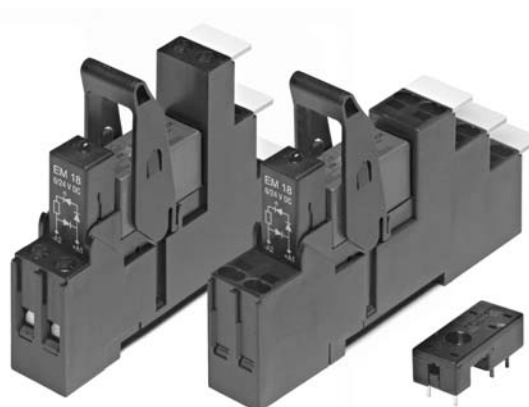


Accessories Industrial Power Relay RT

- For Industrial Power Relay RT
pinnings 3.5mm / 5mm; relay height 15.7 mm
- New retainer clip with ejection function
- Easy replacement of relays on a densely packed DIN rail
- No reduction of protection class or creepage/clearance with plastic retainer
- Simple plug-in indicator- and protection modules
- White snap-on marking tags
- RoHS compliant (Directive 2002/95/EC)

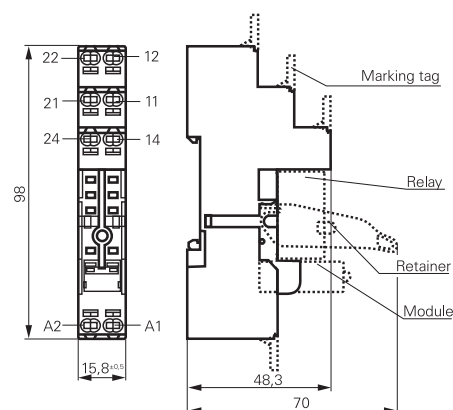


F0228-G

Premium socket with screwless terminals for DIN rail mounting

RT 78 72P Premium socket, logical terminal arrangement

- Screwless Clamps
- Mounting of solid wires without tool
- Double Clamps per terminal
- Jumper links for interconnection
- Open coil circuit for active modules
- Logical terminal arrangement



S0545-CA

Approvals

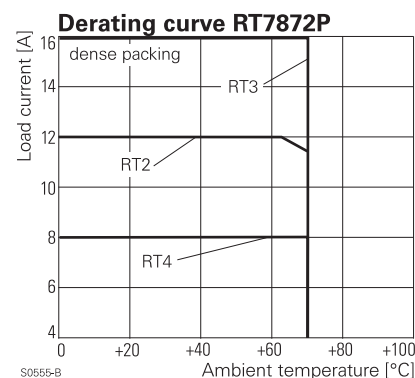
VDE REG.-Nr. 6106, cULus E135149

*) For 1 pole relays (16 A) the relay terminals 11-21, 12-22 and 14-24 have to be bridged.

Technical data

Rated voltage / max. switching voltage AC	240 / 400 VAC
Rated current	2 x 8 A, 16 A*)
Dielectric strength coil-contact circuit	5000 V _{rms}
open contact circuit	1000 V _{rms}
adjacent contact circuits	2500 V _{rms}
Clearance / creepage coil-contact circuit	≥ 10 / 10 mm
Material group of insulation parts	IIIa
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	functional
adjacent contact circuits	functional
Rated insulation voltage	250 V
Pollution degree	2
Rated voltage system	230 / 400 V
Overvoltage category	III
RoHS - Directive 2002/95/EC	compliant

- Not suitable for bistable relays with 2 coils!



Accessories Industrial Power Relay RT (Continued)

Technical data (Continued)

Ambient temperature range	
for mounting/handling	-20...+70°C
in operation	-40...+70°C
Terminals	
Wire strip length	
Wire cross section	
solid wire	1 x 0.75/1/1.5 mm ²
	2 x 0.75/1 mm ²
with standard isolation (no oversize isolation)	2 x 1.5 mm ²
stranded wire	
without bootlace crimp	1 x 0.75/1/1.5 mm ²
	2 x 0.75/1 mm ²
without bootlace crimp with standard isolation	2 x 1.5 mm ²
with bootlace crimp	1 x 0.75/1 mm ²
	2 x 0.75 mm ²
with bootlace crimp without isolation	1 x 1.5 mm ²
or min 18 mm long	

For stranded wires with braids 0.05 mm or smaller the use of bootlace crimps is recommended. When using stranded wires without bootlace crimp the clamp must be opened during insertion.

