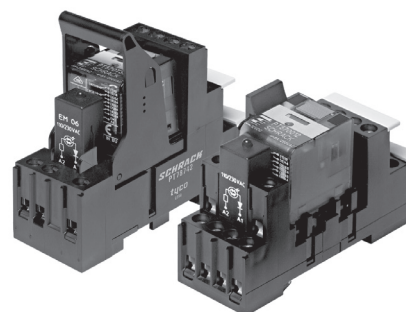


## Relay Package PT

- Relay package consisting of PT relay, DIN-rail socket, plastic retaining clip, module and marking tag
- 2 pole 12 A, 3 pole 10 A or 4 pole 6 A
- DC- or AC coil
- Mechanical and electrical indicator
- Manual test tab, optionally lockable



F0274-D

### Approvals

Relay: VDE Cert. No. 40009108, cULus E214025, Lloyds 00/20059

Socket: VDE Cert. No. 40009108, cULus E135149

Technical data of approved types on request



| Contact data                 | PT2                              | PT3        | PT5        |
|------------------------------|----------------------------------|------------|------------|
| Contact configuration        | 2 CO                             | 3 CO       | 4 CO       |
| Contact set                  | single contact                   |            |            |
| Type of interruption         | micro disconnection              |            |            |
| Rated voltage/               |                                  |            |            |
| max. switching voltage AC    | 240/400VAC                       | 240/400VAC | 240/240VAC |
| Rated current                | 12 A                             | 10 A       | 6 A        |
| Limiting continuous current  | see derating curve               |            |            |
| Maximum breaking capacity AC | 3000 VA                          | 2500 VA    | 1500 VA    |
| Limiting breaking capacity,  |                                  |            |            |
| max. 20 ms                   | 24 A                             | 20 A       | 12 A       |
| Contact material             | AgNi90/10, AgNi90/10 gold plated |            |            |
| Minimum contact load         | 12V/10mA, 20mV/1mA gold plated   |            |            |
| Rated frequency of operation |                                  |            |            |
| with/without load            | 6 / 600 min <sup>-1</sup>        |            |            |

### Contact ratings

For contact ratings see datasheet Miniature Relay PT

### Coil data

|                          |             |
|--------------------------|-------------|
| Rated coil voltage range |             |
| DC coil                  | 6...220 VDC |
| AC coil                  | 6...230 VAC |

Operative range, IEC 61810

|                        |                            |
|------------------------|----------------------------|
| DC coil, AC coil 50 Hz | 2                          |
| AC coil 60 Hz at 70°C  | 90...110% of rated voltage |

### Coil versions, DC coil

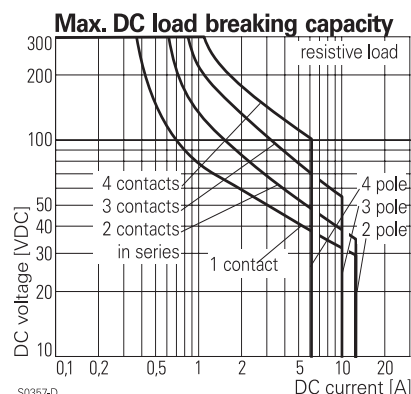
| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance $\Omega \pm 10\%$ | Rated coil power mW |
|-----------|-------------------|---------------------|---------------------|-----------------------------------|---------------------|
| LED+PD*)  |                   |                     |                     |                                   |                     |
| LB2       | 12                | 9.0                 | 1.2                 | 192                               | 750                 |
| LC4       | 24                | 18.0                | 2.4                 | 777                               | 741                 |

