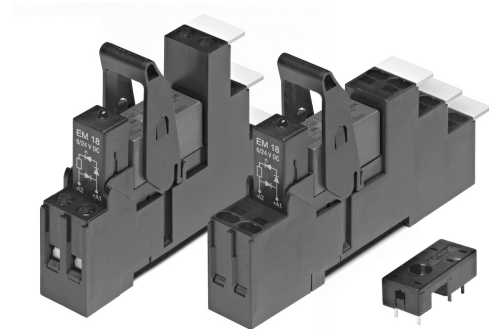


## Accessories Industrial Power Relay RT

- 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

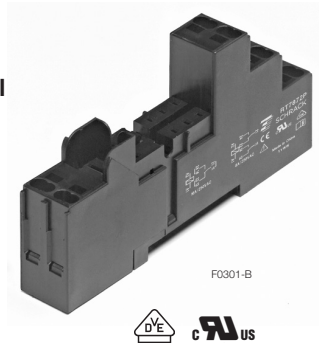


F0228-G

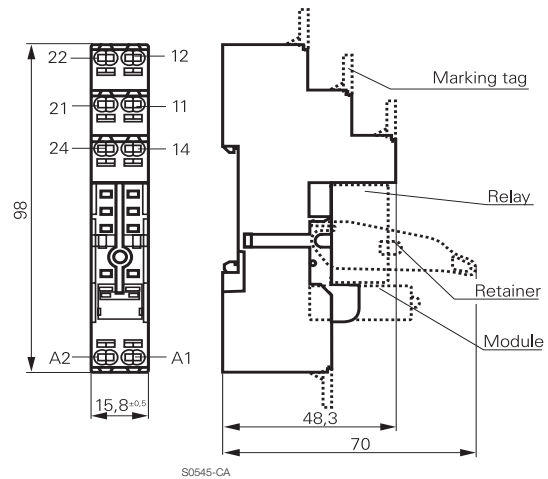
### Premium socket with screwless terminals for DIN rail mounting

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



### Approvals

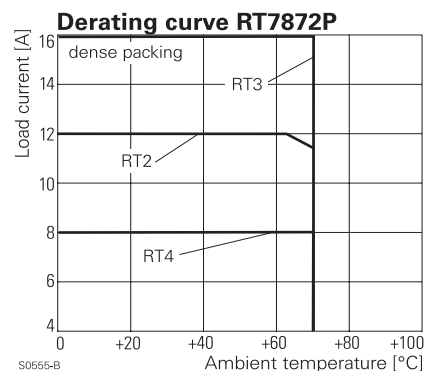
VDE Cert. No. 40007571, cULus E135149

### 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 <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                  |
| 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!



## 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><br>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><br>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><br>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             |

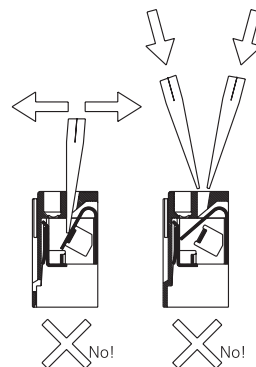
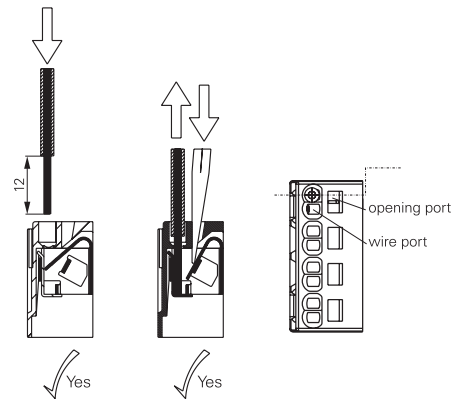
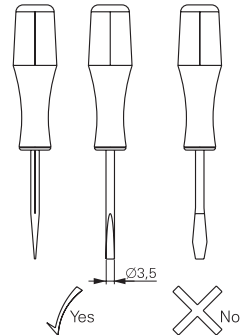
### Socket with screwless terminals for DIN rail mounting

