X3.0X80	9008320000
Crimping tool		
	PZ 6/5	9011460000

Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	126	1043830000	
3	15.24	0.600	78	1043840000	
4	22.86	0.900	60	1043850000	
5	30.48	1.200	48	1043860000	
6	38.10	1.500	36	1227340000	
7	45.72	1.800	30	1227350000	
8	53.34	2.100	30	1227360000	
9	60.96	2.400	24	1227370000	
10	68.58	2.700	24	1227380000	
11	76.20	3.000	18	1227390000	
12	83.82	3.300	18	1227410000	

Representative deratings curve

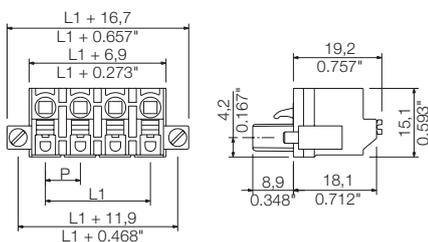


BLF 7.62HP../180F

with test point



Dimensioned drawing

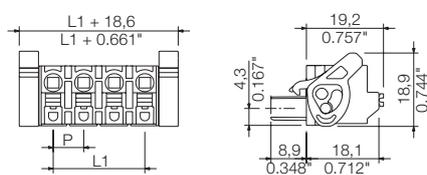


BLF 7.62HP../180LR

with test point



Dimensioned drawing



Ordering data

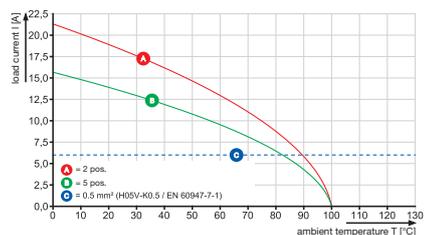
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043910000	
3	15.24	0.600	54	1043920000	
4	22.86	0.900	42	1043930000	
5	30.48	1.200	36	1043940000	
6	38.10	1.500	30	1227490000	
7	45.72	1.800	24	1227510000	
8	53.34	2.100	24	1227520000	
9	60.96	2.400	18	1227530000	
10	68.58	2.700	18	1227540000	

Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043990000	
3	15.24	0.600	54	1044000000	
4	22.86	0.900	42	1044010000	
5	30.48	1.200	36	1044020000	
6	38.10	1.500	30	1227420000	
7	45.72	1.800	24	1227430000	
8	53.34	2.100	24	1227440000	
9	60.96	2.400	18	1227450000	
10	68.58	2.700	18	1227460000	

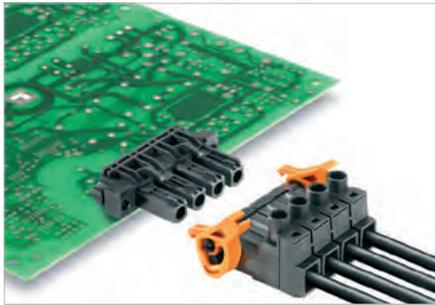
Additional deratings curves

BLF 7.62HP../180 - SL 7.62HP../90



Connectors in 7.62 mm pitch
Series BL/SL 7.62 - connects up to 4 mm²

BLL 7.62HP../90



Touch-safe female header in 90° outlet direction. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL 508 / UL 840 for 600 V. An ideal touch-safe solution for power output and DC link applications. According to IEC 61800-5-1, the mating profile ensures more than 3 mm of touch safety.

- Available with screw flange (F) and solder flange (LF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	24	24
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	400	630 630
Rated impulse voltage	kV	6	6 4
UL / CUL (Use Group)	B C D		
Rated voltage	V	300	150 300
Rated current	A	20	20 10
AWG conductor	AWG		-
CSA (Use Group)	B C D		
Rated voltage	V	300	150 300
Rated current	A	20	20 10
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.4 x 1.00	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 630 V / 24 A
 UL: 300 V / 20 A



For additional articles and information, refer to catalog.weidmuller.com

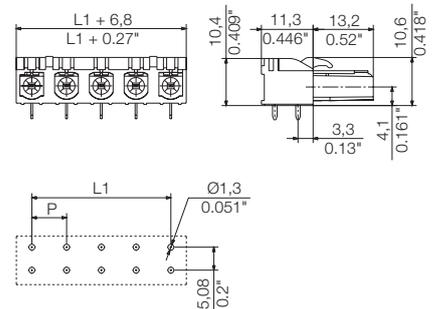
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLL 7.62HP../90G



Dimensioned drawing



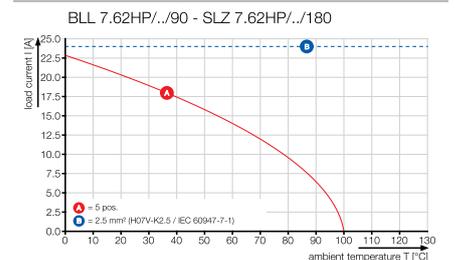
Accessories

Note: Refer to the Accessories chapter for additional accessories.

Ordering data

Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	126 1043230000
3	15.24	0.600	84 1043240000
4	22.86	0.900	60 1043250000
5	30.48	1.200	48 1043260000

Representative deratings curve



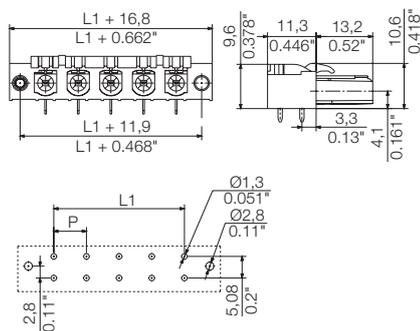
7.62

90°

BLL 7.62HP../90F



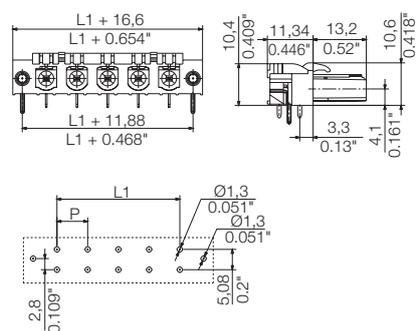
Dimensioned drawing



BLL 7.62HP../90LF



Dimensioned drawing



Ordering data

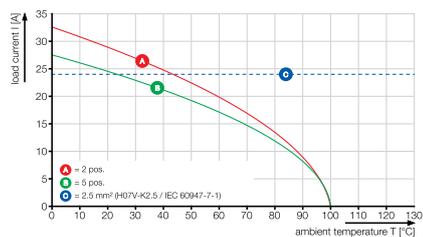
Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	72	1043270000
3	15.24	0.600	54	1043280000
4	22.86	0.900	42	1043290000
5	30.48	1.200	36	1043300000

Ordering data

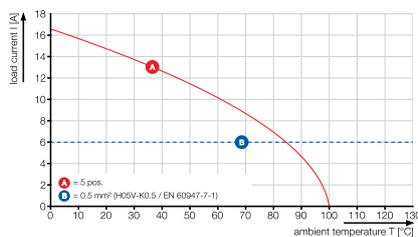
Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	72	1095640000
3	15.24	0.600	54	1095650000
4	22.86	0.900	42	1095660000
5	30.48	1.200	36	1095670000

Additional deratings curves

BLL 7.62HP../90 - SLF 7.62HP../180

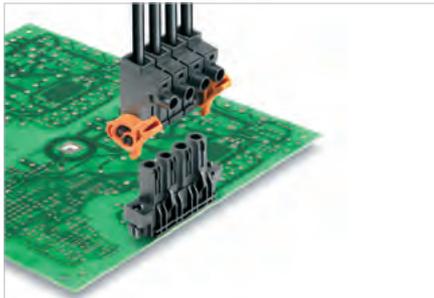


BLL 7.62HP../90 - SLZ 7.62HP../180



Connectors in 7.62 mm pitch
Series BL/SL 7.62 - connects up to 4 mm²

BLL 7.62HP../180



Touch-safe female header in 180° outlet direction. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL 508 / UL 840 for 600 V. An ideal touch-safe solution for power output and DC link applications. According to IEC 61800-5-1, the mating profile ensures more than 3 mm of touch safety.

- Available with screw flange (F) and solder flange (LF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	24	24
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	400	630 630
Rated impulse voltage	kV	6	6 4
UL / CUL (Use Group)	B C D		
Rated voltage	V	300	150 300
Rated current	A	20	20 10
AWG conductor	AWG		-
CSA (Use Group)	B C D		
Rated voltage	V	300	150 300
Rated current	A	20	20 10
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.4 x 1.00	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 630 V / 24 A
 UL: 300 V / 20 A



For additional articles and information, refer to catalog.weidmueller.com

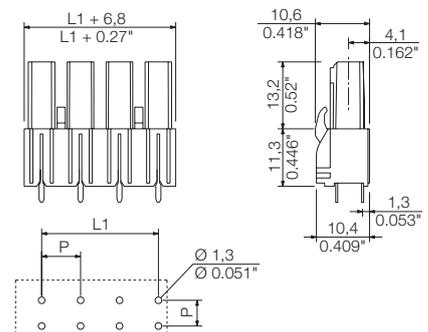
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLL 7.62HP../180G



Dimensioned drawing



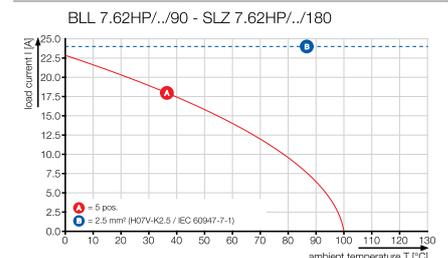
Accessories

Note: Refer to the Accessories chapter for additional accessories.

Ordering data

Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	126 1122070000
3	15.24	0.600	84 1122080000
4	15.24	0.600	60 1122090000
5	30.48	1.200	48 1122100000

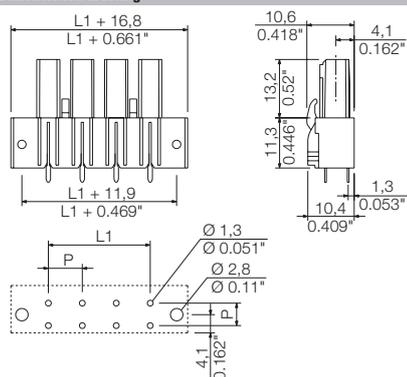
Representative deratings curve



BLL 7.62HP../180F



Dimensioned drawing



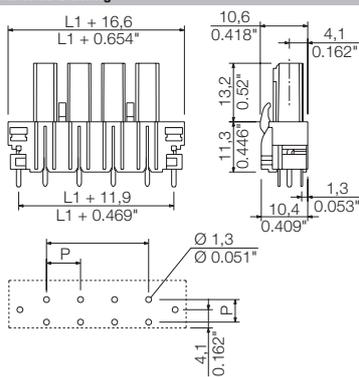
Ordering data

Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	72 1122110000
3	15.24	0.600	54 1122120000
4	22.86	0.900	42 1122130000
5	30.48	1.200	36 1122140000

BLL 7.62HP../180LF



Dimensioned drawing

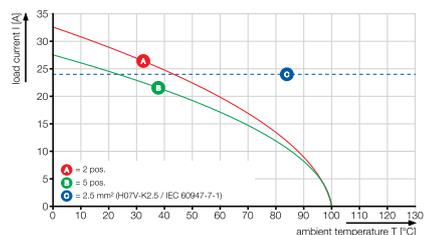


Ordering data

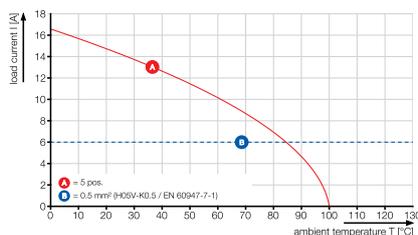
Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
2	7.62	0.300	72 1134080000
3	15.24	0.600	54 1134090000
4	22.86	0.900	42 1134110000
5	30.48	1.200	36 1134120000

Additional deratings curves

BLL 7.62HP../90 - SLF 7.62HP../180



BLL 7.62HP../90 - SLZ 7.62HP../180

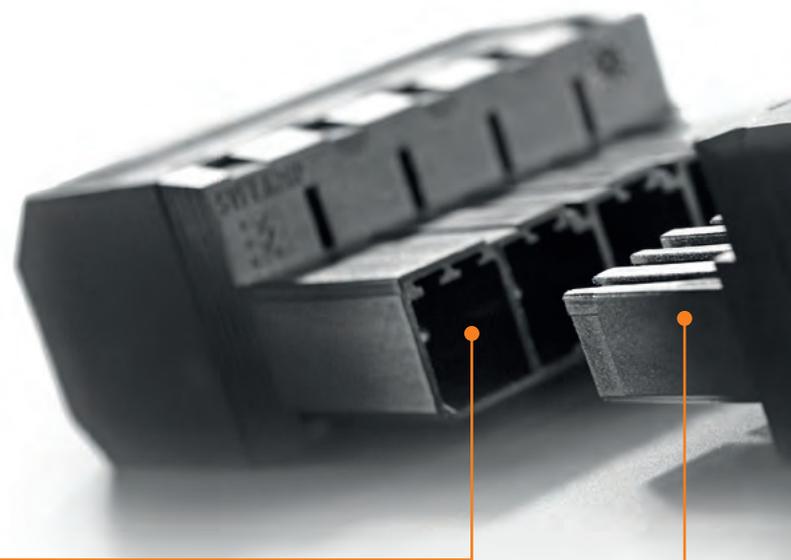


OMNIMATE Power BV / SV 7.62HP – the 28 kVA power class

Custom-fit high-powered solutions

More power reserves for more load capacity: The OMNIMATE Power SV / BV 7.62HP mid-level class of power connection systems is the top performer of the HP series. It features a large clamping range, increased overload capacity and the widest selection of variants and accessories.

HP means High Performance – this performance covers a great deal: the full rated current up to 50 °C without derating, unlimited 600 V approval according to UL, and the additional finger safety for 400 V-TN systems (+ 3.0 mm) in compliance with the application directive IEC 61800-5-1.



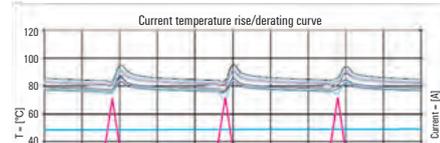
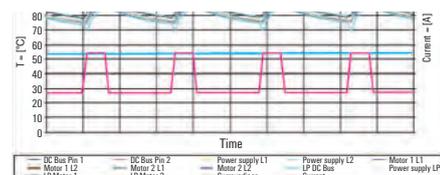
Maximum safety

Safe for both man and machine with bi-directional finger safety: also when not plugged in and covering inverse voltages from power electronics.



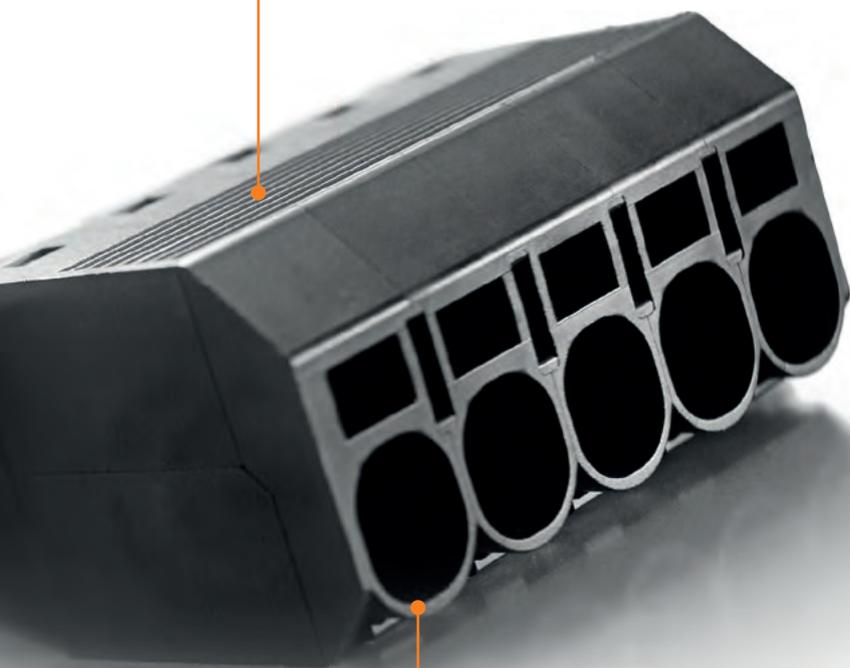
Maximum performance

Full current rating at 40 °C ambient temperature is a mandatory requirement in drive applications. What really makes the difference here is real-world, application-based overload and over-heating capacities.



