



## 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](http://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	1x0.75/1/1.5mm <sup>2</sup> 2x0.75/1mm <sup>2</sup>
with stand. isolation (no oversize isolation)	2x1.5mm <sup>2</sup>
stranded wire	
without bootlace crimp	1x0.75/1/1.5mm <sup>2</sup> 2x0.75/1mm <sup>2</sup>
without bootlace crimp with stand. isolation	2x1.5mm <sup>2</sup>
with bootlace crimp	1x0.75/1mm <sup>2</sup> 2x0.75mm <sup>2</sup>
with bootlace crimp without isolation	1x1.5mm <sup>2</sup>
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

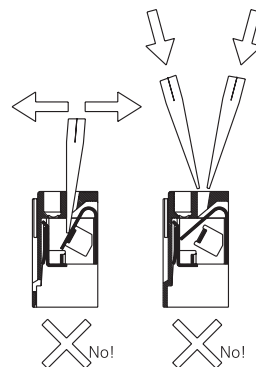
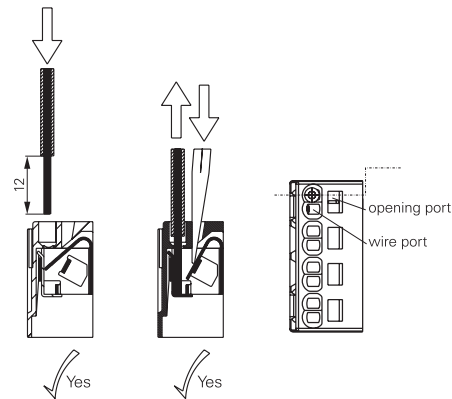
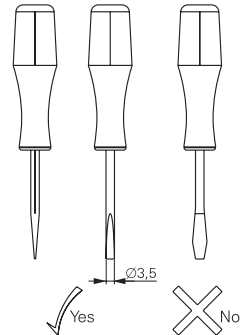
### Socket with screwless terminals for DIN rail mounting

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

### Accessories for RT 78 72P

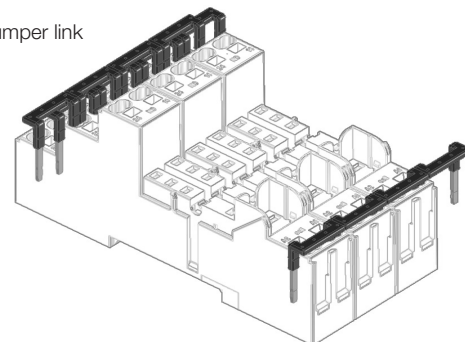
Type	Part Number
<b>RT 17 017</b> Plastic retaining clip, relay height 15.7 mm	2022103-1
<b>RT 17 040</b> Marking tag	2-1415038-1
<b>RT 17 0P1</b> Jumper link, max load 12 A	1860211-1

### How to use, Precautions



S0553-A

Jumper link



F0296-A

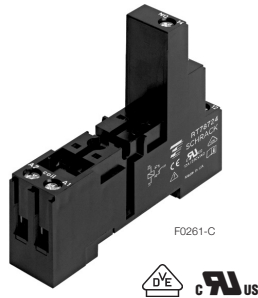
## Accessories Industrial Power Relay RT (Continued)

### Socket with screw-type terminals for DIN rail mounting

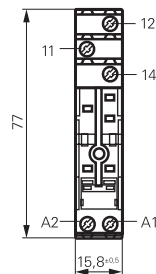
**RT 78 724** Socket with screw-type terminals, pinning 3.5 mm for DIN rail mounting