\*) Protection diode PD

### Coil versions, AC coil 50/60 Hz

| Coil code | Rated voltage VAC | Operate voltage 50/60 Hz VAC | Release voltage 50/60 Hz VAC | Coil resistance $\Omega$ | Rated coil power 50/60 Hz VA |
|-----------|-------------------|------------------------------|------------------------------|--------------------------|------------------------------|
| LED       |                   |                              |                              |                          |                              |
| RC4       | 24                | 19.2/21.6                    | 7.2                          | 192 $\pm 10\%$           | 1.0/0.79                     |
| SB5       | 115               | 92.0/103.5                   | 34.5                         | 4845 $\pm 12\%$          | 1.0/0.86                     |
| TDO       | 230               | 184.0/207.0                  | 69.0                         | 19465 $\pm 15\%$         | 1.0/0.90                     |

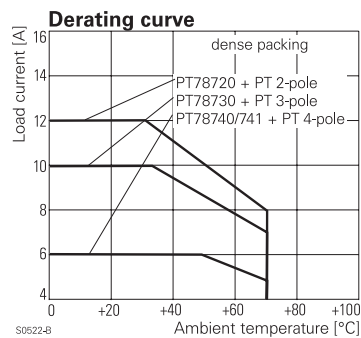
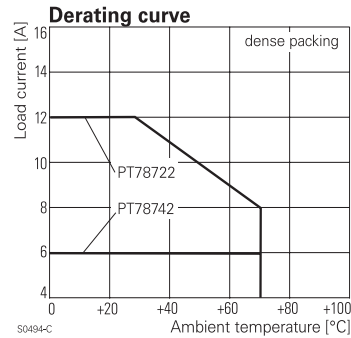
All figures are given for coil without preenergization, at ambient temperature +23°C.  
Other coil voltages on request.



| Insulation                         | PT2                   | PT3                   | PT5                   |
|------------------------------------|-----------------------|-----------------------|-----------------------|
| Dielectric strength                |                       |                       |                       |
| coil-contact circuit               | 2500 V <sub>rms</sub> | 2500 V <sub>rms</sub> | 2500 V <sub>rms</sub> |
| open contact circuit               | 1200 V <sub>rms</sub> | 1200 V <sub>rms</sub> | 1200 V <sub>rms</sub> |
| adjacent contact circuits          | 2500 V <sub>rms</sub> | 2500 V <sub>rms</sub> | 2000 V <sub>rms</sub> |
| Clearance / creepage               |                       |                       |                       |
| coil-contact circuit               | $\geq 4/4$ mm         | $\geq 4/4$ mm         | $\geq 4/4$ mm         |
| adjacent contact circuits          | $\geq 3.5/9.5$ mm     | $\geq 2.6/3.5$ mm     | $\geq 1.8/3.5$ mm     |
| Material group of insulation parts | IIIa                  |                       |                       |
| Insulation to IEC 60664-1          |                       |                       |                       |
| Type of insulation                 |                       |                       |                       |
| coil-contact circuit               |                       | basic                 |                       |
| open contact circuit               |                       | micro disconnection   |                       |
| adjacent cont. circuits            |                       | basic                 |                       |
| Rated insulation voltage           |                       | 250 V                 |                       |
| Pollution degree                   | 2                     | 2                     | 2                     |
| Rated voltage system               | 230/400 V             | 240 V                 | 240 V                 |
| Overvoltage category               | III                   | III                   | III                   |

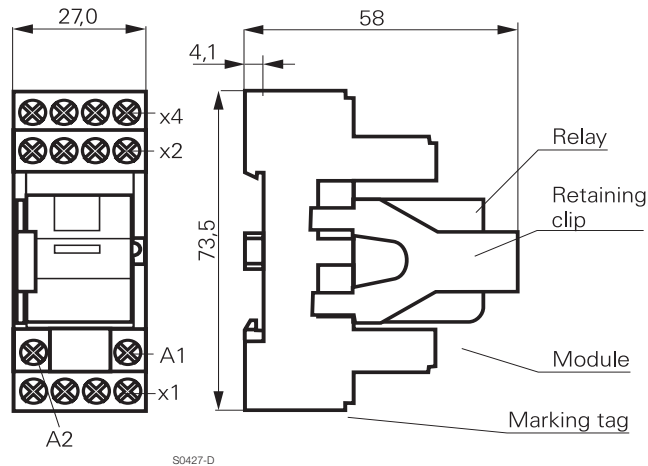
## Relay Package PT (Continued)