Insertion cycles	A (10)
Max. Insertion Force total	100 N
Mounting distance	≥ 0, dense packing
Weight	36 g
Packaging unit	10 pcs

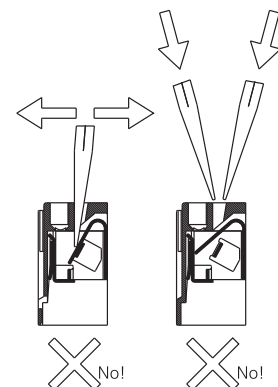
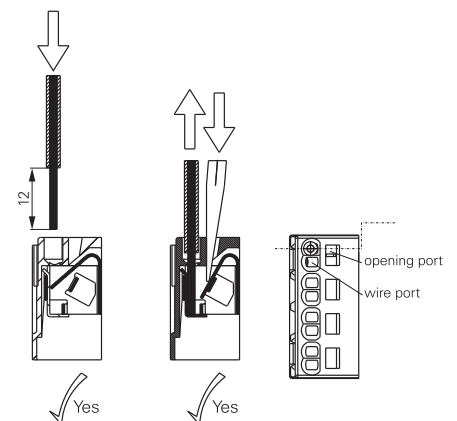
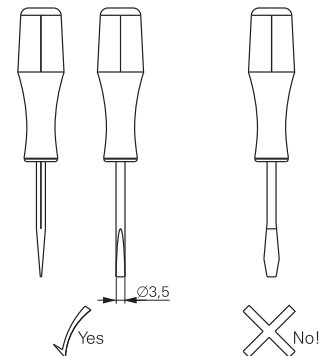
Socket with screwless terminals for DIN rail mounting

Type	Part Number
RT 78 72P Premium socket, logical terminal arrangement Socket with screwless terminals, pinning 5 mm for DIN rail mounting	1860200-1

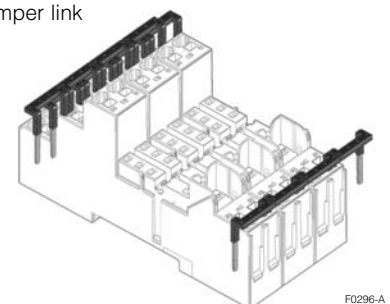
Accessories for RT 78 72P

Type	Part Number
RT 17 017 Plastic retaining clip, relay height 15.7	2022103-1
RT 17 040 Marking tag	2-1415038-1
RT 17 0P1 Jumper link, max load 12 A	1860211-1

How to use, Precautions



Jumper link



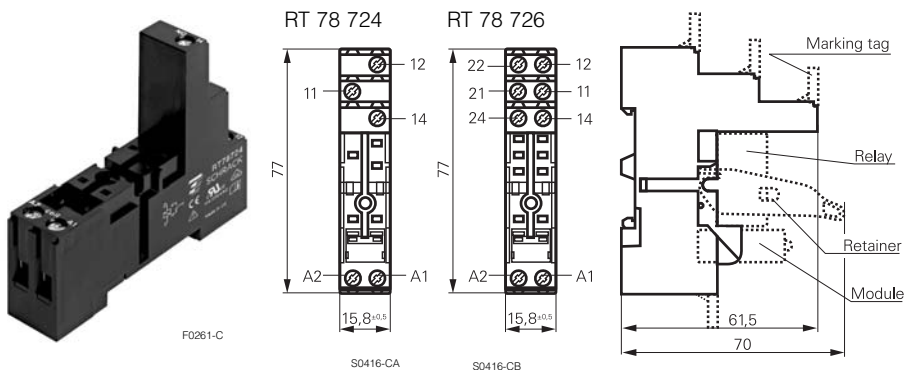
Accessories Industrial Power Relay RT (Continued)