Maximum user-friendliness

Quick, simple plug and release: with the one-handed safety flange – convenient for the user and safe for the application.



Maximum efficiency

Tool-free simplicity: quick "PUSH IN" connection mechanism and automatic, convenient snap-in with one-handed safety interlock.



High system performance

An overview of the 28-kVA class of OMNIMATE Power: The HP system has been leading the way with its tool-free rapid interlock, installation-safe creepage and clearance distances, and application-based versioning scheme. This integrated strategy of system expansion includes a one-handed safety flange and wide range of innovative extras.



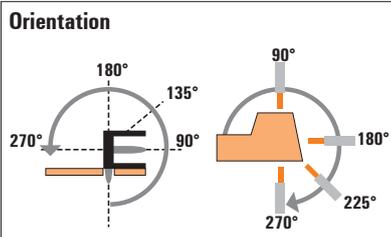
Individualised configuration

Standard + Services = custom design with simple configuration across the entire range of services: features include colour coding, application-oriented labelling and custom modifications or design.



<http://www.OMNIMATE.net>

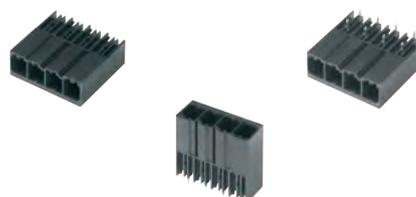
○ = Wire-to-Board
 ● = Board-to-Board
 ○ = Wire-to-Wire
 ● = Board-to-Wire



Male header



Solder connection



BV/SV 7.62 series



Type	SV 90°	SV 180°	SV 270°
Orientation	90°	180°	270°
Flange options	G/F/SF/MF/MSF	G/F/SF/MF/MSF	G/F/SF/MF/MSF
Product code numbers	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A
Page	I.70	I.74	I.78

		SV 90°	SV 180°	SV 270°
Female plug	Screw Clamping yoke	BVZ 180° (G)/F/SF IEC: 1.000 V/41 A/0.2 - 6 mm ² UL: 600 V/35 A/AWG 24 - 10 I.100	○	○
		BVZ 180° FC/SFC IEC: 1.000 V/41 A/0.2 - 6 mm ² UL: 600 V/35 A/AWG 24 - 10 I.101		
		BVZ 180° SH... IEC: 1.000 V/41 A/0.2 - 6 mm ² UL: 600 V/35 A/AWG 24 - 10 I.102	○	○
		BVZ 180° SH... C IEC: 1.000 V/41 A/0.2 - 6 mm ² UL: 600 V/35 A/AWG 24 - 10 I.104		
	Spring PUSH IN	BVF 180° (G)/F/SF/MF/MSF IEC: 1.000 V/41 A/0.2 - 10 mm ² UL: 600 V/35 A/AWG 24 - 10 I.107	○	○
Female header	Solder connection	BVL 90° (G)/FI/SFI IEC: 1.000 V/41 A UL: 300 V/35 A I.112	●	●
		BVL 180° (G)/FI/SFI IEC: 1.000 V/41 A UL: 300 V/35 A I.114	●	●
		BVL 270° (G)/FI/SFI IEC: 1.000 V/41 A UL: 300 V/35 A I.116	●	●

Female plug and header:

- (G) = Closed (without flange)
- F = Flange with clasp
- SF = Flange with clasp and additional screw
- SFC = Flange with clasp and additional screw
- FI = Inverted flange with clasp
- SFI = Inverted flange with clasp and additional screw
- FC = Flange with clasp
- SH... = Shielded flange with additional nut
- SH... C = Shielded flange with additional screw
- MF = Centre flange for clasp
- MSF = Centre flange for clasp with additional nut

Male plug



**Screw
Clamping yoke**



**Spring
PUSH IN**



	SVZ	SVZ	SVZ	SVZ	SVZ	SVZ	SVF	SVF	SVF
	180°	180°	180°	180°	180°	180°	180°	180°	180°
	G/F/SF	G/FC/SFC	G/FI/SFI	SH	SH	SH	G/F/SF	G/FI/SFI	MF/MSF
	IEC: 1.000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.5 - 10 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.5 - 10 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.5 - 10 mm ² UL: 600 V/35 A/ AWG 24 - 10
	1.82	1.84	1.86	1.88	1.89	1.90	1.92	1.94	1.96
	●			●	●		●		
		●			●				
	●			●			●		
		●							
	●			●	●		●		●
	●		●			●		●	
	●		●			●		●	
	●		●			●		●	

Male header and plug:

- G = Closed (without flange)
- F = Flange with clasp
- SF = Flange with clasp and additional screw
- FI = Inverted flange with clasp
- SFI = Inverted flange with clasp and additional screw
- FC = Flange with clasp

- SFC = Flange with clasp and additional screw
- SH... = Shielded flange with additional nut
- MF = Centre flange for clasp
- MSF = Centre flange for clasp with additional nut

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

SV 7.62HP../90



Male header in 90° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capability and additional fastening mechanism.

- Available with a flange (F), screw flange (SF) and middle screw flange (MF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	630 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A
 UL: 300 V / 40.5 A



For additional articles and information, refer to catalog.weidmueller.com

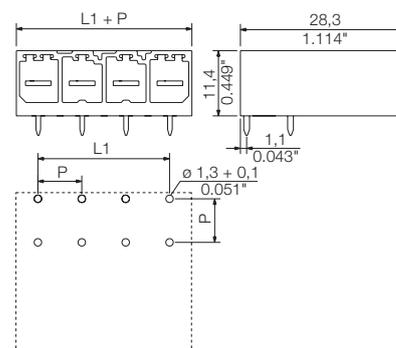
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SV 7.62HP../90G



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
BV/SV 7.62HP KO		1937590000

Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1930270000
3	15.24	0.600	100	1930280000
4	22.86	0.900	100	1930290000
5	30.48	1.200	50	1930300000
6	38.10	1.500	50	1930310000
7	45.72	1.800	50	1930320000

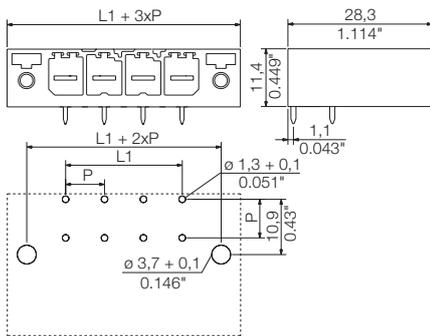
SV 7.62HP../90F



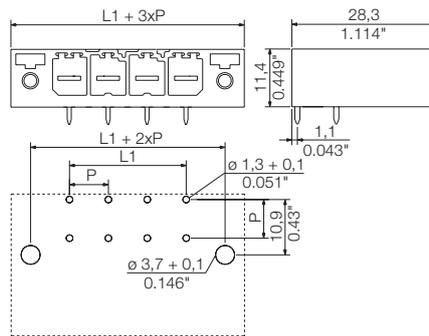
SV 7.62HP../90SF



Dimensioned drawing



Dimensioned drawing



Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1930380000
3	15.24	0.600	100	1930390000
4	22.86	0.900	100	1930400000
5	30.48	1.200	50	1930410000
6	38.10	1.500	50	1930420000
7	45.72	1.800	50	1930430000

Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1930490000
3	15.24	0.600	100	1930500000
4	22.86	0.900	100	1930510000
5	30.48	1.200	50	1930520000
6	38.10	1.500	50	1930530000
7	45.72	1.800	50	1930540000

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

SV 7.62HP/./90MF



Male header in 90° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capability and additional fastening mechanism.

- Available with a flange (F), screw flange (SF) and middle screw flange (MF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtolerance category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	630 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A
 UL: 300 V / 40.5 A



For additional articles and information, refer to catalog.weidmuller.com

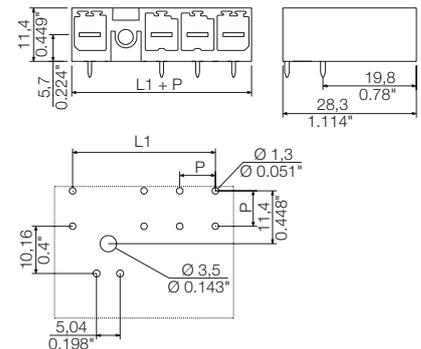
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62HP/./90MF2



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

Ordering data

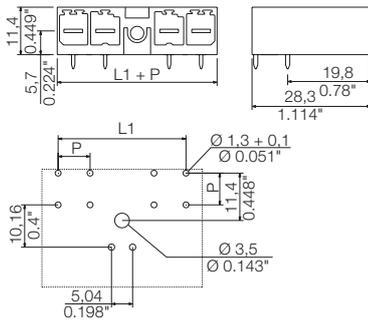
Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1 (inch)	Qty.	Order No.	
2	15.24	78	1048390000	
3	22.86	60	1048500000	
4	30.48	48	1464270000	
5	38.10	36	1464280000	

SV 7.62HP../90MF3

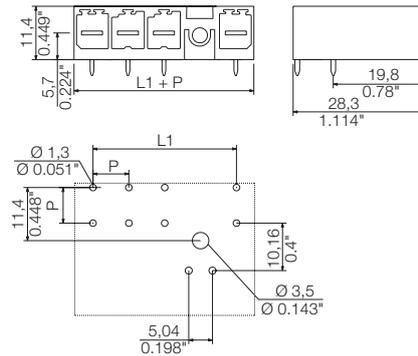
SV 7.62HP../90MF4



Dimensioned drawing



Dimensioned drawing



Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
3	22.86	0.900	60 1048490000
4	30.48	1.200	48 1048570000
5	38.10	1.500	36 1048690000

Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
4	30.48	1.200	48 1464290000
5	38.10	1.500	36 1048680000
6	45.72	1.800	30 1048760000

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

SV 7.62HP../180



Male header in 180° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capability, additional fastening mechanism, and integrated positioning.

- Available with a flange (F), screw flange (SF) and middle screw flange (MF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	630 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A
 UL: 300 V / 40.5 A



For additional articles and information, refer to catalog.weidmueller.com

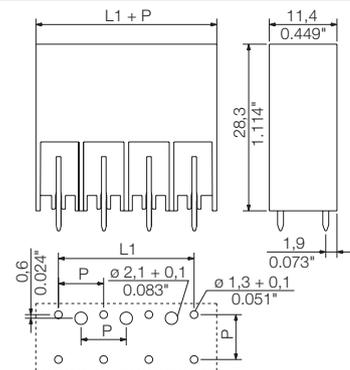
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SV 7.62HP../180G



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Protection against twisting		
	VDS180 SV7.62	1853940000

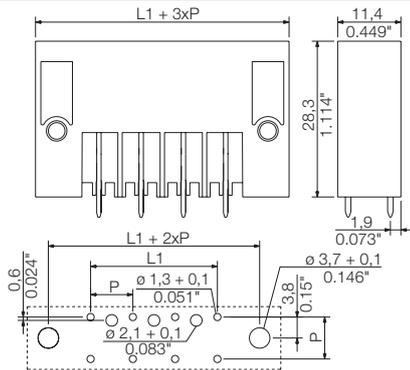
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1930600000
3	15.24	0.600	100	1930610000
4	22.86	0.900	100	1930620000
5	30.48	1.200	50	1930630000
6	38.10	1.500	50	1930640000
7	45.72	1.800	50	1930650000

SV 7.62HP../180F



Dimensioned drawing



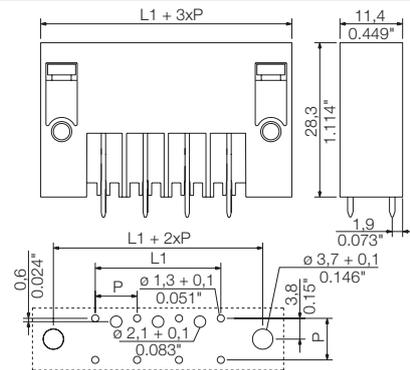
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1930710000
3	15.24	0.600	100	1930720000
4	22.86	0.900	100	1930730000
5	30.48	1.200	50	1930740000
6	38.10	1.500	50	1930750000
7	45.72	1.800	50	1930760000

SV 7.62HP../180SF



Dimensioned drawing

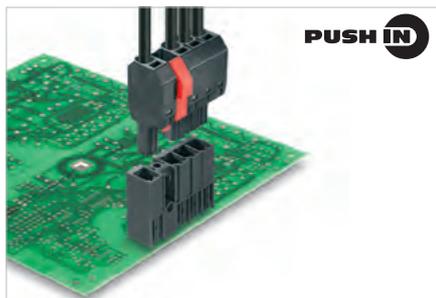


Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1930820000
3	15.24	0.600	100	1930830000
4	22.86	0.900	100	1930840000
5	30.48	1.200	50	1930850000
6	38.10	1.500	50	1930860000
7	45.72	1.800	50	1930870000

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

SV 7.62HP../180MF



Male header in 180° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capability, additional fastening mechanism, and integrated positioning.

- Middle flange available in positions 2, 3 and 4.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	630 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A
 UL: 300 V / 40.5 A



For additional articles and information, refer to catalog.weidmueller.com

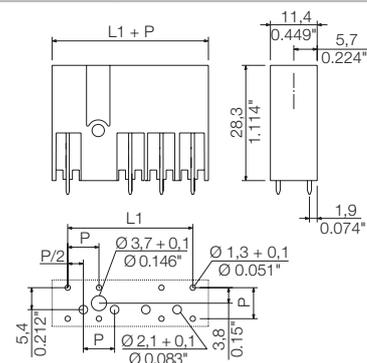
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62HP../180MF2



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Protection against twisting		
	VDS180 SV7.62	1853940000

Ordering data

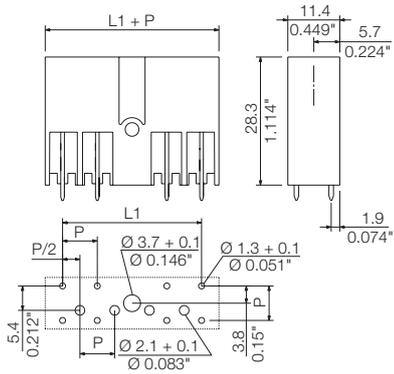
Solder pin length		3.5 mm	
Colour		Black	
Pitch 7.62 mm			
Pol.	L1	(inch)	Qty. Order No.
2	15.24	0.600	78 1048350000
3	22.86	0.900	60 1048410000
4	30.48	1.200	48 1464310000
5	38.10	1.500	36 1464320000

SV 7.62HP../180MF3

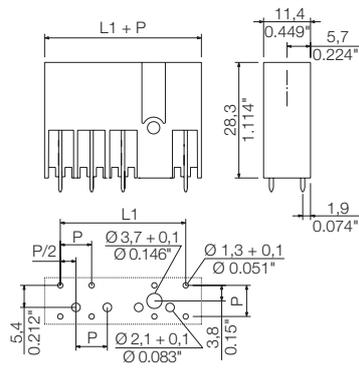
SV 7.62HP../180MF4



Dimensioned drawing



Dimensioned drawing



Ordering data

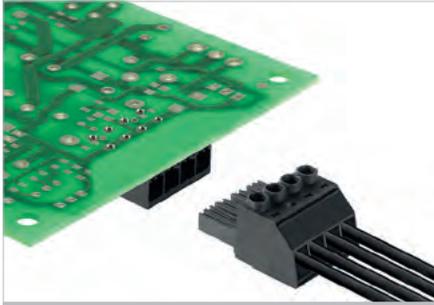
Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
3	22.86	0.900	60 1048420000
4	30.48	1.200	48 1048530000
5	38.10	1.500	36 1048590000

Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
4	30.48	1.200	48 1464330000
5	38.10	1.500	36 1048600000
6	45.72	1.800	30 1048720000

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

SV 7.62HP/./270



Male header in 270° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capability and additional fastening mechanism.

- Available with a flange (F), screw flange (SF) and middle screw flange (MF).