| Other data                                                                                                                                                                                                                              | PT2  | PT3                              | PT5  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------|------|
| Mechanical endurance                                                                                                                                                                                                                    |      |                                  |      |
| DC coil                                                                                                                                                                                                                                 |      | 30 x 10 <sup>6</sup> cycles      |      |
| AC coil                                                                                                                                                                                                                                 |      | 20 x 10 <sup>6</sup> cycles      |      |
| 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> |      |                                  |      |
| Ambient temperature range                                                                                                                                                                                                               |      |                                  |      |
| for mounting/handling                                                                                                                                                                                                                   |      | -25...+70°C                      |      |
| in operation                                                                                                                                                                                                                            |      | -40...+70°C                      |      |
| Processing                                                                                                                                                                                                                              |      |                                  |      |
| 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 <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 mm, dense packing of sockets |      |
| Weight                                                                                                                                                                                                                                  |      |                                  |      |
| with PT78720/PT78730/PT78740                                                                                                                                                                                                            | 71 g | 78 g                             | 85 g |
| with PT78722/PT78742                                                                                                                                                                                                                    | 74 g | -                                | 90 g |
| Packaging unit                                                                                                                                                                                                                          |      | 5 pcs                            |      |

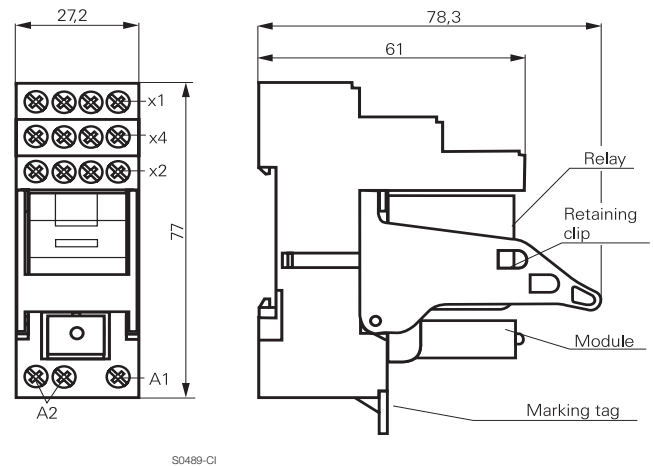


## Dimensions

Package with PT78 720 / PT78 730 / PT78 740



Package with PT78 722 / PT78 742



## Relay Package PT (Continued)

### Product code structure

Typical product code