Socket with screw-type terminals for DIN rail mounting

RT 78 724 Socket with screw-type terminals, pinning 3.5 mm for DIN rail mounting

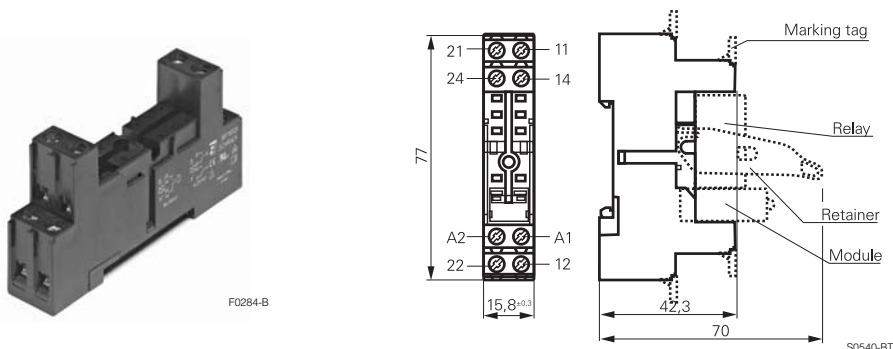
RT 78 726 Socket with screw-type terminals, pinning 5 mm for DIN rail mounting, logical terminal arrangement

- Din-rail socket with logical setup of connections (input/output)
- High quality rising clamp terminals
- Captive combination terminal screws
- Jumper bars for interconnection



RT 78 725 Socket with screw-type terminals, pinning 5 mm for DIN rail mounting, conventional terminal arrangement

- Conventional terminal arrangement



Approvals

VDE REG.-Nr. 6106 in preparation, **UL** E135149

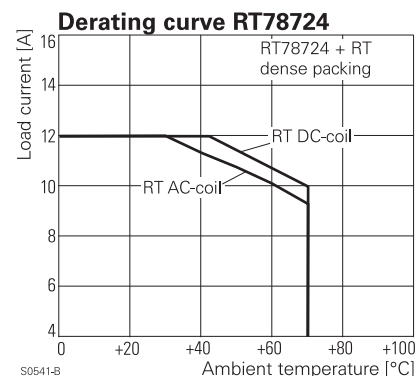
Technical data RT 78 724 / RT 78 726 RT 78 725

Rated voltage / max. switching voltage AC	240 / 400 VAC	
Rated current	12 A, 2 x 8 A, 16 A*)	
Dielectric strength coil-contact circuit	5000 V _{rms}	4000 V _{rms}
open contact circuit	1000 V _{rms}	1000 V _{rms}
adjacent contact circuits	2500 V _{rms}	2500 V _{rms}
Clearance / creepage coil-contact circuit	≥ 10 / 10 mm	≥ 4.7 / 4.7 mm
Material group of insulation parts	IIIa	
Insulation to IEC 60664-1		
Type of insulation coil-contact circuit	reinforced	basic
open contact circuit	functional	
adjacent contact circuits	functional	
Rated insulation voltage	250 V	
Pollution degree	2	
Rated voltage system	230 / 400 V	
Overvoltage category	III	
RoHS - Directive 2002/95/EC	compliant	
Ambient temperature range		
for mounting/handling	-20...+70°C	
in operation	-40...+70°C	

*) For 1 pole relays (16 A) the relay terminals 11-21, 12-22 and 14-24 have to be bridged.

For 1 pole relays (12 A) the relay terminals 11-12-14 have to be connected to the socket terminals 21-12-24

- Not suitable for bistable relays with 2 coils!



Accessories Industrial Power Relay RT (Continued)

Technical data (Continued)	RT 78 724 / RT 78 726	RT 78 725
Terminals	screw	
Terminal screw torque acc. IEC 61984	0.5 Nm	
max.	0.7 Nm	
Wire cross section		
single wire	2 x 2.5 mm ²	
fine wire	2 x 2.5 mm ²	
with bootlace crimp (DIN 46228/1)	2 x 1.5 mm ²	
Insertion cycles	A (10)	
Max. Insertion Force total	100 N	
Mounting distance	≥ 0, dense packing	
Weight	36 g	
Packaging unit	10 pcs	

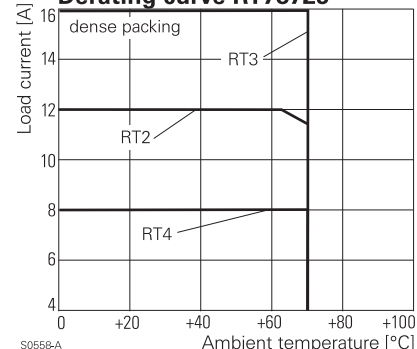
Socket with screw-type terminals for DIN rail mounting