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	630 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A
 UL: 300 V / 40.5 A



For additional articles and information, refer to catalog.weidmueller.com

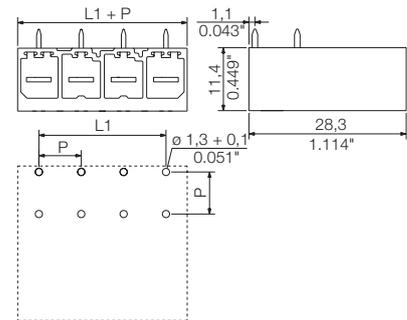
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SV 7.62HP/./270G



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000

Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1931260000
3	15.24	0.600	100	1931270000
4	22.86	0.900	100	1931280000
5	30.48	1.200	50	1931290000
6	38.10	1.500	50	1931300000
7	45.72	1.800	50	1931310000

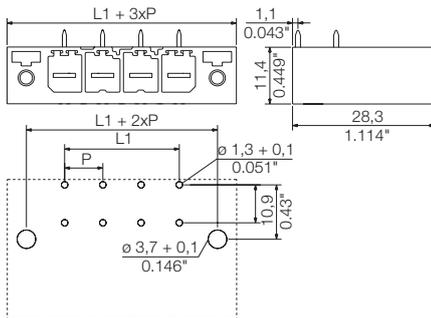
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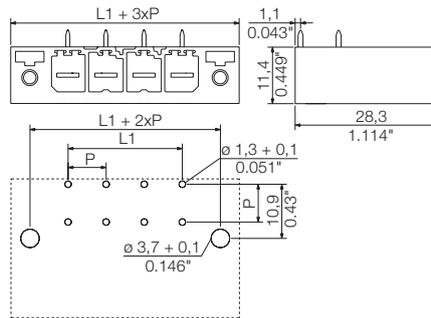
SV 7.62HP../270SF



Dimensioned drawing



Dimensioned drawing



Ordering data

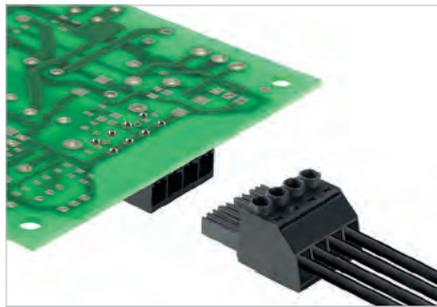
Solder pin length		3.5 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1931370000	
3	15.24	0.600	100	1931380000	
4	22.86	0.900	100	1931390000	
5	30.48	1.200	50	1931400000	
6	38.10	1.500	50	1931410000	
7	45.72	1.800	50	1931420000	

Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1931480000	
3	15.24	0.600	100	1931490000	
4	22.86	0.900	100	1931500000	
5	30.48	1.200	50	1931510000	
6	38.10	1.500	50	1931520000	
7	45.72	1.800	50	1931530000	

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

SV 7.62HP/./270MF



Male header in 180° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capability and additional fastening mechanism.

- Middle flange available in positions 2, 3 and 4.

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtolerance category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	630 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A
 UL: 300 V / 40,5 A



For additional articles and information, refer to catalog.weidmuller.com

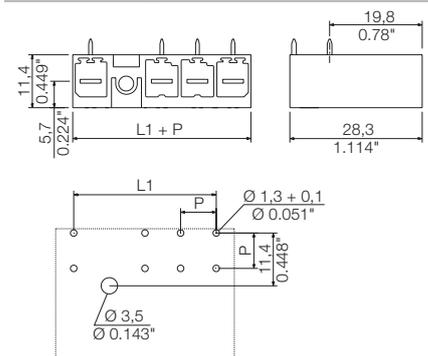
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62HP/./270MF2



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

Ordering data

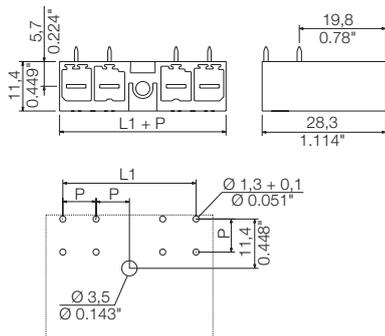
Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	78	1048370000
3	22.86	0.900	60	1048450000
4	30.48	1.200	48	1464340000
5	38.10	1.500	36	1464350000

SV 7.62HP.././270MF3

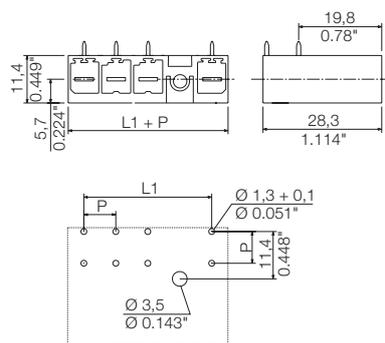
SV 7.62HP.././270MF4



Dimensioned drawing



Dimensioned drawing



Ordering data

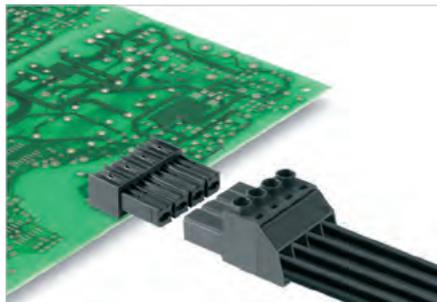
Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	60	1048460000
4	30.48	1.200	48	1048550000
5	38.10	1.500	36	1048640000

Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	48	1464360000
5	38.10	1.500	36	1048650000
6	45.72	1.800	30	1048740000

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

SVZ 7.62HP/./180



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F) and screw flange (SF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.2...6	
Solid core H05(07) V-U	mm²	0.2...6	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...6	
Flexible with ferrule	mm ²	0.25...6	
Ferrule with plastic collar	mm ²	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.5...0.6	
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmuller.com

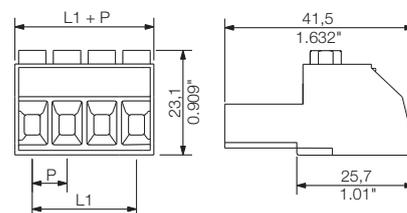
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVZ 7.62HP/./180



Dimensioned drawing



Ordering data

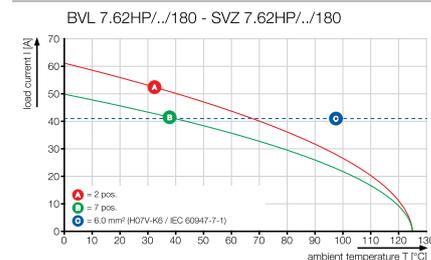
Solder pin length				
Colour				Black
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1931620000
3	15.24	0.600	100	1931630000
4	22.86	0.900	100	1931640000
5	30.48	1.200	50	1931660000
6	38.10	1.500	50	1931670000
7	45.72	1.800	50	1931680000

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Strain relief	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

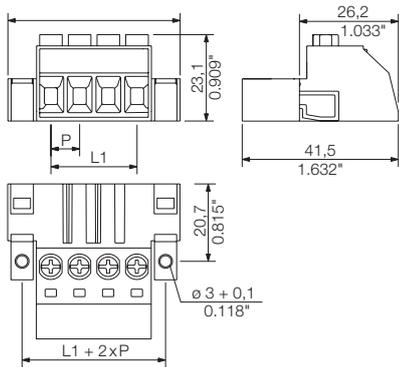
Representative deratings curve



SVZ 7.62HP../180F



Dimensioned drawing



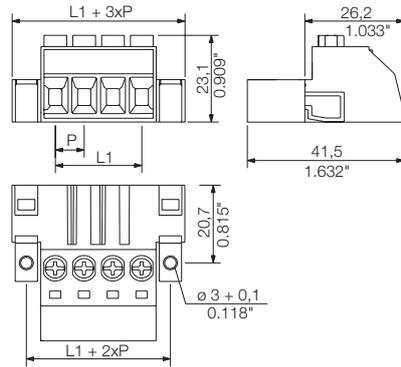
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1931740000	
3	15.24	0.600	100	1931760000	
4	22.86	0.900	100	1931820000	
5	30.48	1.200	50	1931840000	
6	38.10	1.500	50	1931850000	
7	45.72	1.800	50	1931860000	

SVZ 7.62HP../180SF



Dimensioned drawing

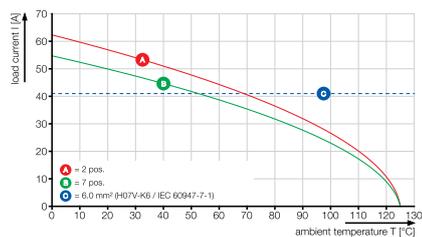


Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1931960000	
3	15.24	0.600	100	1931970000	
4	22.86	0.900	100	1931980000	
5	30.48	1.200	50	1931990000	
6	38.10	1.500	50	1932000000	
7	45.72	1.800	50	1932010000	

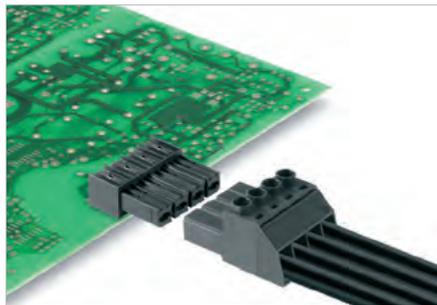
Additional deratings curves

BVZ 7.62HP../180 - SVZ 7.62HP../180



Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

SVZ 7.62HP../180FC



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (FL) and a screw flange (SFC).

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmuller.com

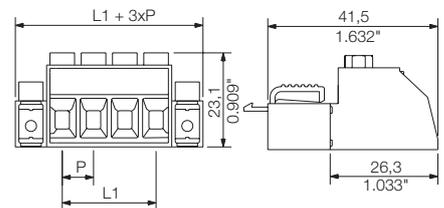
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVZ 7.62HP../180FC



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.2...6	
Solid core H05(07) V-U	mm²	0.2...6	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...6	
Flexible with ferrule	mm ²	0.25...6	
Ferrule with plastic collar	mm ²	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.5...0.6	
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

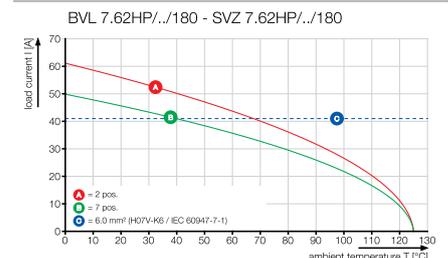
Accessories

Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Strain relief		
	BV/SV 7.62HP/02 ZE GR	1937550000
	BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver		
	SDS 0.8x4.0x125	9009020000
Crosshead screwdriver		
	SDK PH1	9008480000

Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1950880000	
3	15.24	0.600	100	1950890000	
4	22.86	0.900	100	1950900000	
5	30.48	1.200	50	1950910000	
6	38.10	1.500	50	1950920000	
7	45.72	1.800	50	1950930000	

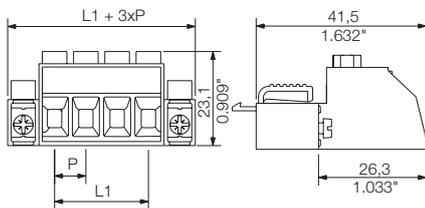
Representative deratings curve



SVZ 7.62HP../180SFC



Dimensioned drawing

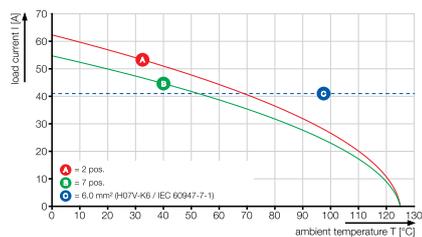


Ordering data

Solder pin length				
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1950990000
3	15.24	0.600	100	1951000000
4	22.86	0.900	100	1951010000
5	30.48	1.200	50	1951020000
6	38.10	1.500	50	1951030000
7	45.72	1.800	50	1951050000

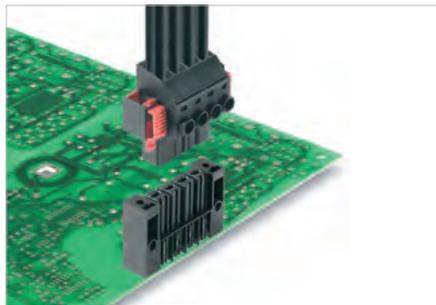
Additional deratings curves

BVZ 7.62HP../180 - SVZ 7.62HP../180



Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

SVZ 7.62HP/./180FI



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages for board-to-wire connections. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

Variants: flange and screw flange mountings.

- Available with a flange (FI) and a screw flange (SFI).

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmuller.com

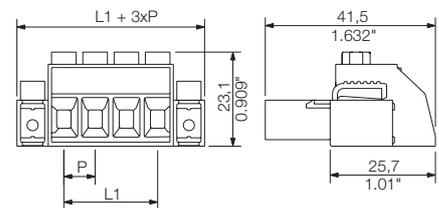
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVZ 7.62HP/./180FI



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.2...6	
Solid core H05(07) V-U	mm²	0.2...6	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...6	
Flexible with ferrule	mm ²	0.25...6	
Ferrule with plastic collar	mm ²	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.5...0.6	
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

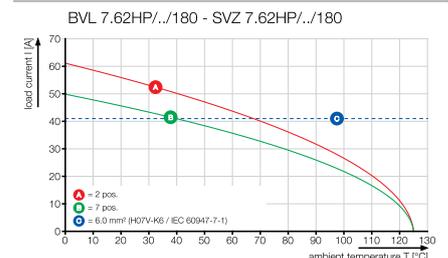
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Strain relief	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1932070000	
3	15.24	0.600	100	1932080000	
4	22.86	0.900	100	1932090000	
5	30.48	1.200	50	1932100000	
6	38.10	1.500	50	1932110000	
7	45.72	1.800	50	1932120000	

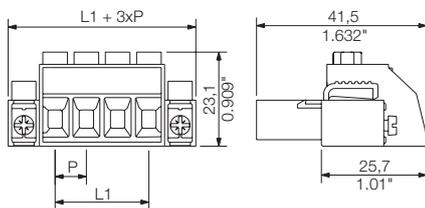
Representative deratings curve



SVZ 7.62HP../180SFI



Dimensioned drawing

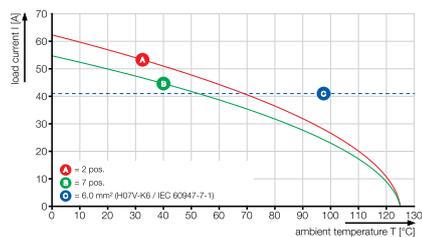


Ordering data

Solder pin length				
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1932180000
3	15.24	0.600	100	1932190000
4	22.86	0.900	100	1932200000
5	30.48	1.200	50	1932210000
6	38.10	1.500	50	1932220000
7	45.72	1.800	50	1932230000

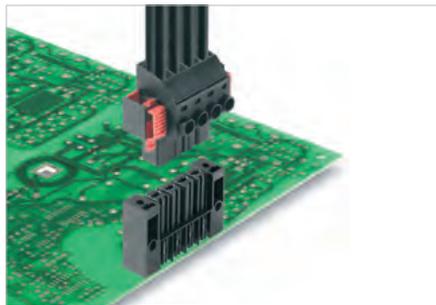
Additional deratings curves

BVZ 7.62HP../180 - SVZ 7.62HP../180



Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

SVZ 7.62HP../180SH



Male plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability. Available with shield in three different orientations.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.2...6	
Solid core H05(07) V-U	mm²	0.2...6	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...6	
Flexible with ferrule	mm ²	0.25...6	
Ferrule with plastic collar	mm ²	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.5...0.6	
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overtolerance category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
CSA (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmuller.com

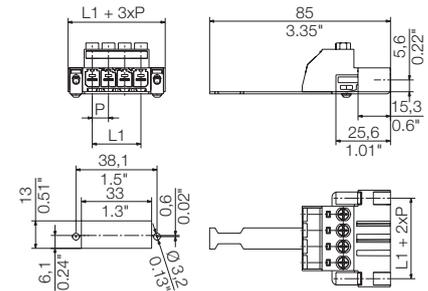
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVZ 7.62HP../180SH180