**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

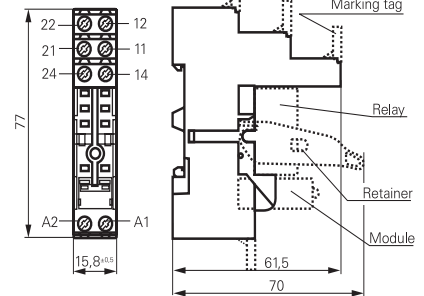


**RT 78 724**



S0416-CA

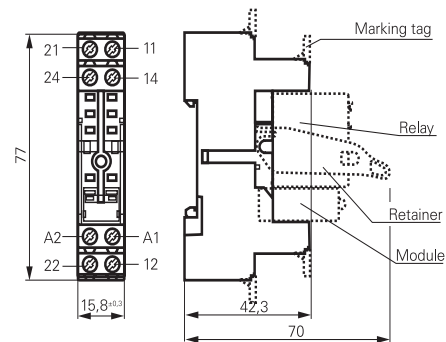
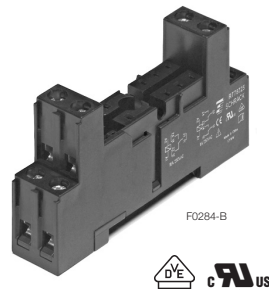
**RT 78 726**



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

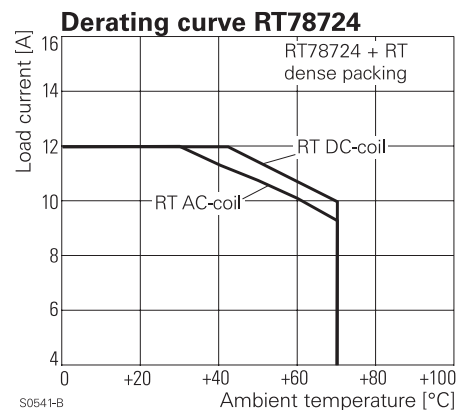
### Approvals

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 <sub>rms</sub>	4000 V <sub>rms</sub>
open contact circuit	1000 V <sub>rms</sub>	1000 V <sub>rms</sub>
adjacent contact circuits	2500 V <sub>rms</sub>	2500 V <sub>rms</sub>
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 <a href="http://www.te.com/customer-support/rohssupportcenter">www.te.com/customer-support/rohssupportcenter</a>		

\*) 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!



**Accessories Industrial Power Relay RT (Continued)**

Technical data (continued) RT78724/RT78726 RT78725	
Ambient temperature range for mounting/handling in operation	-20...+70°C -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 mm <sup>2</sup>
fine wire	2 x 2.5 mm <sup>2</sup>
with bootlace crimp (DIN 46228/1)	2 x 1.5 mm <sup>2</sup>
Insertion cycles	A (10)
Max. Insertion Force total	100 N
Mounting distance	≥ 0, dense packing
Weight	36 g
Packaging unit	10 pcs

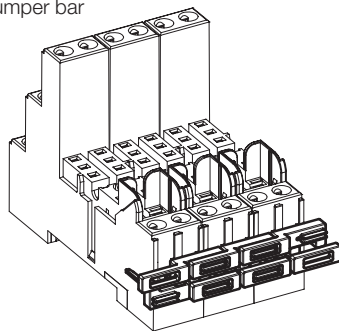
**Socket with screw-type terminals for DIN rail mounting**

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

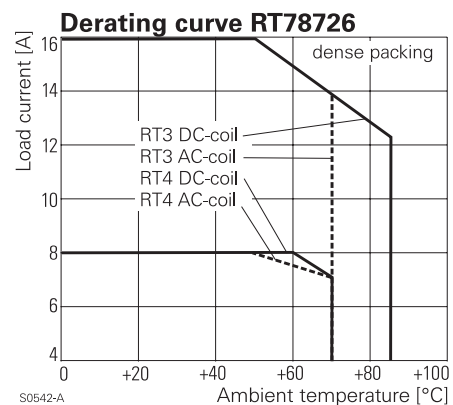
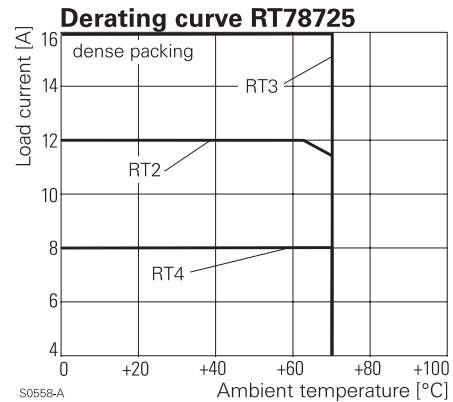
**Accessories for RT 78 724, RT 78 725, RT 78 726**