**PT**

**5L**

**8**

**LC4**

#### Type

**PT** Relay Package PT

#### Version

**2S** Relay set: PT 2-pole CO contacts (2 form C), red LED

**3S** Relay set: PT 3-pole CO contacts (3 form C), red LED

**5S** Relay set: PT 4-pole CO contacts (4 form C), red LED

**2L** Relay set: PT 2-pole CO contacts (2 form C), red LED, with logical arrangement of control / load terminals

**5L** Relay set: PT 4-pole CO contacts (4 form C), red LED, with logical arrangement of control / load terminals

#### Contact material

**7** AgNi 90/10, with test button

**8** AgNi 90/10 gold plated, with test button

#### Coil

**LB2** 12 VDC

**RC4** 24 VAC

**TD0** 230 VAC

**LC4** 24 VDC

**SB5** 115 VAC

Other types on request

| Product code | Socket  | Retainer | Marking tag | Module   | Relay    | Coil   | Part Number |
|--------------|---------|----------|-------------|----------|----------|--------|-------------|
| PT2S7LB2     | PT78720 | PT17016  | PT17040     | PTML0024 | PT270012 | 12VDC  | 7-1415074-1 |
| PT2S7LC4     |         |          |             |          | PT270024 | 24VDC  | 8-1415074-1 |
| PT2S7RC4     |         |          |             | PTMV0524 | PT270R24 | 24VAC  | 5-1418074-1 |
| PT2S7SB5     |         |          |             | PTMV0615 | PT270S15 | 115VAC | 2-1415366-1 |
| PT2S7TD0     |         |          |             | PTMV0730 | PT270T30 | 230VAC | 6-1415074-1 |
| PT3S7LB2     | PT78730 |          |             | PTML0024 | PT370012 | 12VDC  | 1-1415075-1 |
| PT3S7LC4     |         |          |             |          | PT370024 | 24VDC  | 2-1415075-1 |
| PT3S7RC4     |         |          |             | PTMV0524 | PT370R24 | 24VAC  | 9-1415074-1 |
| PT3S7SB5     |         |          |             | PTMV0615 | PT370S15 | 115VAC | 1-1415366-1 |
| PT3S7TD0     |         |          |             | PTMV0730 | PT370T30 | 230VAC | 1415075-1   |
| PT5S7LB2     | PT78740 |          |             | PTML0024 | PT570012 | 12VDC  | 9-1415075-1 |
| PT5S7LC4     |         |          |             |          | PT570024 | 24VDC  | 1415076-1   |
| PT5S7RC4     |         |          |             | PTMV0524 | PT570R24 | 24VAC  | 7-1415075-1 |
| PT5S7SB5     |         |          |             | PTMV0615 | PT570S15 | 115VAC | 1415366-1   |
| PT5S7TD0     |         |          |             | PTMV0730 | PT570T30 | 230VAC | 8-1415075-1 |
| PT5S8LB2     |         |          |             | PTML0024 | PT580012 | 12VDC  | 5-1415075-1 |
| PT5S8LC4     |         |          |             |          | PT580024 | 24VDC  | 6-1415075-1 |
| PT5S8RC4     |         |          |             | PTMV0524 | PT580R24 | 24VAC  | 3-1415075-1 |
| PT5S8TD0     |         |          |             | PTMV0730 | PT580T30 | 230VAC | 4-1415075-1 |
| PT2L7LB2     | PT78722 | PT17021  |             | PTML0024 | PT270012 | 12VDC  | 8-1415534-7 |
| PT2L7LC4     |         |          |             |          | PT270024 | 24VDC  | 8-1415534-9 |
| PT2L7RC4     |         |          |             | PTMV0524 | PT270R24 | 24VAC  | 9-1415534-0 |
| PT2L7SB5     |         |          |             | PTMV0615 | PT270S15 | 115VAC | 9-1415534-2 |
| PT2L7TD0     |         |          |             | PTMV0730 | PT270T30 | 230VAC | 9-1415534-4 |
| PT5L7LB2     | PT78742 |          |             | PTML0024 | PT570012 | 12VDC  | 1415535-7   |
| PT5L7LC4     |         |          |             |          | PT570024 | 24VDC  | 1415535-9   |
| PT5L7RC4     |         |          |             | PTMV0524 | PT570R24 | 24VAC  | 1-1415535-1 |
| PT5L7SB5     |         |          |             | PTMV0615 | PT570S15 | 115VAC | 1-1415535-3 |
| PT5L7TD0     |         |          |             | PTMV0730 | PT570T30 | 230VAC | 1-1415535-5 |
| PT5L8LB2     |         |          |             | PTML0024 | PT580012 | 12VDC  | 1-1415535-7 |
| PT5L8LC4     |         |          |             |          | PT580024 | 24VDC  | 1-1415535-8 |
| PT5L8RC4     |         |          |             | PTMV0524 | PT580R24 | 24VAC  | 1-1415535-9 |
| PT5L8TD0     |         |          |             | PTMV0730 | PT580T30 | 230VAC | 2-1415535-0 |

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