Dimensioned drawing



FRONT PLATE CUT-OUT

Accessories

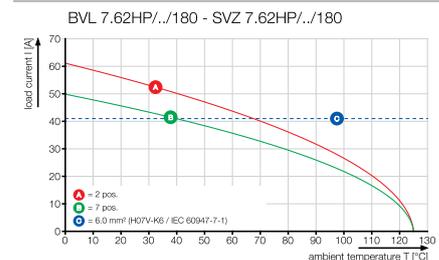
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

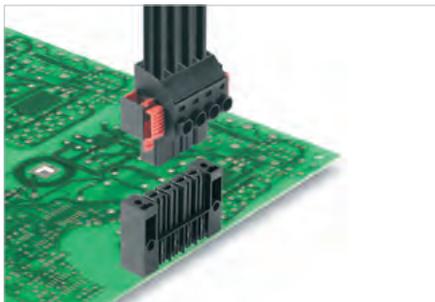
Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1932460000
4	22.86	0.900	25	1932470000
5	30.48	1.200	25	1932480000
6	38.10	1.500	25	1932490000

Representative deratings curve



SVZ 7.62HP../180SH C



Male plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmuller.com

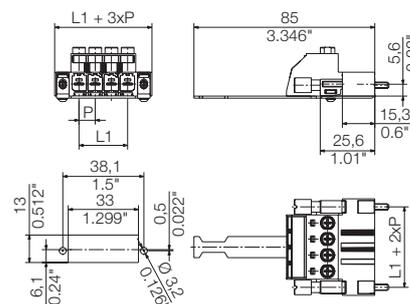
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVZ 7.62HP../180SH180C



Dimensioned drawing



FRONT PLATE CUT-OUT

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...6
Solid core H05(07) V-U	mm²	0.2...6
Stranded H07 V-R		
Flexible H05(07) V-K	mm ²	0.5...6
Flexible with ferrule	mm ²	0.25...6
Ferrule with plastic collar	mm ²	0.25...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264
Tightening torque range	Nm	0.5...0.6
Rated current, max.	A	41 41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	6
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-10
CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-10

General data

Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

Accessories

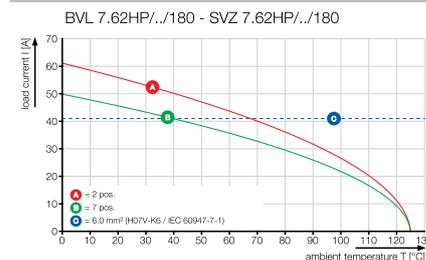
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

Ordering data

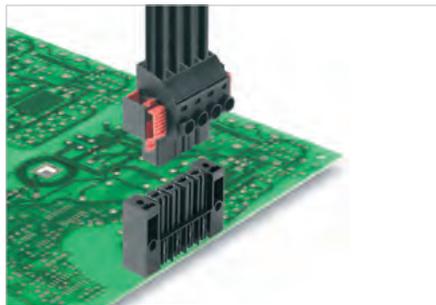
Solder pin length				
Colour	Black			
Pitch	7.62 mm		Qty.	Order No.
Pol.	L1	(inch)		
3	15.24	0.600	50	1951150000
4	22.86	0.900	25	1951160000
5	30.48	1.200	25	1951170000
6	38.10	1.500	25	1951180000

Representative deratings curve



Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

SVZ 7.62HP../180SH I



Male plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages for board-to-wire connections. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.2...6	
Solid core H05(07) V-U	mm²	0.2...6	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...6	
Flexible with ferrule	mm ²	0.25...6	
Ferrule with plastic collar	mm ²	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.5...0.6	
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)	B C D	B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
CSA (Use Group)	B C D	B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmuller.com

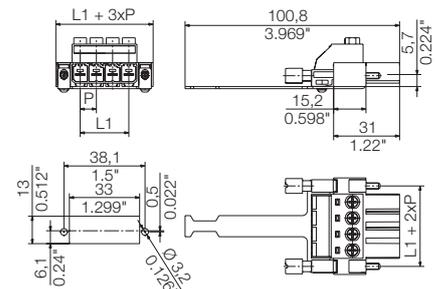
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVZ 7.62HP../180SH180I



Dimensioned drawing



FRONT PLATE CUT-OUT

Ordering data

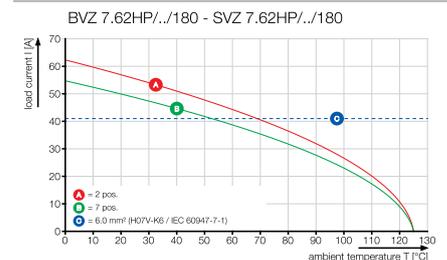
Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1932500000
4	22.86	0.900	25	1932510000
5	30.48	1.200	25	1932520000
6	38.10	1.500	25	1932530000

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

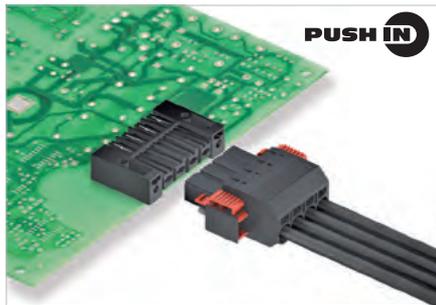
Representative deratings curve





Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

SVF 7.62HP../180



Male plug in 180° outlet direction and "PUSH IN" spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F) and a screw flange (SF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...10	
Solid core H05(07) V-U	mm²	0.5...10	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm ²	0.5...	
Flexible with ferrule	mm ²	1.5...4	
Ferrule with plastic collar	mm ²	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmueller.com

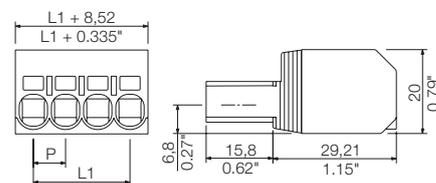
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVF 7.62HP../180G



Dimensioned drawing



Accessories

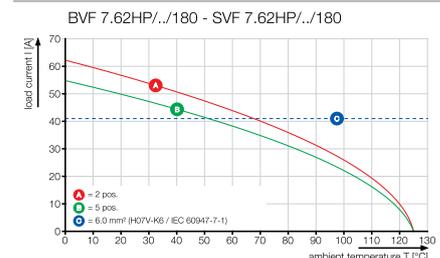
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	95	1060830000
3	15.24	0.600	65	1060840000
4	22.86	0.900	45	1060850000
5	30.48	1.200	40	1060870000
6	38.10	1.500	30	1060880000

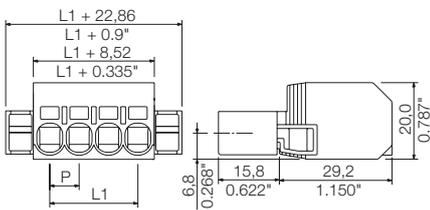
Representative deratings curve



SVF 7.62HP../180F



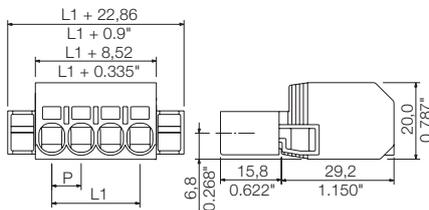
Dimensioned drawing



SVF 7.62HP../180SF



Dimensioned drawing



Ordering data

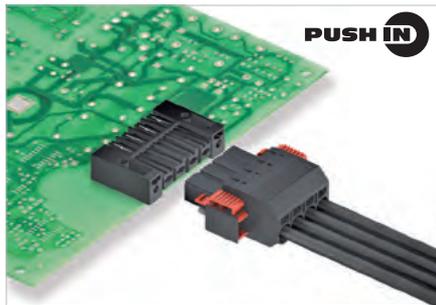
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060900000	
3	15.24	0.600	40	1060910000	
4	22.86	0.900	30	1060920000	
5	30.48	1.200	25	1060930000	

Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060950000	
3	15.24	0.600	40	1060970000	
4	22.86	0.900	30	1060980000	
5	30.48	1.200	25	1061000000	

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

SVF 7.62HP../180 I



Male plug in 180° outlet direction and "PUSH IN" spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages for board-to-board connections. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F) and a screw flange (SFI).

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...10
Solid core H05(07) V-U	mm²	0.5...10
Stranded H07 V-R		...10
Flexible H05(07) V-K	mm ²	0.5...
Flexible with ferrule	mm ²	1.5...4
Ferrule with plastic collar	mm ²	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264
Tightening torque range	Nm	
Rated current, max.	A	41 41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	6
Overtoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6

UL / CUL (Use Group)	B C D
Rated voltage	V 600 600 600
Rated current	A 35 35 5
AWG conductor	AWG 24-10
CSA (Use Group)	B C D
Rated voltage	V 600 600 600
Rated current	A 35 35 5
AWG conductor	AWG 24-10

General data	
Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Cu-Leg
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmueller.com

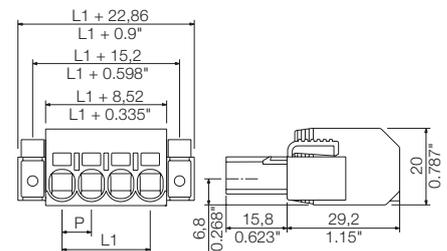
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVF 7.62HP../180FI



Dimensioned drawing



Accessories

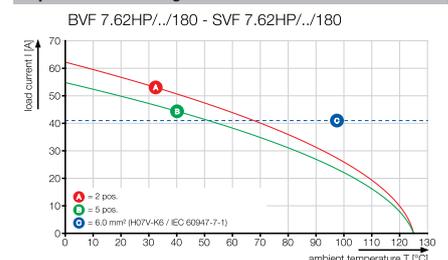
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	50	1124750000
3	15.24	0.600	40	1124760000
4	22.86	0.900	30	1124770000
5	30.48	1.200	25	1124780000

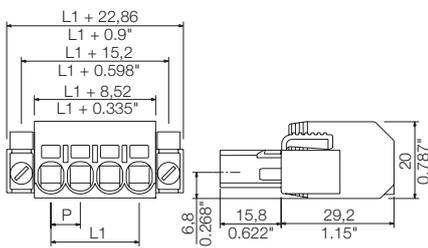
Representative deratings curve



SVF 7.62HP../180SFI



Dimensioned drawing

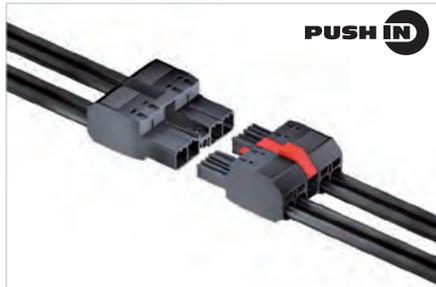


Ordering data

Solder pin length				
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	50	1124810000
3	15.24	0.600	40	1124820000
4	22.86	0.900	30	1124830000
5	30.48	1.200	25	1124840000

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

SVF 7.62HP../180MF



Male plug in 180° outlet direction with "PUSH IN" spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange is available in positions 2, 3 and 4.

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...10
Solid core H05(07) V-U	mm²	0.5...10
Stranded H07 V-R		...10
Flexible H05(07) V-K	mm ²	0.5...
Flexible with ferrule	mm ²	1.5...4
Ferrule with plastic collar	mm ²	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264

Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C

For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2

Rated voltage	V	800	1000	1000
Rated impulse voltage	kV	8	8	6

UL / CUL (Use Group)	B	C	D
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Rated voltage	V	600	600	600
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Rated current	A	35	35	5
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AWG conductor	AWG	24-10
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CSA (Use Group)	B	C	D
------------------------	----------	----------	----------

Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG	24-10		

General data

Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmueller.com

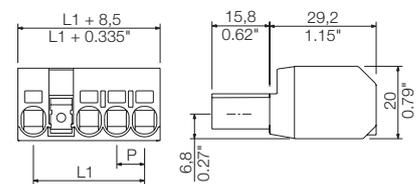
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SVF 7.62HP../180MF2



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

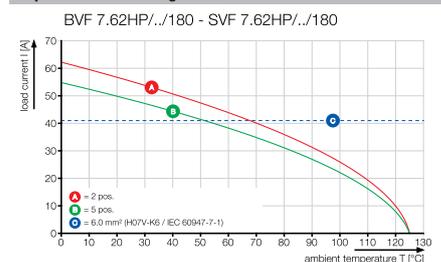
Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Screwdriver		
	SDS 0.8x4.0x125	9009020000
Crimping tool		
	PZ 6/5	9011460000

Ordering data

Solder pin length

Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	65	1061020000
3	22.86	0.900	50	1061030000
4	30.48	1.200	40	1430010000
5	38.10	1.500	30	1430020000

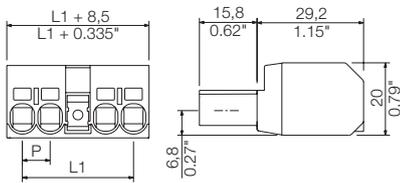
Representative deratings curve



SVF 7.62HP../180MF3



Dimensioned drawing



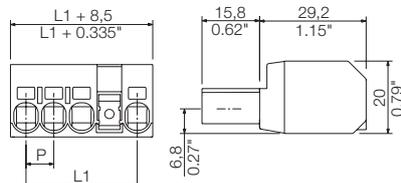
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1061040000	
4	30.48	1.200	40	1061050000	
5	38.10	1.500	30	1061070000	

SVF 7.62HP../180MF4



Dimensioned drawing

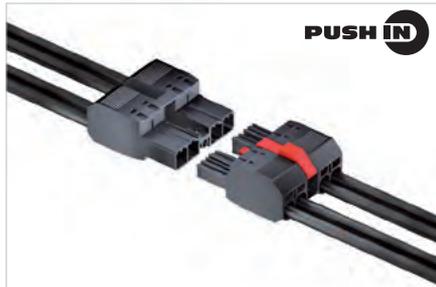


Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	10	1430030000	
5	38.10	1.500	30	1061080000	
6	45.72	1.800	25	1061100000	

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

SVF 7.62HP../180MSF



Male plug in 180° outlet direction with "PUSH IN" spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange is available in positions 2, 3 and 4.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...10	
Solid core H05(07) V-U	mm²	0.5...10	
Stranded H07 V-R		...10	
Flexible H05(07) V-K	mm ²	0.5...	
Flexible with ferrule	mm ²	1.5...4	
Ferrule with plastic collar	mm ²	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtolerance category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmueller.com

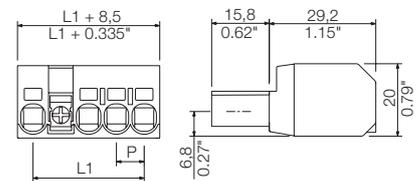
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SVF 7.62HP../180MSF2



Dimensioned drawing



Accessories

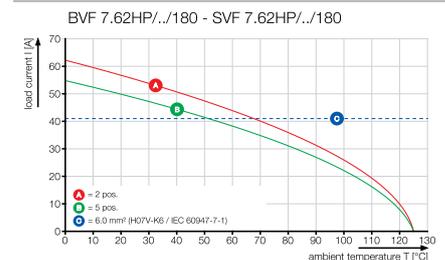
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000
Screwdriver	
SDIS 0.6X3.5X100	9008390000
SDS 0.6X3.5X100	9008330000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	65	1061110000
3	22.86	0.900	50	1061120000
4	30.48	1.200	40	1430060000
5	38.10	1.500	30	1430070000

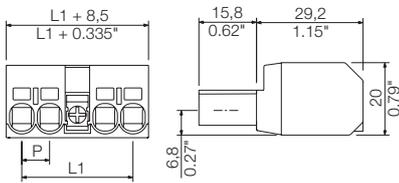
Representative deratings curve



SVF 7.62HP../180MSF3



Dimensioned drawing



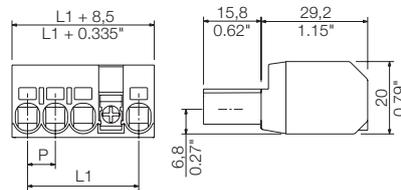
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1061130000	
4	30.48	1.200	40	1061140000	
5	38.10	1.500	30	1061150000	

SVF 7.62HP../180MSF4



Dimensioned drawing



Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	1430080000	
5	38.10	1.500	30	1061170000	
6	45.72	1.800	25	1061180000	

Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

BVZ 7.62HP../180



Female plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F), screw flange (SF) and clip on screw flange (SFC)

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.2...6	
Solid core H05(07) V-U	mm²	0.2...6	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...6	
Flexible with ferrule	mm ²	0.25...6	
Ferrule with plastic collar	mm ²	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.5...0.6	
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG	24-8	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
 UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmuller.com

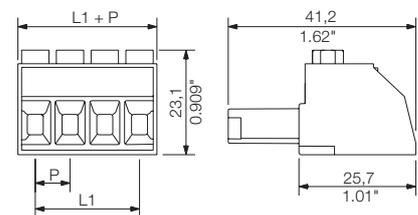
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVZ 7.62HP../180



Dimensioned drawing



Ordering data

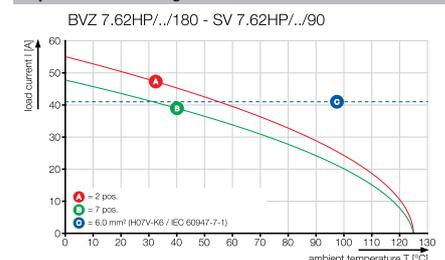
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1929930000	
3	15.24	0.600	100	1929940000	
4	22.86	0.900	100	1929950000	
5	30.48	1.200	50	1929960000	
6	38.10	1.500	50	1929970000	
7	45.72	1.800	50	1929980000	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Strain relief	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

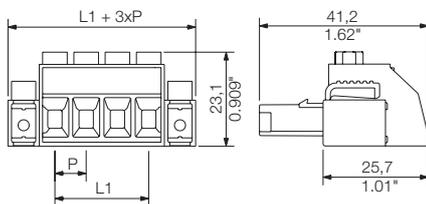
Representative deratings curve



BVZ 7.62HP../180F



Dimensioned drawing



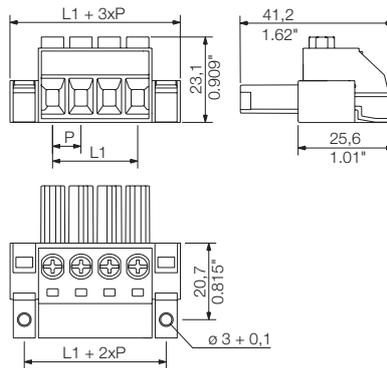
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1930050000	
3	15.24	0.600	100	1930060000	
4	22.86	0.900	100	1930070000	
5	30.48	1.200	50	1930080000	
6	38.10	1.500	50	1930090000	
7	45.72	1.800	50	1930100000	

BVZ 7.62HP../180SF



Dimensioned drawing



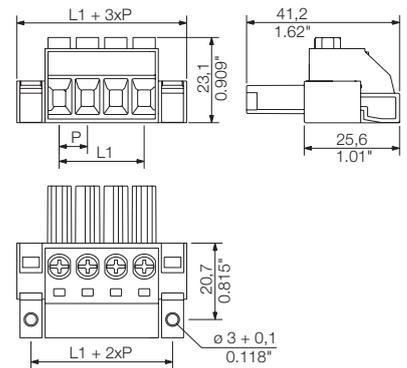
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1930160000	
3	15.24	0.600	100	1930170000	
4	22.86	0.900	100	1930180000	
5	30.48	1.200	50	1930190000	
6	38.10	1.500	50	1930200000	
7	45.72	1.800	50	1930210000	

BVZ 7.62HP../180SFC



Dimensioned drawing

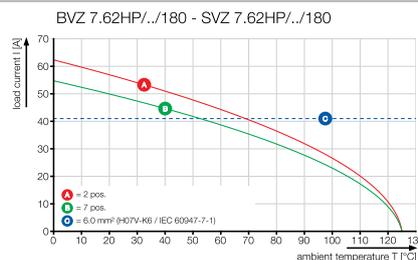
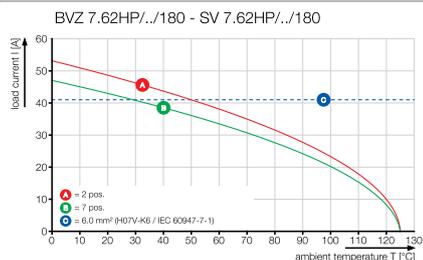


Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1929740000	
3	15.24	0.600	100	1929750000	
4	22.86	0.900	100	1929760000	
5	30.48	1.200	50	1929770000	
6	38.10	1.500	50	1929780000	
7	45.72	1.800	50	1929790000	

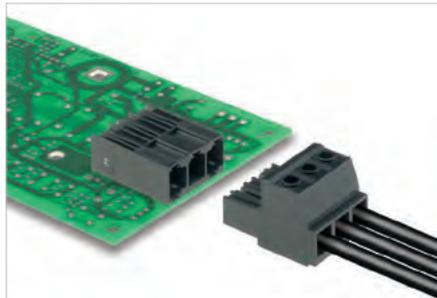
Also available with a clip-on flange (-180FC).

Additional deratings curves



Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

BVZ 7.62HP../180SH



Female plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.2...6	
Solid core H05(07) V-U	mm²	0.2...6	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...6	
Flexible with ferrule	mm ²	0.25...6	
Ferrule with plastic collar	mm ²	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.5...0.6	
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG	24-8	
CSA (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
 UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmueller.com

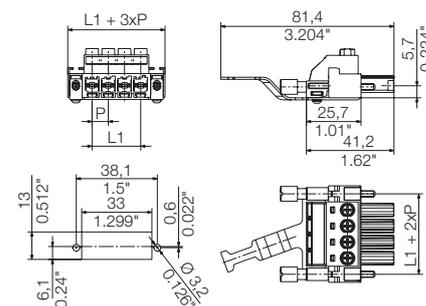
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVZ 7.62HP../180SH160



Dimensioned drawing



FRONT PLATE CUT-OUT

Accessories

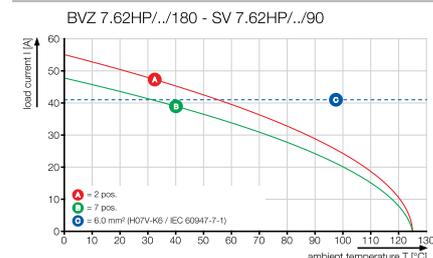
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000
Strain relief	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1929850000
4	22.86	0.900	25	1929860000
5	30.48	1.200	25	1929870000
6	38.10	1.500	25	1929880000

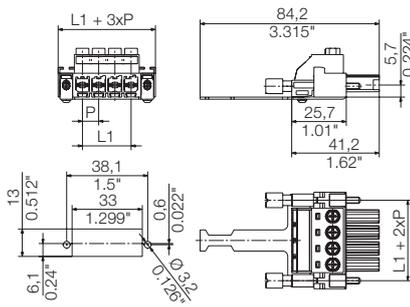
Representative deratings curve



BVZ 7.62HP../180SH180



Dimensioned drawing



FRONT PLATE CUT-OUT

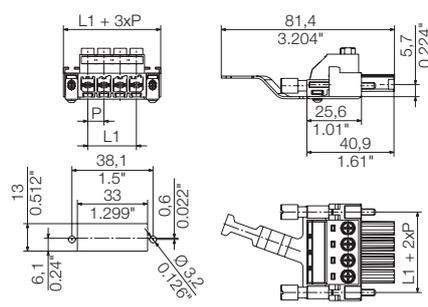
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	15.24	0.600	50	1933340000	
4	22.86	0.900	25	1933350000	
5	30.48	1.200	25	1933360000	
6	38.10	1.500	25	1933370000	

BVZ 7.62HP../180SH200



Dimensioned drawing

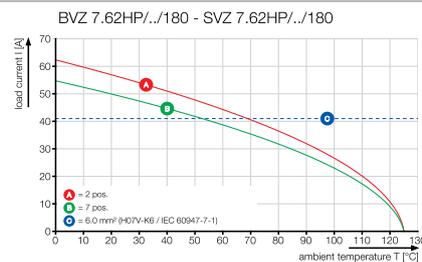
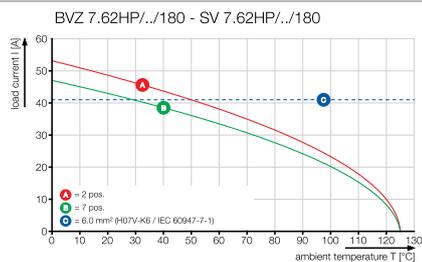


FRONT PLATE CUT-OUT

Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	15.24	0.600	50	1933430000	
4	22.86	0.900	25	1933440000	
5	30.48	1.200	25	1933450000	
6	38.10	1.500	25	1933460000	

Additional deratings curves



Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

BVZ 7.62HP../180SH C



Female plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.2...6	
Solid core H05(07) V-U	mm²	0.2...6	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...6	
Flexible with ferrule	mm ²	0.25...6	
Ferrule with plastic collar	mm ²	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.5...0.6	
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	40.5	40.5 5
AWG conductor	AWG	24-8	
CSA (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
 UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmuller.com

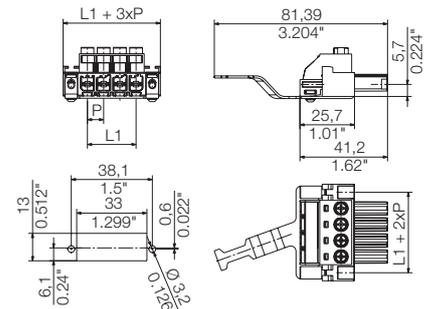
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVZ 7.62HP../180SH160C



Dimensioned drawing



FRONT PLATE CUT-OUT

Ordering data

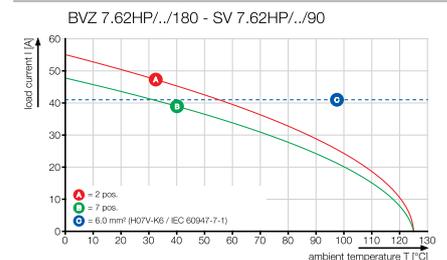
Solder pin length				
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1929890000
4	22.86	0.900	25	1929900000
5	30.48	1.200	25	1929910000
6	38.10	1.500	25	1929920000

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000
Strain relief	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

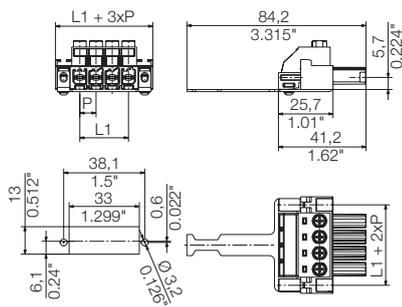
Representative deratings curve



BVZ 7.62HP../180SH180C



Dimensioned drawing



FRONT PLATE CUT-OUT

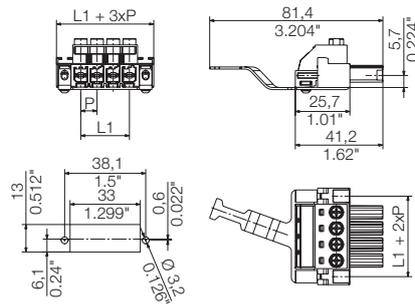
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	15.24	0.600	50	1933380000	
4	22.86	0.900	25	1933390000	
5	30.48	1.200	25	1933400000	
6	38.10	1.500	25	1933410000	

BVZ 7.62HP../180SH200C



Dimensioned drawing

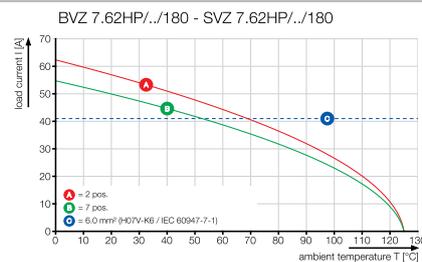
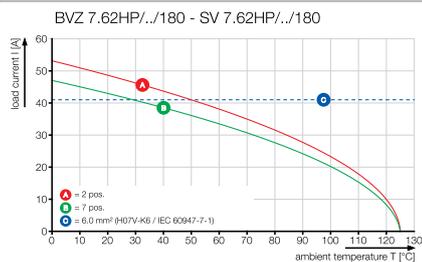


FRONT PLATE CUT-OUT

Ordering data

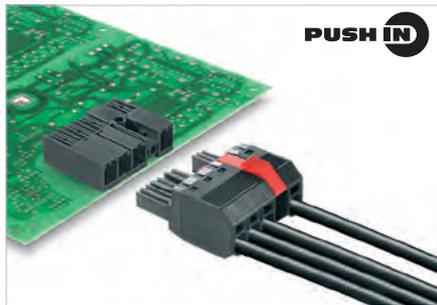
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	15.24	0.600	50	1933470000	
4	22.86	0.900	25	1933480000	
5	30.48	1.200	25	1933490000	
6	38.10	1.500	25	1933500000	

Additional deratings curves



Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

BVF 7.62HP../180



Female plug in 180° outlet direction with "PUSH IN" spring connection for TNC (S) systems. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F), screw flange (SF) and middle flange (MF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...10	
Solid core H05(07) V-U	mm²	0.5...10	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...10	
Flexible with ferrule	mm ²	1.5...6	
Ferrule with plastic collar	mm ²	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-8	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmuller.com

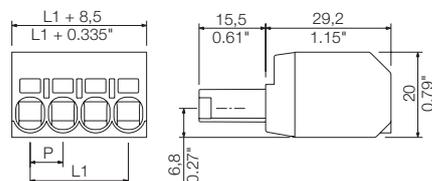
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVF 7.62HP../180



Dimensioned drawing



Accessories

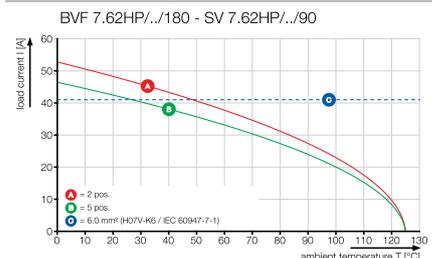
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	95	1060390000
3	15.24	0.600	65	1060400000
4	22.86	0.900	45	1060410000
5	30.48	1.200	40	1060420000

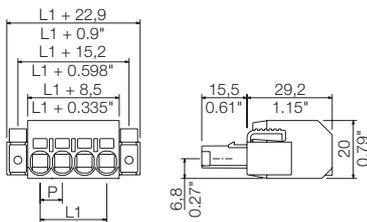
Representative deratings curve



BVF 7.62HP../180F



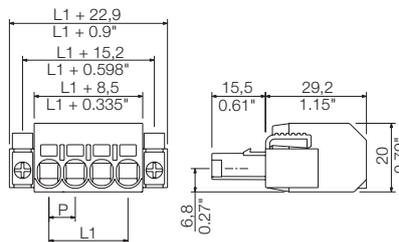
Dimensioned drawing



BVF 7.62HP../180SF



Dimensioned drawing



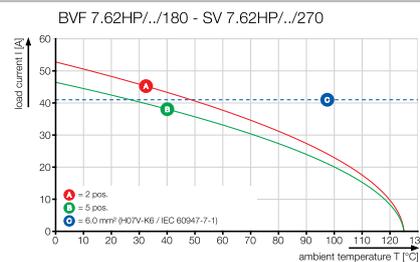
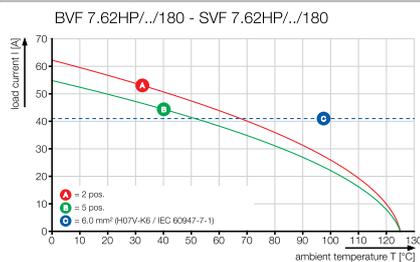
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060440000	
3	15.24	0.600	40	1060450000	
4	22.86	0.900	30	1060470000	
5	30.48	1.200	25	1060480000	
6	38.10	1.500	25	1060490000	

Ordering data

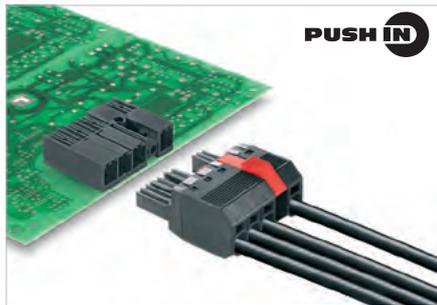
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060500000	
3	15.24	0.600	40	1060510000	
4	22.86	0.900	30	1060520000	
5	30.48	1.200	25	1060530000	
6	38.10	1.500	25	1060540000	

