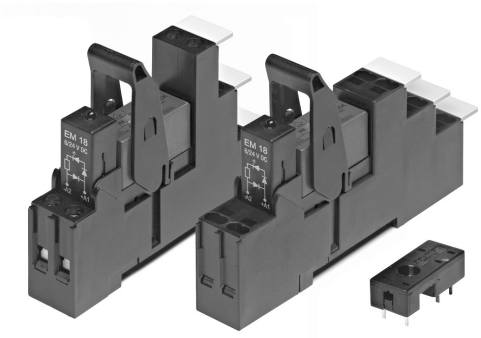
Accessories Industrial Power Relay RT

- **For Industrial Power Relay RT pinnings 3.5 mm / 5 mm; 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**

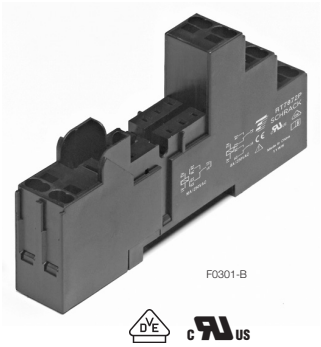


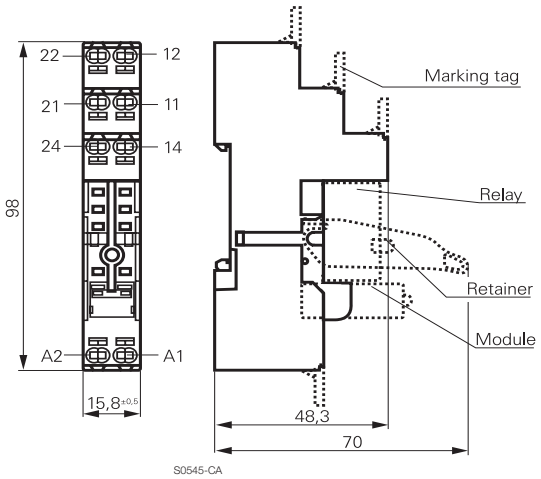
F0228-G

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**


F0301-B



S0545-CA

Approvals

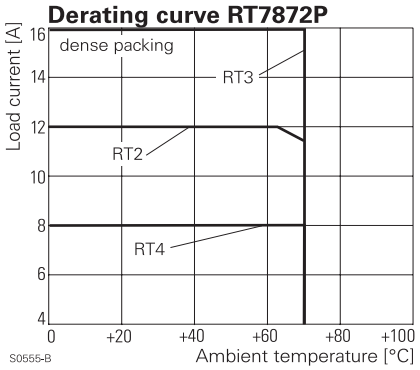
VDE Cert. No. 40007571, cULus E135149

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
Flammability class UL 94	V-0
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

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

- Not suitable for bistable relays with 2 coils!



S0555-B

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Accessories Industrial Power Relay RT (Continued)

Technical data (continued)

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature range	
for mounting/handling	-20…+70°C
in operation	-40…+70°C
Terminals	screwless
Wire strip length	12 mm
Wire cross section	
solid wire	1x0.75/1/1.5mm²
	2x0.75/1mm²
with stand. isolation (no oversize isolation)	2x1.5mm²
stranded wire	
without bootlace crimp	1x0.75/1/1.5mm²
	2x0.75/1mm²
without bootlace crimp with stand. isolation	2x1.5mm²
with bootlace crimp	1x0.75/1mm²
	2x0.75mm²
with bootlace crimp without isolation or min 18 mm long	1x1.5mm²

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

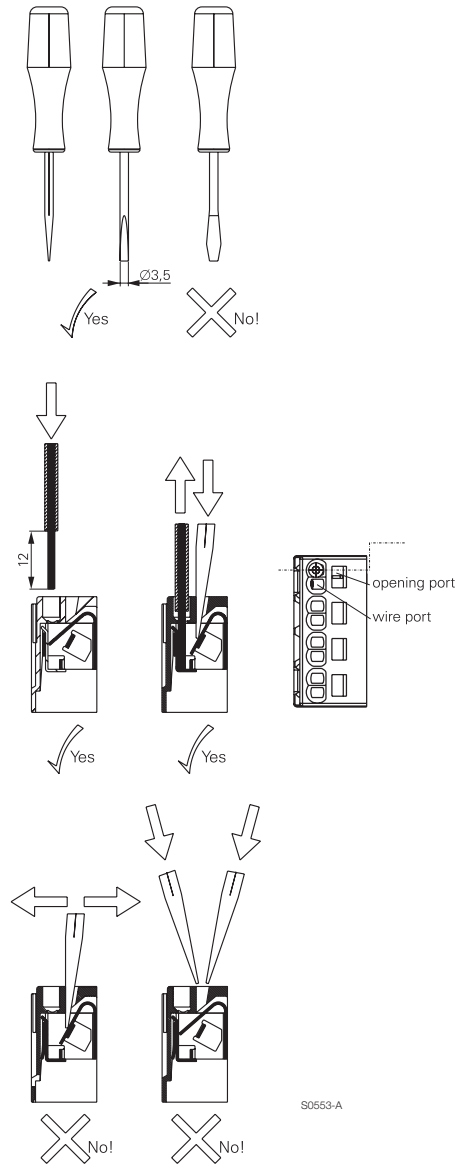
Socket with screwless terminals for DIN rail mounting