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

Jumper bar

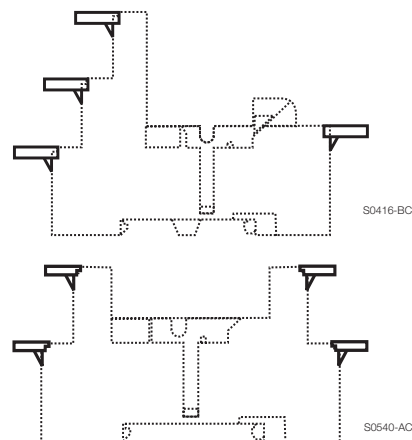


S0559-AR



**Marking tags**

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

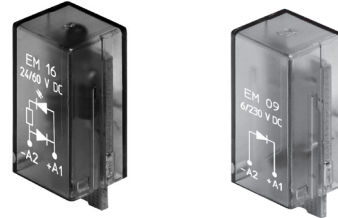


## Accessories Industrial Power Relay RT (Continued)

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



### LED

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

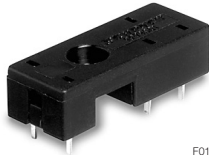
### Relay Packages

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

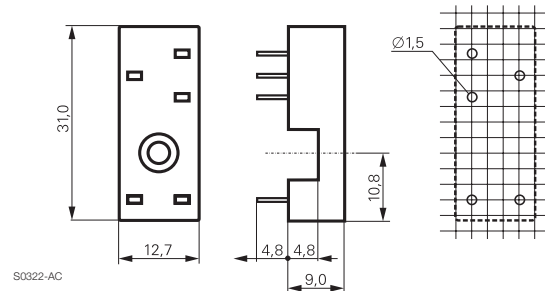
## Accessories Industrial Power Relay RT (Continued)

### Sockets for PCB mount

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

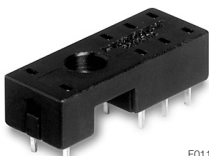


F0116-A

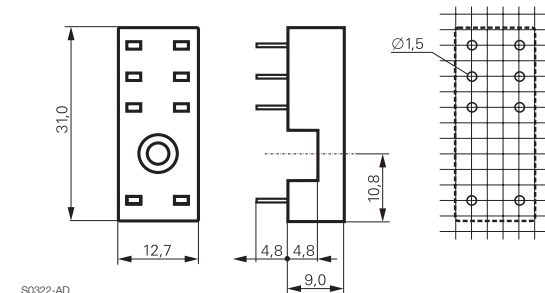


S0322-AC

**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

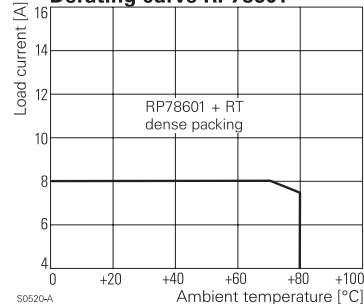
Rated voltage/max. switching voltage AC	240/400 VAC
Rated current	12 A*)
Limiting continuous current	see derating curve
Dielectric strength	
coil-contact circuit	4000 V <sub>rms</sub>
open contact circuit	1000 V <sub>rms</sub>
adjacent contact circuits	2500 V <sub>rms</sub>
Clearance / creepage	
coil-contact 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](http://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

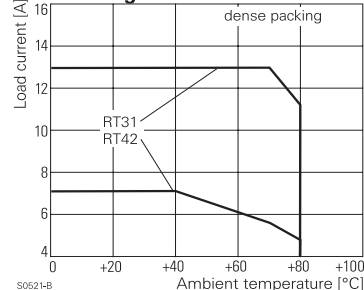
\*) For 1 pole relays (16 A) the relay terminals 11-21, 12-22 and 14-24 have to be bridged on the PCB.

### Derating curve RP78601



S0520-A

### Derating curve RP78602



S0521-B

### Sockets with PCB terminals

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

### Accessories for RP 78 601, RP 78 602

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