Type	Part Number
RT 78 724 Socket with screw-type terminals, pinning 3.5 mm for DIN rail mounting, logical terminal arrangement	8-1415035-1
RT 78 726 Socket with screw-type terminals, pinning 5 mm for DIN rail mounting, logical terminal arrangement	6-1415035-1
RT 78 725 Socket with screw-type terminals, pinning 5 mm for DIN rail mounting, conventional terminal arrangement	1860306-1

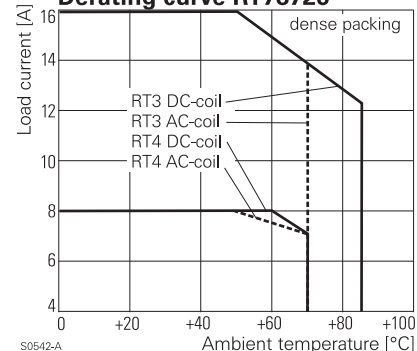
Accessories for RT 78 724, RT 78 725, RT 78 726

Type	Part Number
RT 17 017 Plastic retaining clip, relay height 15.7	2022103-1
RT 17 040 Marking tag	2-1415038-1
RT 17 0R8 Jumper bar, max load 12 A for connection of up to 8 RT sockets	1860517-8

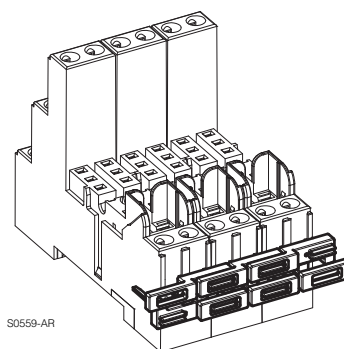
Derating curve RT78725



Derating curve RT78726

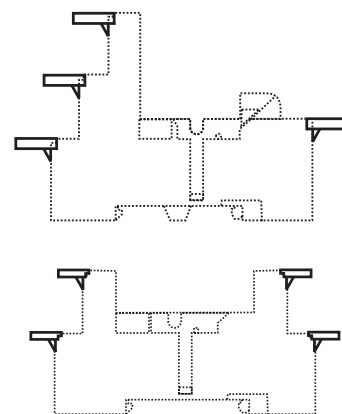


Jumper bar



Marking tags

- White marking area 15.5 x 6 mm
- Snaps on socket in up to 4 positions



Accessories Industrial Power Relay RT (Continued)

LED- and Protection Modules for RT 78 72P, RT 78 724, RT 78 725, RT 78 726

Easy insertion of module into the socket

Wiring in parallel to the coil

Type	Part Number
PTM T0 0A0 EM09 Protection diode (standard, A1+, A2-)	9-1415036-1
PTM T0 0L0 EM01 Protection diode (A1-, A2+)	1415037-1
PTM U0 524 EM02 RC-network 6...60 VAC	1-1415037-1
PTM U0 730 EM03 RC-network 110...230 VAC	2-1415037-1
PTM V0 524 EM04 Varistor 24 VAC	3-1415037-1
PTM V0 615 EM13 Varistor 115 VAC	6-1415365-1
PTM V0 730 EM05 Varistor 230 VAC	4-1415037-1
PTM D0 730 EM31 Residual current bypass RC 110...230 VAC	1415037-2
PTM R0 730 EM29 Residual current bypass resistor 110...230 VAC	1-1415539-2

LED

PTM L0 024 EM18 red LED 6...24 VDC w. prot.diode (std, A1+, A2-)	5-1415036-1
PTM G0 024 EM12 green LED 6...24 VDC w. prot.diode (std, A1+, A2-)	2-1415036-1
PTM L1 024 EM08 red LED 6...24 VDC w. prot. diode (A1-, A2+)	8-1415036-1
PTM L0 060 EM16 red LED 24...60 VDC w. prot.diode (std, A1+, A2-)	5-1415539-3
PTM G0 060 EM25 green LED 24...60 VDC w. prot.diode (std, A1+, A2-)	7-1415539-7
PTM L0 110 EM19 red LED 60...110 VDC w. prot. diode (A1+, A2-)	2-1415392-1
PTM G0 110 EM26 green LED 60...110 VDC w. prot diode (A1+, A2-)	1-1415539-7
PTM L0 220 EM27 red LED 110...220 VDC w. prot. diode (A1+, A2-)	1-1415539-4
PTM G0 220 EM28 green LED 110...220 VDC w. prot diode (A1+, A2-)	1-1415539-6
PTM L0 524 EM07 red LED 6...24 VDC/VAC	6-1415036-1
PTM G0 524 EM11 green LED 6...24 VDC/VAC	3-1415036-1
PTM L0 560 EM14 red LED 24...60 VDC/VAC	1-1415539-3
PTM G0 560 EM30 green LED 24...60 VDC/VAC	1-1415539-5
PTM L0 730 EM06 red LED 110...230 VAC	7-1415036-1
PTM G0 730 EM10 green LED 110...230 VAC	4-1415036-1