Additional deratings curves



Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

BVF 7.62HP../180MF



PUSH IN

Female plug in 180° outlet direction with "PUSH IN" spring connection for TNC (S) systems. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange available in positions 2, 3 and 4.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...10	
Solid core H05(07) V-U	mm²	0.5...10	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...10	
Flexible with ferrule	mm ²	1.5...6	
Ferrule with plastic collar	mm ²	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm	41	
Rated current, max.	A	41	
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	II
Pollution severity		3	2
Rated voltage	V	800	1000
Rated impulse voltage	kV	8	6
UL / CUL (Use Group)		B	C
Rated voltage	V	600	600
Rated current	A	35	5
AWG conductor	AWG	24-8	
CSA (Use Group)		B	D
Rated voltage	V	600	600
Rated current	A	35	5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmuller.com

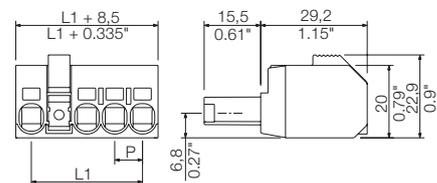
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

BVF 7.62HP../180MF2



Dimensioned drawing



Accessories

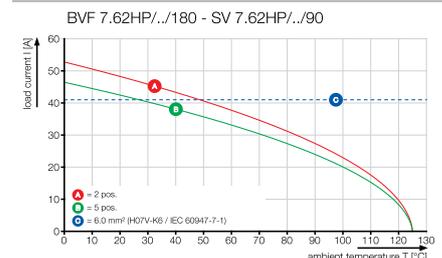
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Strain relief	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	65	1060550000
3	22.86	0.900	50	1060570000
4	30.48	1.200	40	1430120000
5	38.10	1.500	30	1430130000

Representative deratings curve



BVF 7.62HP../180MF3

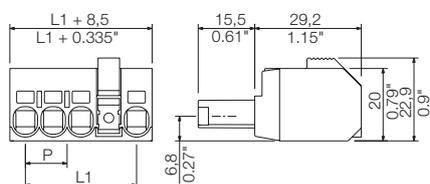
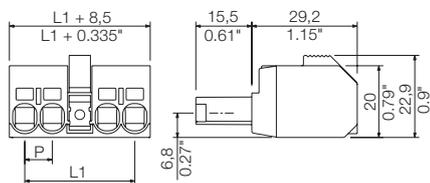
BVF 7.62HP../180MF4



Dimensioned drawing



Dimensioned drawing



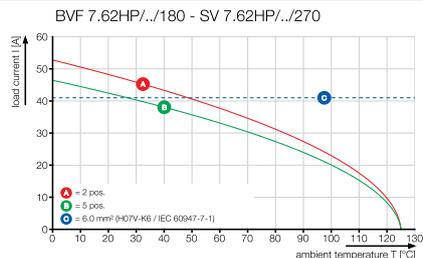
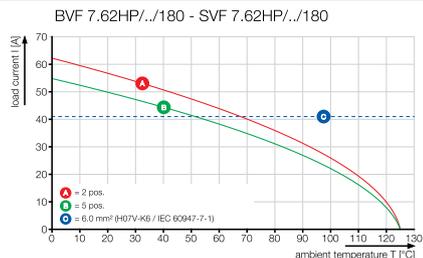
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1060580000	
4	30.48	1.200	40	1060590000	
5	38.10	1.500	30	1060600000	

Ordering data

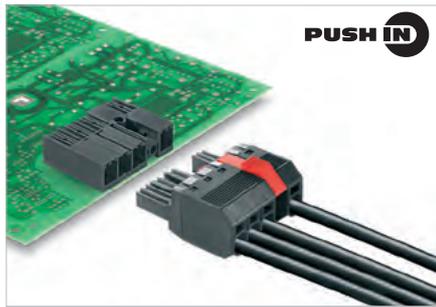
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	1430140000	
5	38.10	1.500	30	1060610000	
6	45.72	1.800	25	1060620000	

Additional deratings curves



Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

BVF 7.62HP../180MSF



PUSH IN

Female plug in 180° outlet direction with "PUSH IN" spring connection for TNC (S) systems. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange available in positions 2, 3 and 4.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...10	
Solid core H05(07) V-U	mm²	0.5...10	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...10	
Flexible with ferrule	mm ²	1.5...6	
Ferrule with plastic collar	mm ²	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
		According to norm	
Tightening torque range	Nm	41	
Rated current, max.	A	41	
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-8	
CSA (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
 UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmuller.com

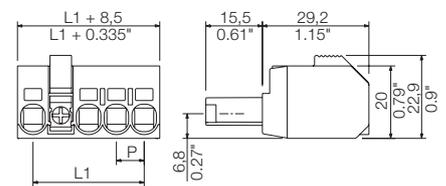
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

BVF 7.62HP../180MSF2



Dimensioned drawing



Accessories

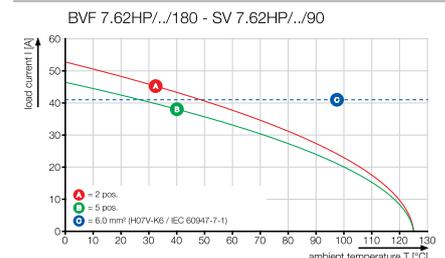
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
Screwdriver		
	SDS 0.8X4.0X125	9009020000
Crimping tool		
	PZ 6/5	9011460000

Ordering data

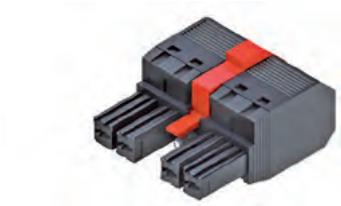
Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	65	1060630000
3	22.86	0.900	50	1060640000
4	30.48	1.200	40	1430090000
5	38.10	1.500	50	1430100000

Representative deratings curve



BVF 7.62HP../180MSF3

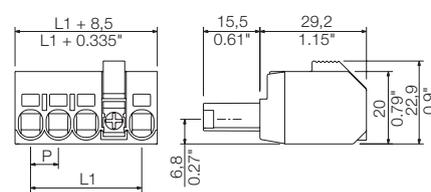
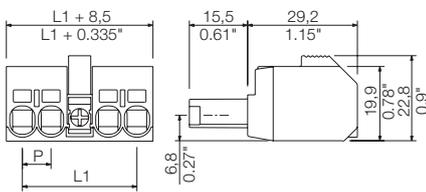
BVF 7.62HP../180MSF4



Dimensioned drawing



Dimensioned drawing



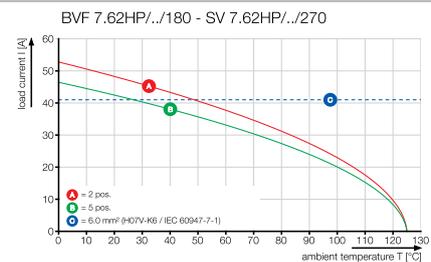
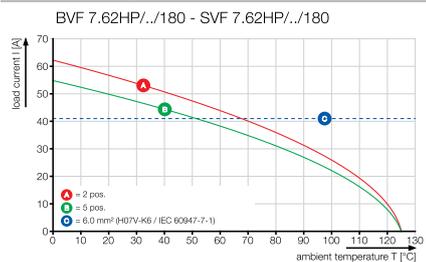
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1060650000	
4	30.48	1.200	40	1060670000	
5	38.10	1.500	30	1060680000	

Ordering data

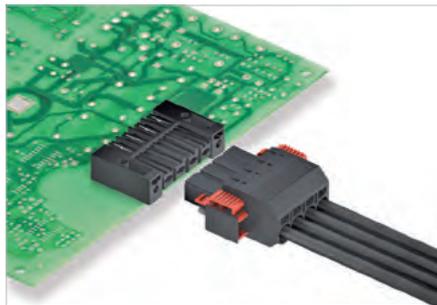
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	1430110000	
5	38.10	1.500	30	1060690000	
6	45.72	1.800	25	1060700000	

Additional deratings curves



Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

BVL 7.62HP/./90



Touch-safe female header in 90° outlet direction. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL 508 / UL 840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. According to IEC 61800-5-1, the mating profile ensures more than 3 mm of touch safety.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F) and screw flange (SFI).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	630 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A
 UL: 300 V / 35 A



For additional articles and information, refer to catalog.weidmuller.com

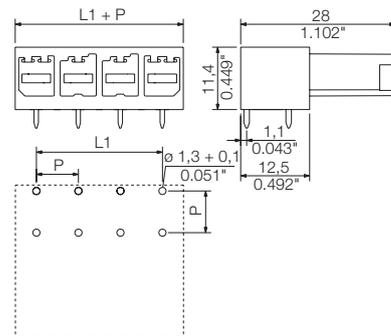
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVL 7.62HP/./90



Dimensioned drawing



Accessories

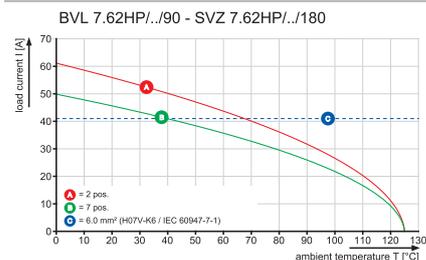
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1 (inch)	Qty.	Order No.
2	0.300	100	1928280000
3	0.600	100	1928290000
4	0.900	100	1928300000
5	1.200	50	1928310000
6	1.500	50	1928320000
7	1.800	50	1928330000

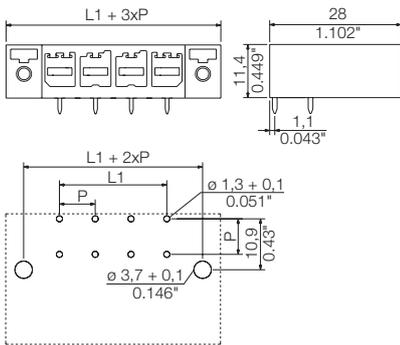
Representative deratings curve



BVL 7.62HP../90FI



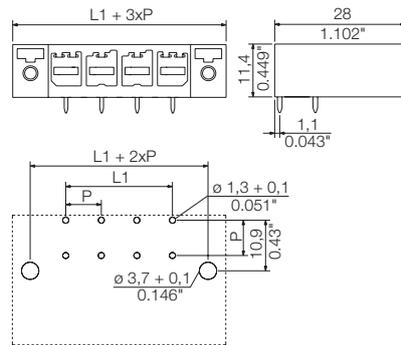
Dimensioned drawing



BVL 7.62HP../90SFI



Dimensioned drawing



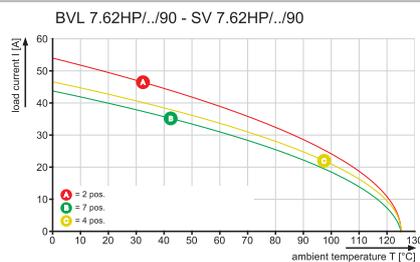
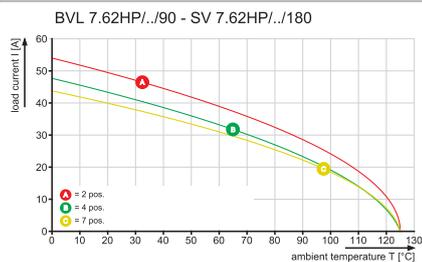
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928390000
3	15.24	0.600	100	1928400000
4	22.86	0.900	100	1928410000
5	30.48	1.200	50	1928420000
6	38.10	1.500	50	1928430000
7	45.72	1.800	50	1928440000

Ordering data

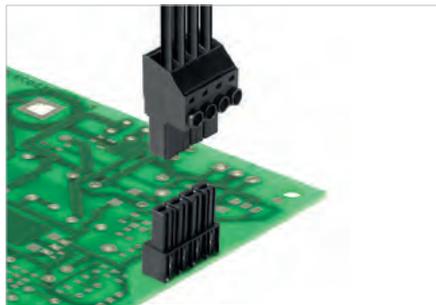
Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928500000
3	15.24	0.600	100	1928510000
4	22.86	0.900	100	1928520000
5	30.48	1.200	50	1928530000
6	38.10	1.500	50	1928540000
7	45.72	1.800	50	1928550000

Additional deratings curves



Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

BVL 7.62HP/./180



Touch-safe female header in 180° outlet direction. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL 508 / UL 840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. According to IEC 61800-5-1, the mating profile ensures more than 3 mm of touch safety.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F) and screw flange (SFI).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	630 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A
 UL: 300 V / 35 A



For additional articles and information, refer to catalog.weidmueller.com

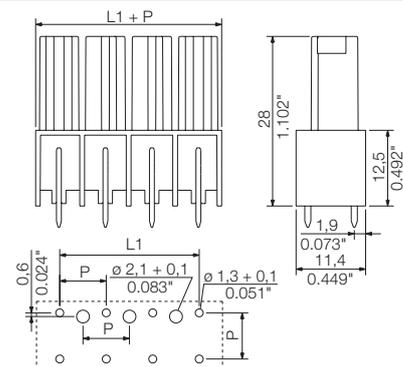
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVL 7.62HP/./180



Dimensioned drawing



Accessories

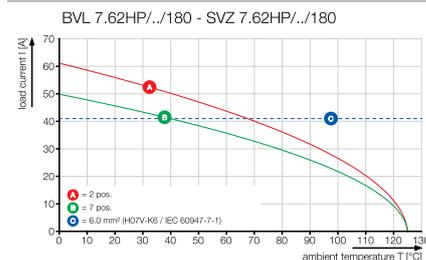
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Protection against twisting		
	VDS180 SV7.62	1853940000

Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928610000
3	15.24	0.600	100	1928620000
4	22.86	0.900	100	1928630000
5	30.48	1.200	50	1928650000
6	38.10	1.500	50	1928660000
7	45.72	1.800	50	1928670000

Representative deratings curve

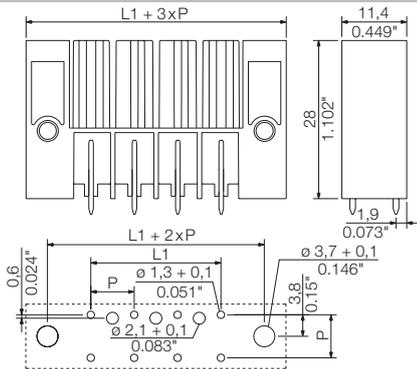


BVL 7.62HP../180FI

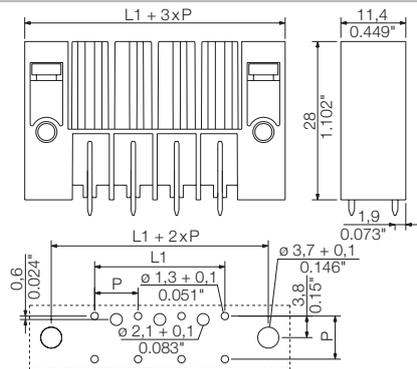
BVL 7.62HP../180SFI



Dimensioned drawing



Dimensioned drawing



Ordering data

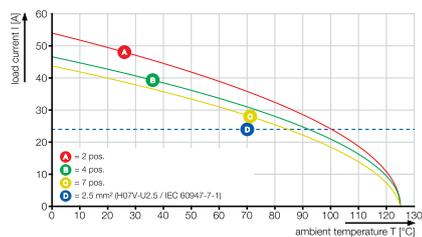
Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928730000
3	15.24	0.600	100	1928740000
4	22.86	0.900	100	1928750000
5	30.48	1.200	50	1928760000
6	38.10	1.500	50	1928770000
7	45.72	1.800	50	1928780000

Ordering data

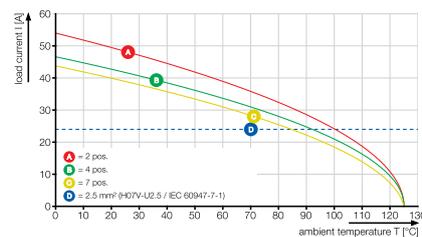
Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928840000
3	15.24	0.600	100	1928850000
4	22.86	0.900	100	1928860000
5	30.48	1.200	50	1928870000
6	38.10	1.500	50	1928900000
7	45.72	1.800	50	1928910000

