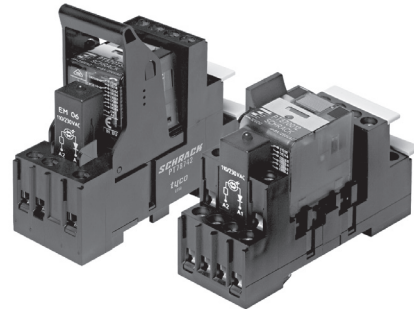


**Relay Package PT**

- 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**

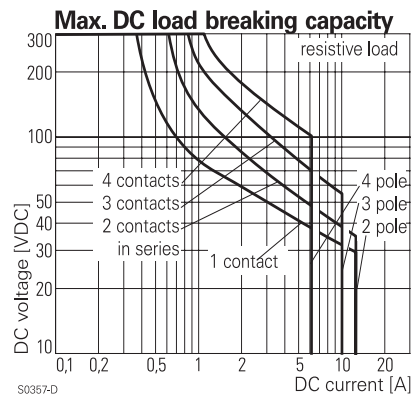
| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ω±10% | Rated coil power mW |
|-----------|-------------------|---------------------|---------------------|-----------------------|---------------------|
| LB2       | 12                | 9.0                 | 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 VAC | Release voltage VAC | Coil resistance Ω | Rated coil power VA |
|-----------|-------------------|---------------------|---------------------|-------------------|---------------------|
| RC4       | 24                | 19.2/21.6           | 7.2                 | 192±10%           | 1.0/0.79            |
| SB5       | 115               | 92.0/103.5          | 34.5                | 4845±12%          | 1.0/0.86            |
| TDO       | 230               | 184.0/207.0         | 69.0                | 19465±15%         | 1.0/0.90            |

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



S0357-D

| Insulation                                | PT2                   | PT3                   | PT5                   |
|---|-----------------------|-----------------------|-----------------------|
| <b>Dielectric strength</b>                |                       |                       |                       |
| 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> |
| <b>Clearance / creepage</b>               |                       |                       |                       |
| coil-contact circuit                      | ≥ 4/4 mm              | ≥ 4/4 mm              | ≥ 4/4 mm              |
| adjacent contact circuits                 | ≥3.5/9.5 mm           | ≥2.6/3.5 mm           | ≥1.8/3.5 mm           |
| <b>Material group of insulation parts</b> | IIIa                  |                       |                       |
| <b>Insulation to IEC 60664-1</b>          |                       |                       |                       |
| 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 max.   |      | 0.5 Nm                           | 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)

|   |  |                      |  |           |          |            |
|---|--|----------------------|--|-----------|----------|------------|
| <b>Product code structure</b>   |  | Typical product code | <b>PT</b>                                  | <b>5L</b> | <b>8</b> | <b>LC4</b> |
| <b>Type</b>   |  |                      |  |           |          |            |
| PT Relay Package PT   |  |                      |  |           |          |            |
| <b>Version</b>  |  |                      |  |           |          |            |
| 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 |  |                      |  |           |          |            |
| <b>Contact material</b>   |  |                      |  |           |          |            |
| 7 AgNi 90/10, with test button  |  |                      | 8 AgNi 90/10 gold plated, with test button |           |          |            |
| <b>Coil</b>   |  |                      |  |           |          |            |
| LB2 12 VDC  |  | LC4 24 VDC           |  |           |          |            |
| RC4 24 VAC  |  | SB5 115 VAC          |  |           |          |            |
| TD0 230 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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