

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 ⁻¹ | | |

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

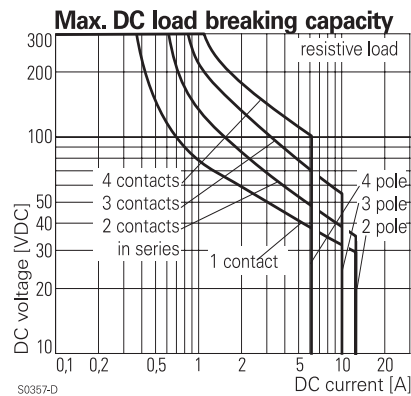
| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ω±10% | Rated coil power mW |
|-----------|-------------------|---------------------|---------------------|-----------------------|---------------------|
| LB2 | 12 | 9.0 | 1.2 | 192 | 750 |
| LC4 | 24 | 18.0 | 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.

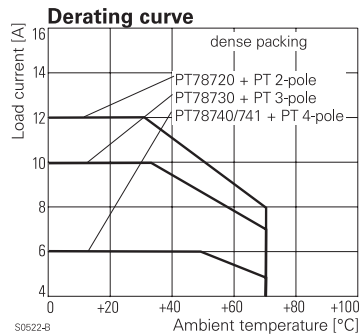
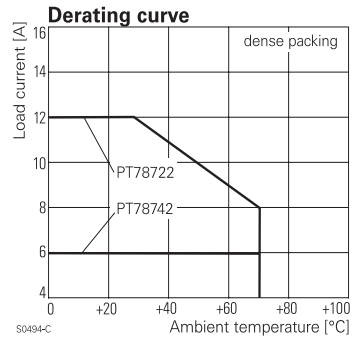


S0357-D

| Insulation | PT2 | PT3 | PT5 |
|---|-----------------------|-----------------------|-----------------------|
| Dielectric strength | | | |
| coil-contact circuit | 2500 V _{rms} | 2500 V _{rms} | 2500 V _{rms} |
| open contact circuit | 1200 V _{rms} | 1200 V _{rms} | 1200 V _{rms} |
| adjacent contact circuits | 2500 V _{rms} | 2500 V _{rms} | 2000 V _{rms} |
| Clearance / creepage | | | |
| 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 |
| 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 |

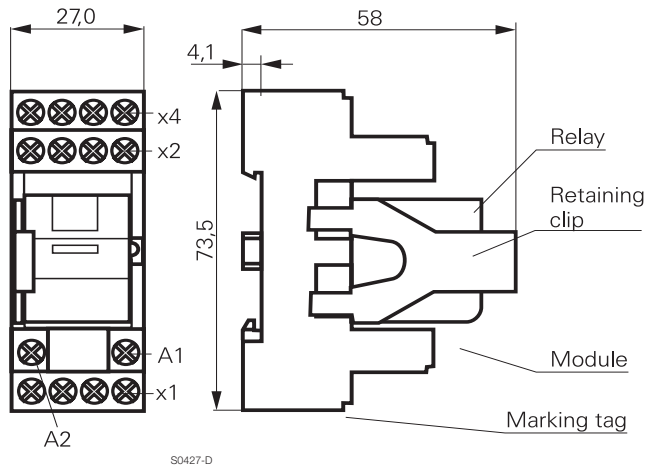
Relay Package PT (Continued)

| Other data | PT2 | PT3 | PT5 |
|---|----------------------------------|-----------------------------|------|
| Mechanical endurance | | | |
| DC coil | | 30 x 10 ⁶ cycles | |
| AC coil | | 20 x 10 ⁶ cycles | |
| Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customer-support/rohssupportcenter | | | |
| 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 ² | | |
| fine wire | 2 x 2.5 mm ² | | |
| with bootlace crimp (DIN 46228/1) | 2 x 1.5 mm ² | | |
| 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 | | |

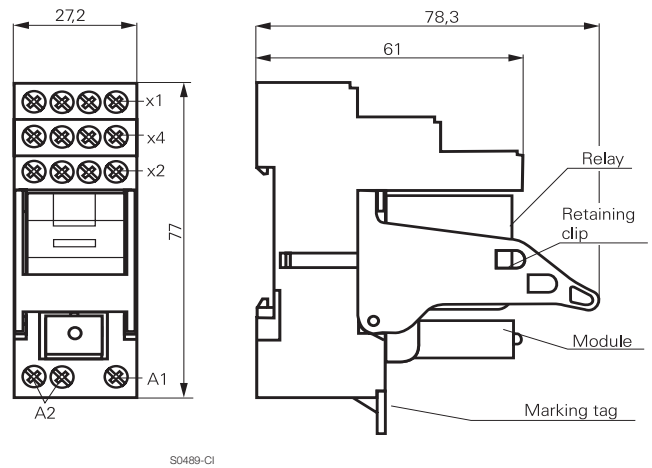


Dimensions

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 | | 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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