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

### Accessories for RT 78 72P

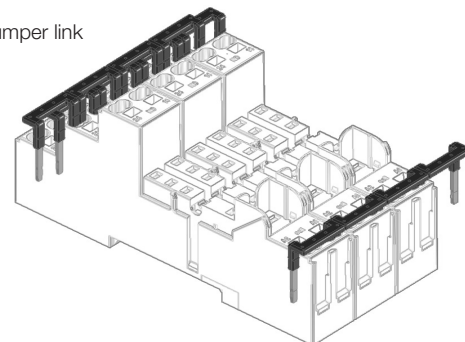
| Type                                                          | Part Number |
|---------------------------------------------------------------|-------------|
| <b>RT 17 017</b> Plastic retaining clip, relay height 15.7 mm | 2022103-1   |
| <b>RT 17 040</b> Marking tag                                  | 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

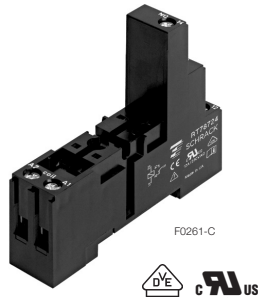
## Accessories Industrial Power Relay RT (Continued)

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

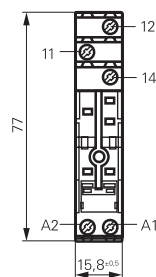
**RT 78 724** Socket with screw-type terminals, pinning 3.5 mm for DIN rail mounting

**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

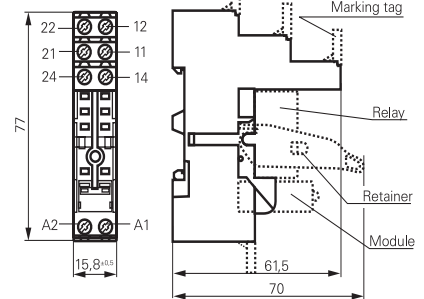


**RT 78 724**



S0416-CA

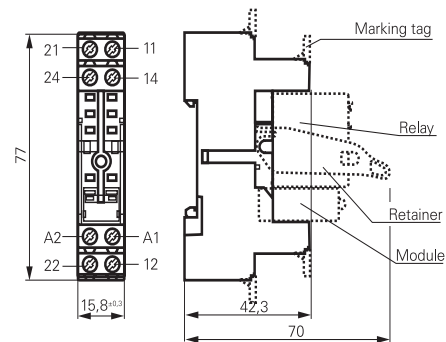
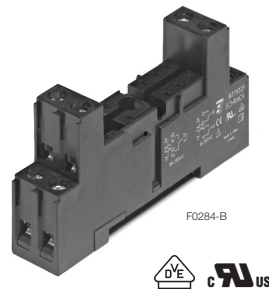
**RT 78 726**



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

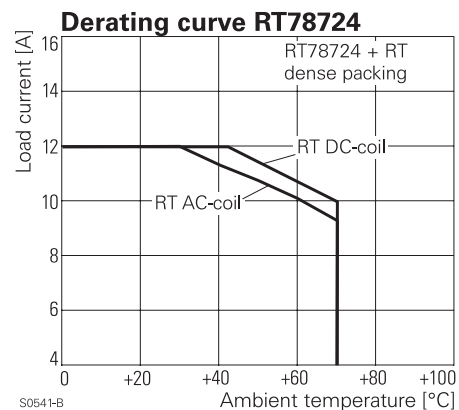
### Approvals

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/customersupport/rohssupportcenter">www.te.com/customersupport/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             |  | -20...+70°C             |         |
| for mounting/handling                 |  |                         |         |
| 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 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                  |         |

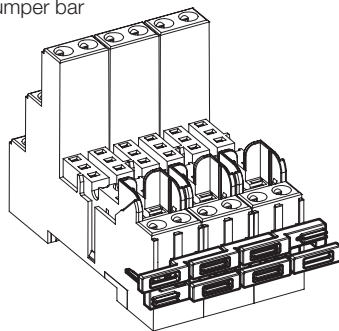
**Socket with screw-type terminals for DIN rail mounting**

| 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   |

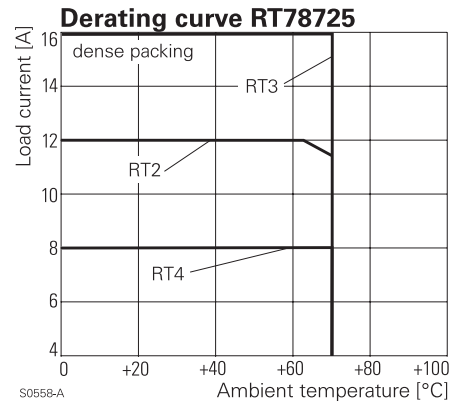
**Accessories for RT 78 724, RT 78 725, RT 78 726**