Additional deratings curves

BVL 7.62HP../180 - SV 7.62HP../180

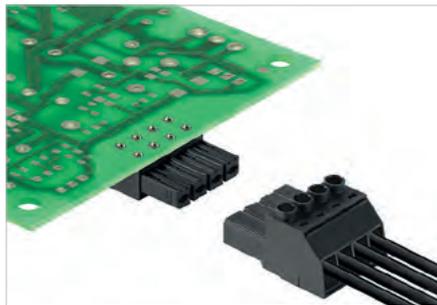


BVL 7.62HP../180 - SV 7.62HP../90



Connectors in 7.62 mm pitch
Series BV/SV 7.62 - connects up to 6 mm²

BVL 7.62HP/././270



Touch-safe female header in 270° outlet direction. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL 508 / UL 840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. According to IEC 61800-5-1, the mating profile ensures more than 3 mm of touch safety.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F) and screw flange (SFI).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	630 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	35	35 5
AWG conductor	AWG		-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 41 A
 UL: 300 V / 35 A



For additional articles and information, refer to catalog.weidmuller.com

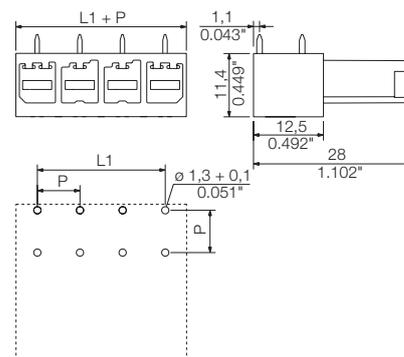
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVL 7.62HP/././270



Dimensioned drawing



Accessories

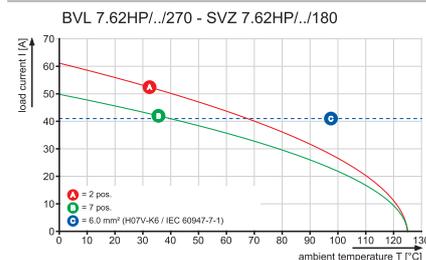
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000

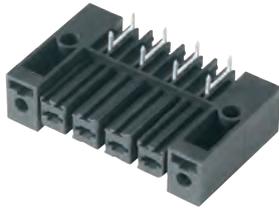
Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1929300000
3	15.24	0.600	100	1929310000
4	22.86	0.900	100	1929320000
5	30.48	1.200	50	1929330000
6	38.10	1.500	50	1929340000
7	45.72	1.800	50	1929350000

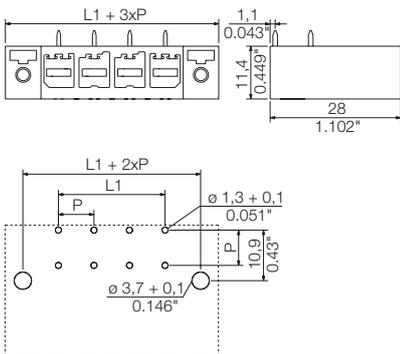
Representative deratings curve



BVL 7.62HP../270FI



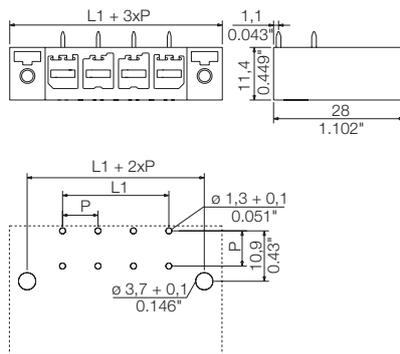
Dimensioned drawing



BVL 7.62HP../270SFI



Dimensioned drawing



Ordering data

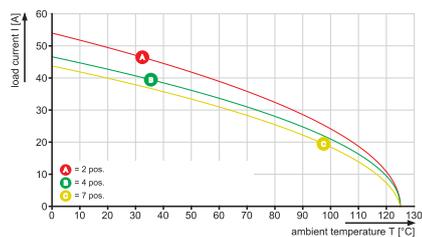
Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1929410000
3	15.24	0.600	100	1929420000
4	22.86	0.900	100	1929430000
5	30.48	1.200	50	1929440000
6	38.10	1.500	50	1929450000
7	45.72	1.800	50	1929460000

Ordering data

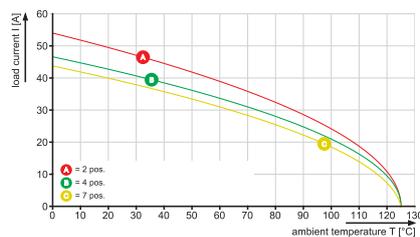
Solder pin length		3.5 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1929520000
3	15.24	0.600	100	1929530000
4	22.86	0.900	100	1929540000
5	30.48	1.200	50	1929550000
6	38.10	1.500	50	1929560000
7	45.72	1.800	50	1929570000

Additional deratings curves

BVL 7.62HP../270 - SV 7.62HP../180



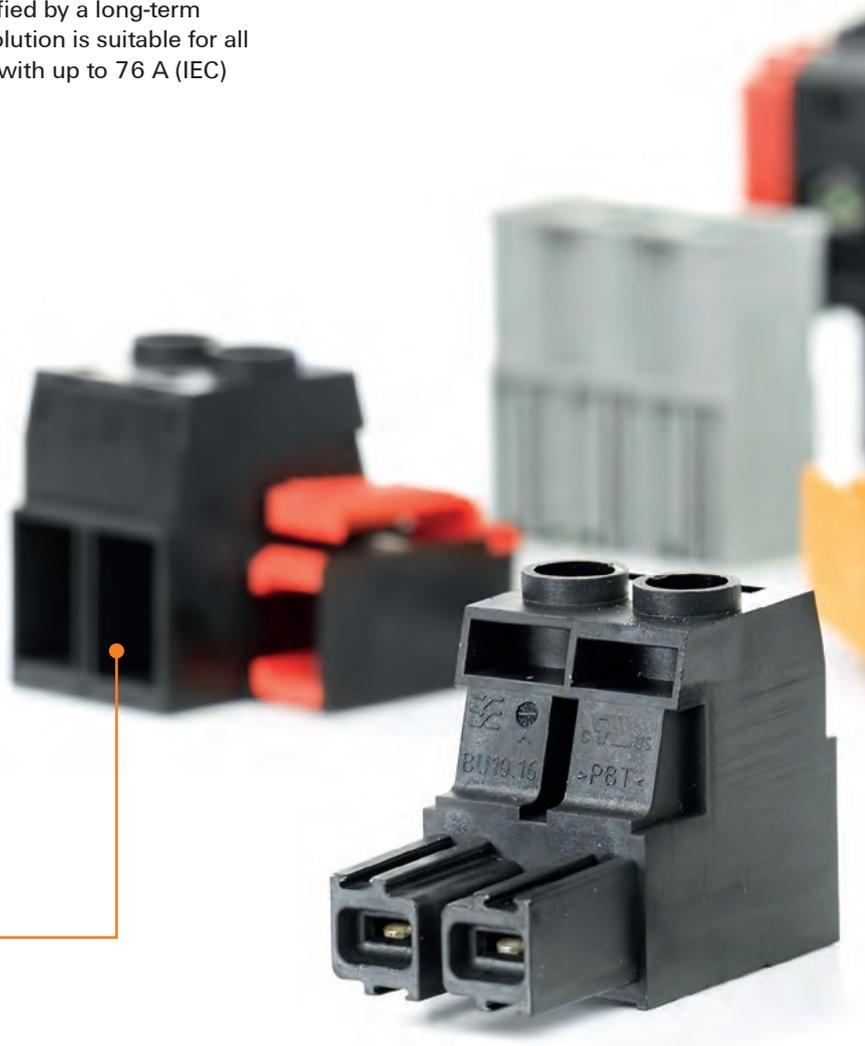
BVL 7.62HP../270 - SV 7.62HP../90



Increased current for better performance

The top class in the OMNIMATE Power SU / BUZ 10.16HP connector system features a very durable contact system which makes it a pluggable power transmission solution with maximum load reserves.

HP stands for High Performance – performance exemplified by a long-term usage temperature of 120 °C. This custom, pluggable solution is suitable for all applications that must meet 600 V UL or 1,000 V (IEC) with up to 76 A (IEC) and 54 A (UL).



Compact reliability

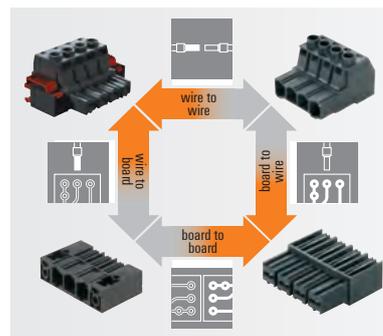
Silver-plated contacts with stainless-steel top springs can tolerate short-circuit currents of 1,000 A for one second. Weidmüller's classic clamping yoke features a plus-minus screw and is protected against under insertion. It ensures a long-term, reliable connection.





High system performance

The OMNIMATE Power System up to 16 mm² can be individually combined with plugging mates that have an interlocking flange. It is also possible for the plugging mate to be screwed on.



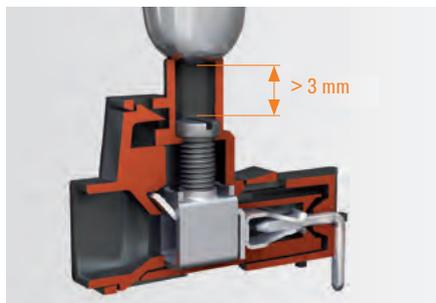
Individualised configuration

Clear printed labelling and customised coding are used to prevent damage that could be caused by installation mistakes.



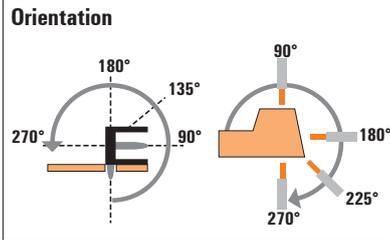
Compact integration

No compromises during design and approval: compact and standard-compliant with additional + 3.0 mm finger safety, according to IEC 61800-5-1, and increased creepage and clearance distances according to UL.



<http://www.OMNIMATE.net>

-  = Wire-to-Board
-  = Board-to-Board
-  = Wire-to-Wire
-  = Board-to-Wire



BU/SU 10.16 series



Type

Orientation

Flange options

Product code numbers

Page

		Type	Orientation	Flange options	Product code numbers	Page
Female plug	 Screw Clamping yoke	 BUZ	180°	(G)/F/SF	IEC: 1.000 V/78 A/0.2 - 16 mm ² UL: 600 V/54 A/AWG 22 - 6	I.131
Female header	 Solder connection	 BUL	180°	on request	IEC: 630 V/75 A	I.132

Female:
(G) = without flange
F = Interlock flange
SF = Interlock flange with screw

Pin:
G = Closed (without flange)
F = Interlock flange
SF = Interlock flange with nut

Male header	Male plug
 Solder connection	 Screw Clamping yoke

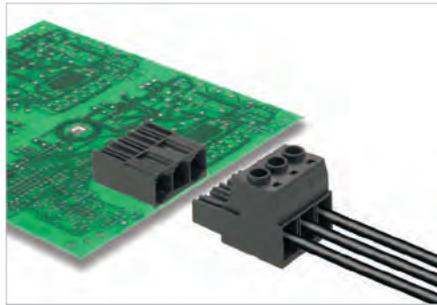


SU	SU	SU	SUZ
90°	180°	270°	180°
G/F	G/F/SF	G/F/SF	G
IEC: 1.000 V/76 A/ UL: 300 V/54 A	IEC: 1.000 V/76 A/ UL: 300 V/54 A	IEC: 1.000 V/76 A/ UL: 300 V/54 A	IEC: 1.000 V/78 A/ 0.2 - 16 mm ² UL: 600 V/54 A/ AWG 24 - 6
I.122	I.124	I.126	I.128
○	○	○	●
●	●	●	●



Connectors in 10.16 mm pitch
Series BU/SU 10.16 - connects up to 16 mm²

SU 10.16HP../90



Male header in 90° outlet direction for TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1. Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	76	72
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	690	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	54	54 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	54	54 5
AWG conductor	AWG		-
General data			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A
 UL: 300 V / 54 A



For additional articles and information, refer to catalog.weidmueller.com

Note:

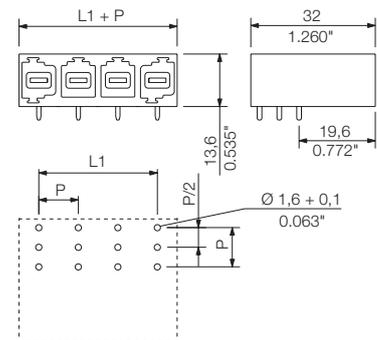
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SU 10.16HP../90G

without flanges



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BV/SV7.62	1824410000

Ordering data

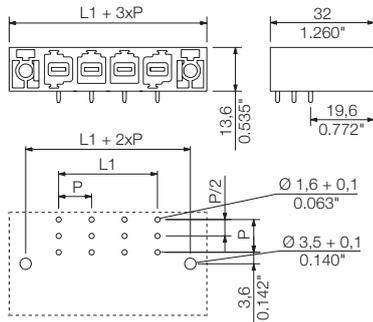
Solder pin length		3.5 mm		
Colour		Black		
Pitch 10.16 mm				
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1813330000
3	20.32	0.800	50	1813340000
4	30.48	1.200	50	1813350000
5	40.64	1.600	20	1813360000
6	50.80	2.000	20	1813370000
7	60.96	2.400	20	1813380000
8	71.12	2.800	20	1813390000
9	81.28	3.200	20	1813400000

SU 10.16HP../.90F

Interlock flanges



Dimensioned drawing

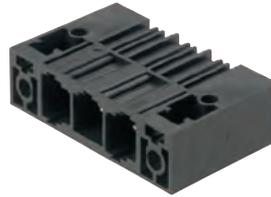


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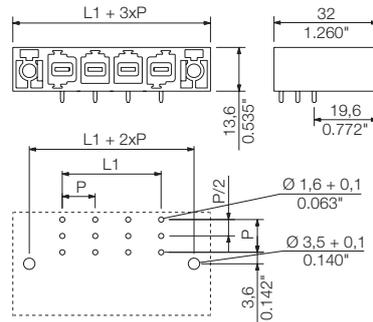
Solder pin length		3.5 mm		
Colour		Black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1813570000
3	20.32	0.800	50	1813580000
4	30.48	1.200	50	1813590000
5	40.64	1.600	20	1813600000
6	50.80	2.000	20	1813610000
7	60.96	2.400	20	1813620000
8	71.12	2.800	20	1813630000
9	81.28	3.200	20	1813640000

SU 10.16HP../.90SF

Interlock flanges with nuts



Dimensioned drawing

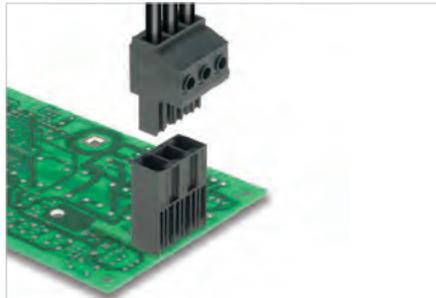


Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1851040000
3	20.32	0.800	50	1851050000
4	30.48	1.200	50	1851060000
5	40.64	1.600	20	1851070000
6	50.80	2.000	20	1851080000
7	60.96	2.400	20	1851090000
8	71.12	2.800	20	1851100000
9	81.28	3.200	20	1851110000

Connectors in 10.16 mm pitch
Series BU/SU 10.16 - connects up to 16 mm²

SU 10.16HP../180



Male header in 180° outlet direction for TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1. Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	74	68
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	690	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	54	54 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	54	54 5
AWG conductor	AWG		-
General data			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 74 A
 UL: 300 V / 54 A



For additional articles and information, refer to catalog.weidmuller.com

Note:

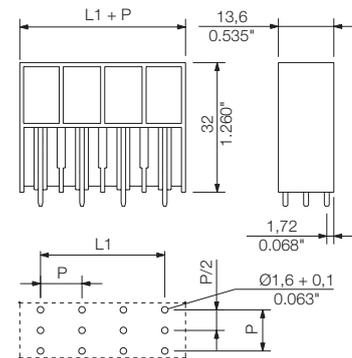
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SU 10.16HP../180G

without flanges



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Protection against twisting		Order No.
	VDS180 SV7.62	1853940000
Coding		
	KO BV/SV7.62	1824410000