Relay Packages

Complete packages consisting of a relay mounted on a socket: see Relay Package RT

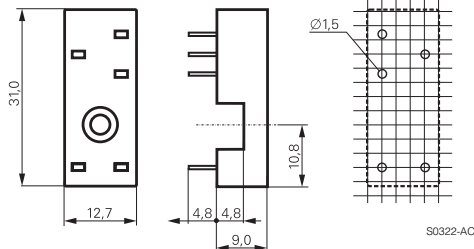
Accessories Industrial Power Relay RT (Continued)

Sockets for PCB mount

RP 78 601 Socket with PCB terminals, pinning 3.5 mm



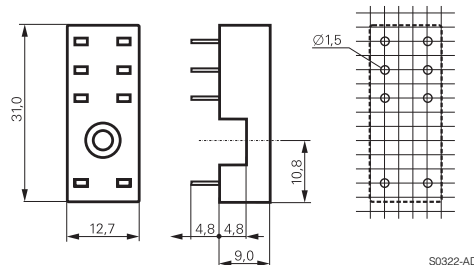
F0116-A



RP 78 602 Socket with PCB terminals, pinning 5 mm



F0117-A



Approvals

UL E135149

Technical data

RP 78 601 / RP 78 602

Rated voltage / max. switching voltage AC	240 / 400 VAC
Rated current	12 A*)
Limiting continuous current	see derating curve
Dielectric strength coil-contact circuit	4000 V _{rms}
open contact circuit	1000 V _{rms}
adjacent contact circuits	2500 V _{rms}
Clearance / creepage coil-contact circuit	≥ 10 / 10 mm
Material group of insulation parts	IIIa
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	functional
adjacent contact circuits	functional
Rated insulation voltage	250 V
Pollution degree	2
Rated voltage system	230 / 400 V
Overvoltage category	III
RoHS - Directive 2002/95/EC	compliant
Ambient temperature range	-40...+80°C
Terminals	pcb
Insertion cycles	A (10)
Max. Insertion Force total	100 N
Mounting distance	≥ 0, dense packing
Resistance to soldering heat	270°C / 10 s
Weight	3 g
Packaging unit	100 pcs

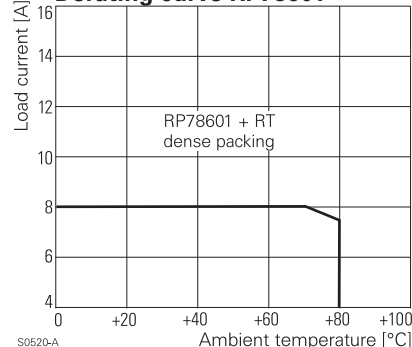
Socket with PCB terminals

Type		Part Number
RP 78 601	Socket with PCB terminals, pinning 3.5 mm	8-1393234-4
RP 78 602	Socket with PCB terminals, pinning 5 mm	8-1393234-5

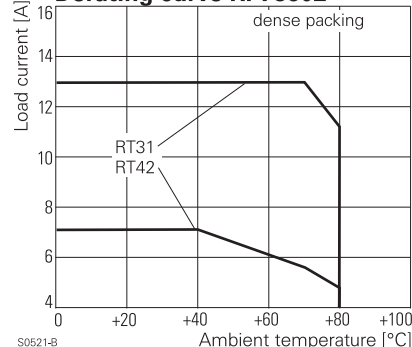
Accessories for RP 78 601, RP 78 602

Type		Part Number
RT 16 041	Plastic retaining clip RT, relay height 15.7 mm	3-1393161-4
RT 28 516	Metal retaining clip RT, relay height 15.7 mm	1419108-7

Derating curve RP78601



Derating curve RP78602



*) For 1 pole relays (16 A) the relay terminals 11-21, 12-22 and 14-24 have to be bridged on the PCB.