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

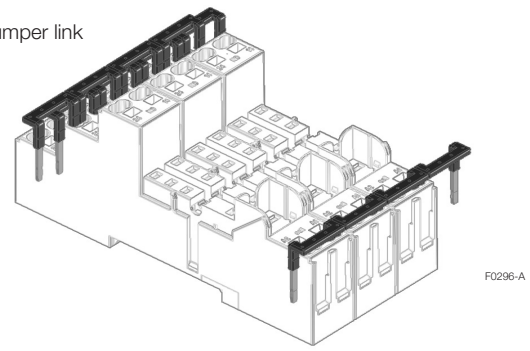
Accessories for RT 78 72P

Type		Part Number
RT 17 017	Plastic retaining clip, relay height 15.7 mm	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



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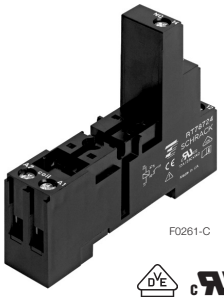
Accessories Industrial Power Relay RT (Continued)

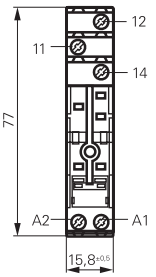
Socket with screw-type terminals for DIN rail mounting

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**

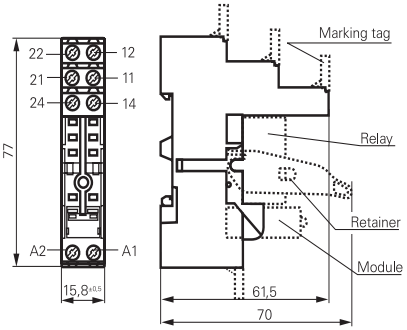


RT 78 724



S0416-CA

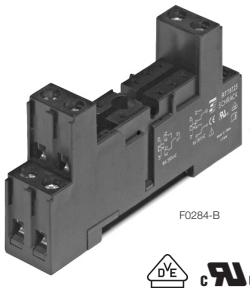
RT 78 726

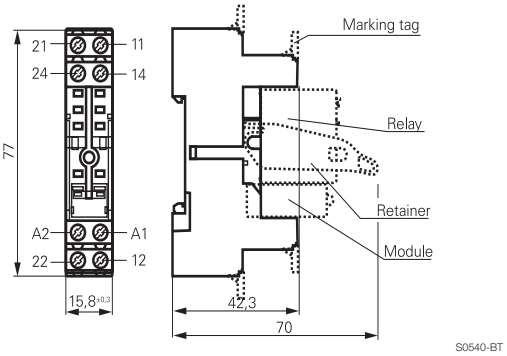


S0416-CB

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

- **Conventional terminal arrangement**





S0540-BT

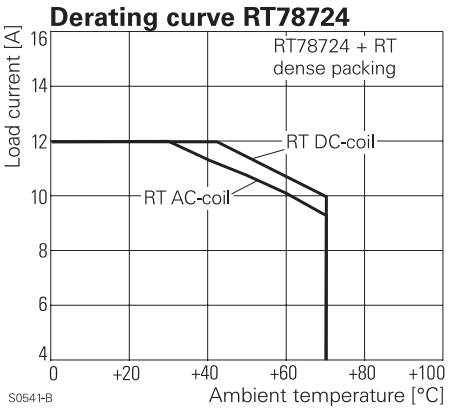
Approvals

VDE Cert. No. 40007571, cULus E135149

Technical data	RT78724/RT78726	RT78725
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	
Flammability class UL 94	V-0	
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	
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter		

*) 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 21-12-14.

- Not suitable for bistable relays with 2 coils!



S0541-B

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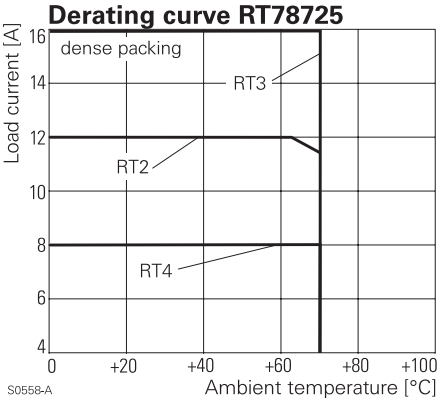
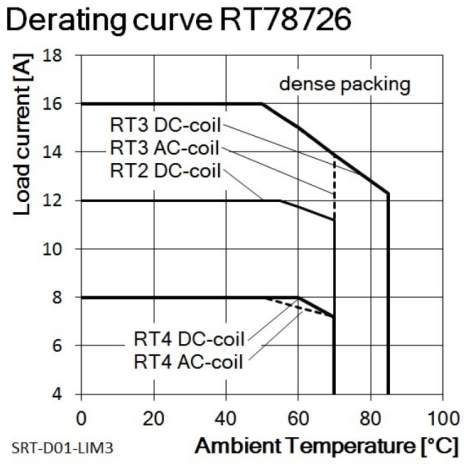
Accessories Industrial Power Relay RT (Continued)