Ordering data

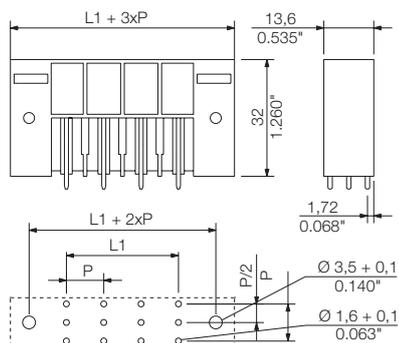
Solder pin length		3.5 mm		
Colour		Black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1813410000
3	20.32	0.800	50	1813420000
4	30.48	1.200	50	1813430000
5	40.64	1.600	20	1813440000
6	50.80	2.000	20	1813450000
7	60.96	2.400	20	1813460000
8	71.12	2.800	20	1813470000
9	81.28	3.200	20	1813480000

SU 10.16HP../180F

Interlock flanges



Dimensioned drawing



Ordering data

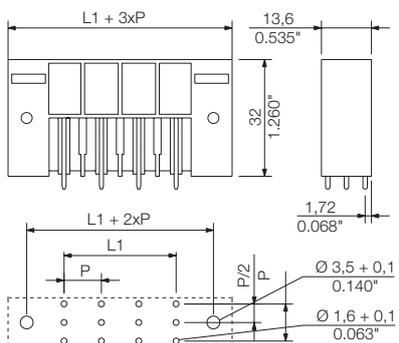
Solder pin length		3.5 mm		
Colour		Black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1813650000
3	20.32	0.800	50	1813660000
4	30.48	1.200	50	1813670000
5	40.64	1.600	20	1813680000
6	50.80	2.000	20	1813690000
7	60.96	2.400	20	1813700000
8	71.12	2.800	20	1813710000
9	81.28	3.200	20	1813720000

SU 10.16HP../180SF

Interlock flanges with nuts



Dimensioned drawing

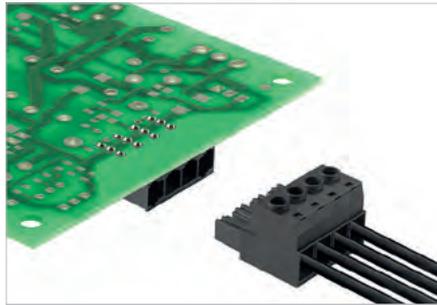


Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1850880000
3	20.32	0.800	50	1850890000
4	30.48	1.200	50	1850900000
5	40.64	1.600	20	1850910000
6	50.80	2.000	20	1850920000
7	60.96	2.400	20	1850930000
8	71.12	2.800	20	1850940000
9	81.28	3.200	20	1850950000

Connectors in 10.16 mm pitch
Series BU/SU 10.16 - connects up to 16 mm²

SU 10.16HP../270



Male header in 270° outlet direction for TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1. Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	76	72
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	690	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	54	54 5
AWG conductor	AWG		-
CSA (Use Group)		B	C D
Rated voltage	V	300	300 600
Rated current	A	54	54 5
AWG conductor	AWG		-
General data			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A
 UL: 300 V / 54 A



For additional articles and information, refer to catalog.weidmuller.com

Note:

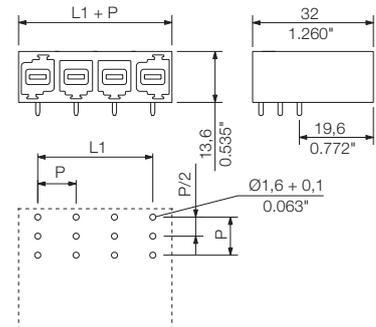
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SU 10.16HP../270G

without flanges



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BV/SV7.62	1824410000

Ordering data

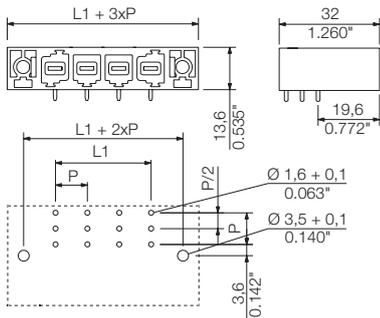
Solder pin length		3.5 mm		
Colour		Black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1813490000
3	20.32	0.800	50	1813500000
4	30.48	1.200	50	1813510000
5	40.64	1.600	20	1813520000
6	50.80	2.000	20	1813530000
7	60.96	2.400	20	1813540000
8	71.12	2.800	20	1813550000
9	81.28	3.200	20	1813560000

SU 10.16HP../270F

Interlock flanges



Dimensioned drawing



Ordering data

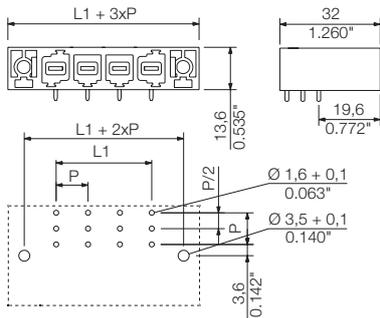
Solder pin length		3.5 mm		
Colour		Black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1813730000
3	20.32	0.800	50	1813740000
4	30.48	1.200	50	1813750000
5	40.64	1.600	20	1813760000
6	50.80	2.000	20	1813770000
7	60.96	2.400	20	1813780000
8	71.12	2.800	20	1813790000
9	81.28	3.200	20	1813800000

SU 10.16HP../270SF

Interlock flanges with nuts



Dimensioned drawing



Ordering data

Solder pin length		3.5 mm		
Colour		Black		
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1851120000
3	20.32	0.800	50	1851130000
4	30.48	1.200	50	1851140000
5	40.64	1.600	20	1851150000
6	50.80	2.000	20	1851160000
7	60.96	2.400	20	1851170000
8	71.12	2.800	20	1851180000
9	81.28	3.200	20	1851190000

Connectors in 10.16 mm pitch
Series BU/SU 10.16 - connects up to 16 mm²

SUZ 10.16HP/./180



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch safety of more than 3 mm according to IEC 61800-5-1 when connected.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange on request.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.2...16	
Solid core H05(07) V-U	mm²	0.2...16	
Stranded H07 V-R		6...16	
Flexible H05(07) V-K	mm ²	0.5...16	
Flexible with ferrule	mm ²	0.25...16	
Ferrule with plastic collar	mm ²	0.25...10	
Stripping length	mm	12	
Screwdriver blade	mm	1.0 x 5.5	
According to norm		DIN 5264	
Tightening torque range	Nm	1.2...1.5	
Rated current, max.	A	78	72
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	16	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	1000	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	54	54 5
AWG conductor	AWG		24-6
CSA (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	54	54 5
AWG conductor	AWG		24-6
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		silver-plated	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 78 A / 0.2 - 16 mm²
 UL: 600 V / 54 A / AWG 24 - 6



For additional articles and information, refer to catalog.weidmueller.com

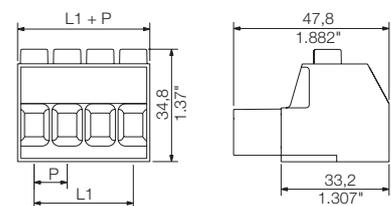
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SUZ 10.16HP/./180G



Dimensioned drawing



Ordering data

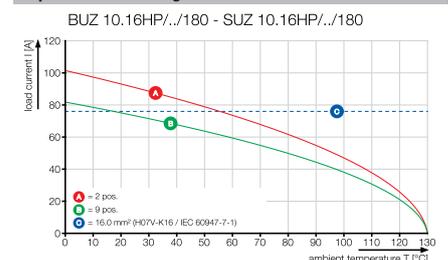
Solder pin length					
Colour					Black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	50	1947480000	
3	20.32	0.800	50	1947490000	
4	30.48	1.200	50	1947500000	
5	40.64	1.600	20	1947510000	
6	50.80	2.000	20	1966920000	
7	60.96	2.400	20	1966930000	
8	71.12	2.800	20	1962400000	
9	81.28	3.200	20	1966910000	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	KO BV/SV7.62	1824410000
Screwdriver		
	SDIS 1.0X5.5X125	9008410000
Crosshead screwdriver		
	SDIK PZ2	9008890000
	SDK PZ2	9008540000

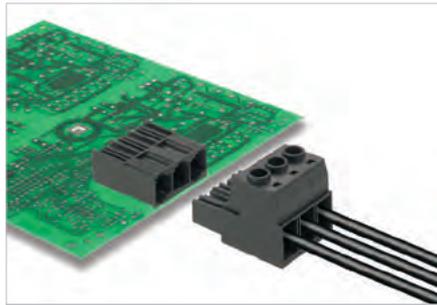
Representative deratings curve





Connectors in 10.16 mm pitch
Series BU/SU 10.16 - connects up to 16 mm²

BUZ 10.16HP/./180



Female plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Meets the requirements of UL 1059 for 600 V Use Group C. Ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.2...16	
Solid core H05(07) V-U	mm²	0.2...16	
Stranded H07 V-R	mm ²	6...16	
Flexible H05(07) V-K	mm ²	0.5...16	
Flexible with ferrule	mm ²	0.25...16	
Ferrule with plastic collar	mm ²	0.25...10	
Stripping length	mm	12	
Screwdriver blade	mm	1.0 x 5.5	
According to norm		DIN 5264	
Tightening torque range	Nm	1.2...1.5	
Rated current, max.	A	78	72
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	16	
Overtolerance category		III	III II
Pollution severity		3	2 2
Rated voltage	V	1000	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	54	54 5
AWG conductor	AWG	22-6	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	54	54 5
AWG conductor	AWG	22-6	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		silver-plated	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 78 A / 0.2 - 16 mm²
 UL: 600 V / 54 A / AWG 22 - 6



For additional articles and information, refer to catalog.weidmuller.com

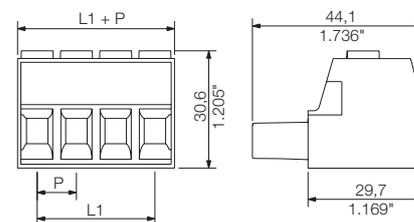
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BUZ 10.16HP/./180



Dimensioned drawing



Ordering data

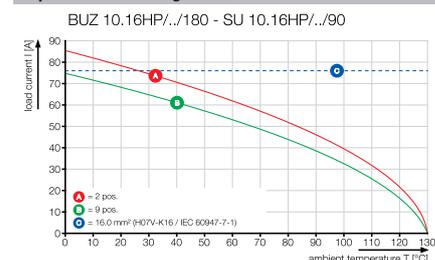
Solder pin length				
Colour	Black			
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1924540000
3	20.32	0.800	50	1924550000
4	30.48	1.200	50	1924560000
5	40.64	1.600	20	1924570000
6	50.80	2.000	20	1924580000
7	60.96	2.400	20	1924590000
8	71.12	2.800	20	1924600000
9	81.28	3.200	20	1924610000

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
_____	KO BV/SV7.62 1824410000
Screwdriver	
_____	SDIS 1.0X5.5X125 9008410000
Crosshead screwdriver	
_____	SDIK PZ2 9008890000
_____	SDK PZ2 9008540000

Representative deratings curve



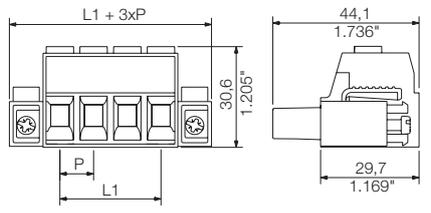
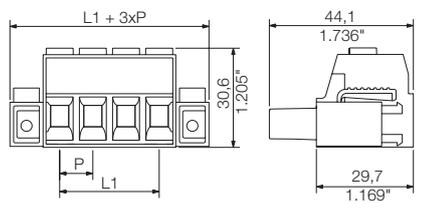
BUZ 10.16HP../180F

BUZ 10.16HP../180SF



Dimensioned drawing

Dimensioned drawing



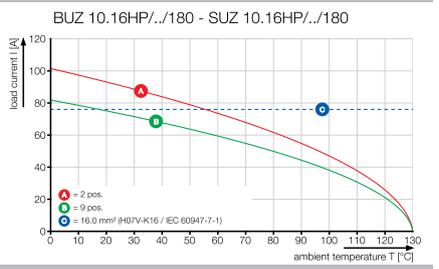
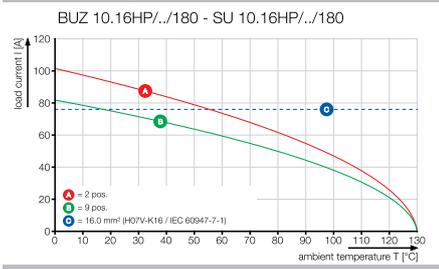
Ordering data

Solder pin length					
Colour					Black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	50	1924620000	
3	20.32	0.800	24	1924630000	
4	30.48	1.200	20	1924640000	
5	40.64	1.600	16	1924650000	
6	50.80	2.000	20	1924660000	
7	60.96	2.400	12	1924670000	
8	71.12	2.800	20	1924680000	
9	81.28	3.200	20	1924690000	

Ordering data

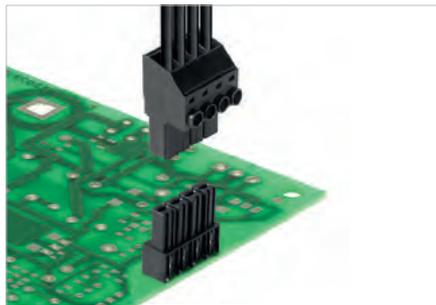
Solder pin length					
Colour					Black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	50	1924700000	
3	20.32	0.800	50	1924710000	
4	30.48	1.200	20	1924720000	
5	40.64	1.600	20	1924740000	
6	50.80	2.000	20	1924750000	
7	60.96	2.400	20	1924760000	
8	71.12	2.800	20	1924770000	
9	81.28	3.200	20	1924780000	

Additional deratings curves



Connectors in 10.16 mm pitch
Series BU/SU 10.16 - connects up to 16 mm²

BUL 10.16HP../180



Finger-safe female header with 180° outlet direction for PCBs. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL 508 / UL 840 for 600 V. An ideal finger-safe solution for power output and DC-link applications. The pin arrangement is finger-safe. The assembly coding ensures that it cannot be assembled on the PCB turned through 180°.

Features:

- Derating up to 130 °C, 100 %
- Pin arrangement that prevents wrong connections or wrong wiring
- Unique coding diversity and assembly coding

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm²		
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	76	69
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtoltage category		III	III
Pollution severity		3	2
Rated voltage	V	630	630
Rated impulse voltage	kV	6	6
UL / CUL (Use Group)		B	C

Rated voltage	V		
Rated current	A		
AWG conductor	AWG		
CSA (Use Group)		B	C

General data		
Type of insulation material	mm	PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		silver-plated
Pin dimensions = d	mm	0.8 x 1.0
Solder eyelet Ø = D	mm	1.3
Solder eyelet Ø tolerance	mm	+ 0,1

Product data

IEC: 1000 V / 76 A

UL:



For additional articles and information, refer to catalog.weidmuller.com

Note:

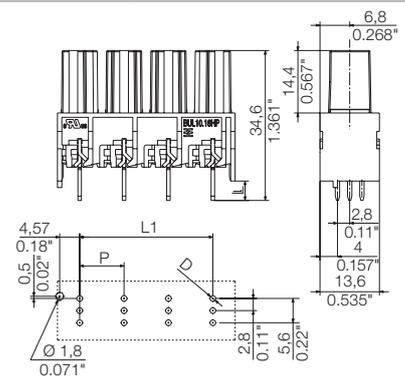
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BUL 10.16HP../180

Without flange



Dimensioned drawing



Ordering data

Solder pin length	4.5 mm		
Colour	Black		
Pitch	10.16 mm		
Pol.	L1	(inch)	Qty. Order No.
2	10.16	0.400	50 1289000000
3	10.16	0.400	50 1341270000
4	10.16	0.400	50 1289010000

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BV/SV7.62	1824410000

Representative deratings curve