| 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   |

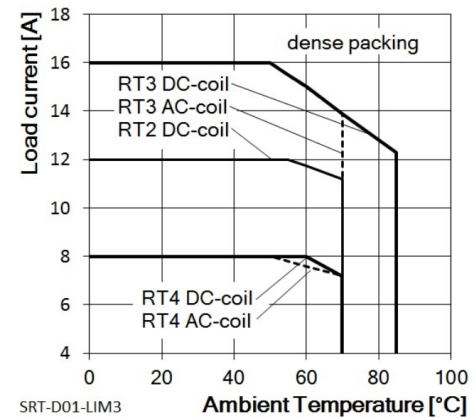
Jumper bar



S0559-AR

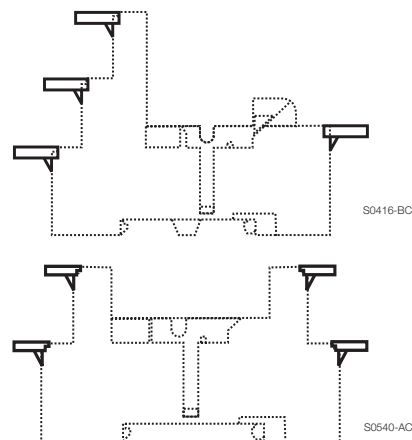


**Derating curve RT78726**



**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 |

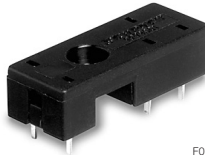
### Relay Packages

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

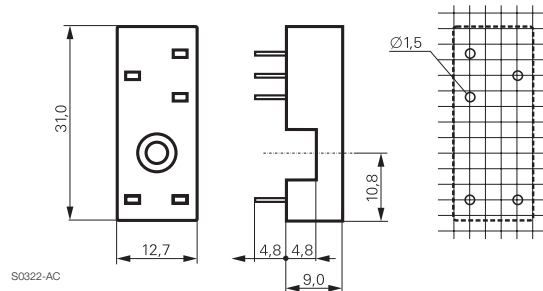
## Accessories Industrial Power Relay RT (Continued)

### Sockets for PCB mount

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

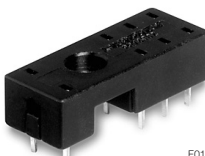


F0116-A

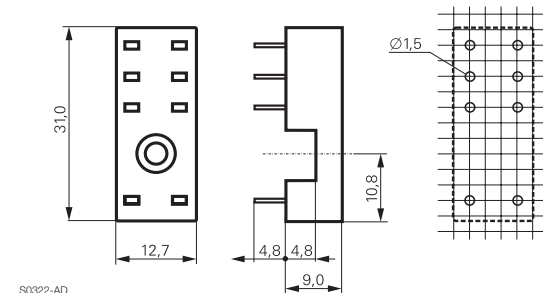


S0322-AC

**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

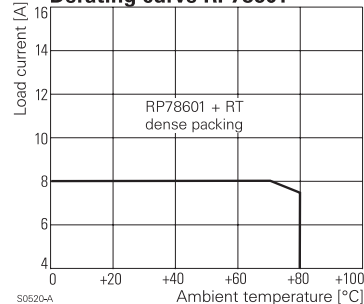
|                                         |                       |
|-----------------------------------------|-----------------------|
| Rated voltage/max. switching voltage AC | 240/400 VAC           |
| Rated current                           | 12 A*)                |
| Limiting continuous current             | 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            |

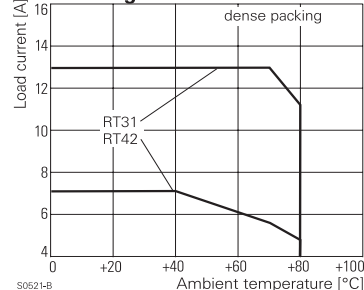
\*) For 1 pole relays (16 A) the relay terminals 11-21, 12-22 and 14-24 have to be bridged on the PCB.

### 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   |