Technical data (continued)	RT78724/RT78726	RT78725
Ambient temperature range		
for mounting/handling	-20…+70°C	
in operation	-40…+70°C	
Terminals	screw	
Terminals screw torque acc. IEC 61984	0.5 Nm	
max.	0.7 Nm	
Terminal Screw size	M3	
Wire strip length	8 mm	
Wire cross section		
single wire	2 x 2.5 mm²	
fine wire	2 x 2.5 mm²	
with bootlace crimp (DIN 46228/1)	2 x 1.5 mm²	
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



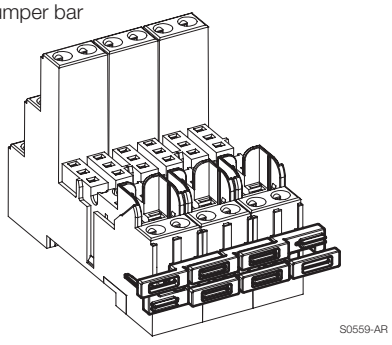
Accessories for RT 78 724, RT 78 725, RT 78 726

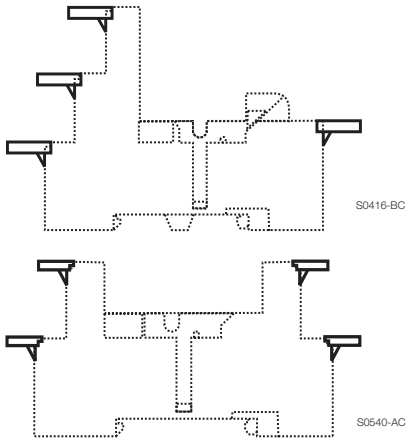
Type		Part Number
RT 17 017	Plastic retaining clip, relay height 15.7 mm	2022103-1
RT 28 816	Metal retaining clip, relay height 15.7 mm	1415540-8
RT 17 040	Marking tag	2-1415038-1
RT 17 0R8	Jumper bar, max load 12 A for connection of up to 8 RT sockets	1860517-8

Marking tags

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

Jumper bar





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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

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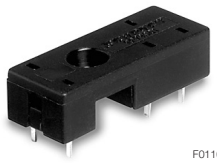
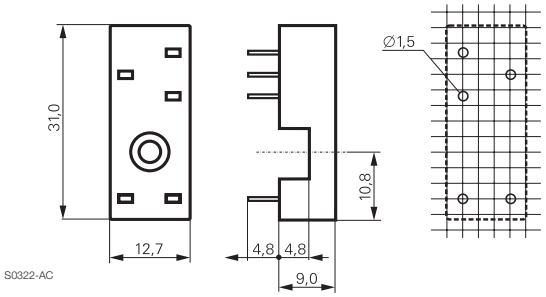
Accessories Industrial Power Relay RT (Continued)

Sockets for PCB mount

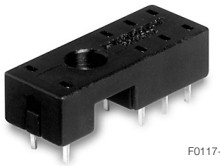
RP 78 601, Socket with PCB terminals, pinning 3.5 mm

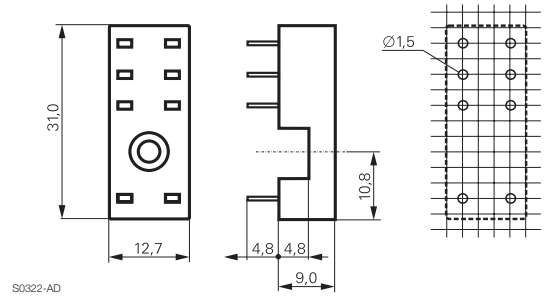

F0116-A



S0322-AC

RP 78 602, Socket with PCB terminals, pinning 5 mm


F0117-A



S0322-AD

Approvals

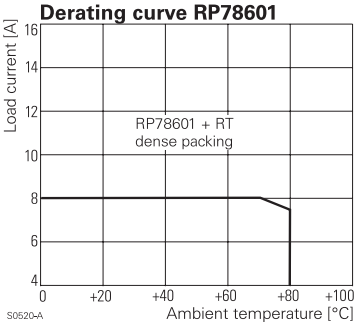
cULus E135149

Technical data	RP 78 601/RP 78 602
Rated voltage/max. switching voltage AC	240/400 VAC
Rated current	12 A*)
Limiting continous 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
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter	

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

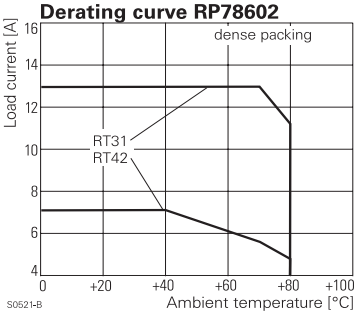
*) For 1 pole relays (16 A) the relay terminals 11-21, 12-22 and 14-24 have to be bridged on the PCB.

Derating curve RP78601



S0520-A

Derating curve RP78602



S0521-B

Sockets 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

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