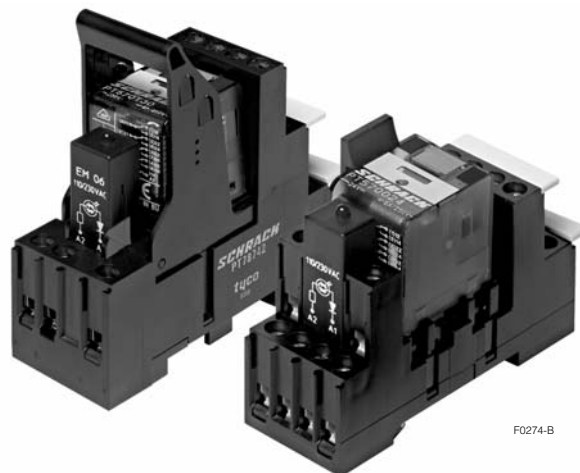


## Relay Package PT

- 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
- RoHS compliant (Directive 2002/95/EC) as per production date code 0535



F0274-B

### Approvals

Relay: REG.-Nr. 115719, E214025, 00/20059(E2)

Socket: REG.-Nr. 115719, 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 current                                    | 12 A                             | 10 A        | 6 A         |
| Limiting continuous current                      | see derating curve               |             |             |
| Rated voltage / max.switching voltage AC         | 240/400 VAC                      | 240/400 VAC | 240/240 VAC |
| Maximum breaking capacity AC                     | 3000 VA                          | 2500 VA     | 1500 VA     |
| Limiting making 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   |             |             |
| Mechanical endurance DC coil                     | 30x10 <sup>6</sup> cycles        |             |             |
| AC coil                                          | 20x10 <sup>6</sup> cycles        |             |             |
| 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 |
| Coil power DC coil                          | 0.75 mW     |
| AC coil                                     | 1.0 VA      |
| Operative range DC coil, AC-coil 50Hz       | 2           |
| AC coil 60 Hz at 70°C, % of U <sub>rd</sub> | 90...110%   |

### Coil versions, DC-coil

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

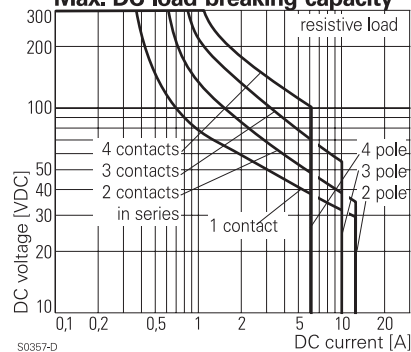
\*) Protection diode PD

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

| Coil code | Rated voltage | Operate voltage | Release voltage | Coil resistance | Rated coil power |
|-----------|---------------|-----------------|-----------------|-----------------|------------------|
| LED       | VAC           | 50/60Hz         | 50/60Hz         | Ohm             | 50/60Hz 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         |
| TD0       | 230           | 184.0/207.0     | 69.0            | 19465±15%       | 1.0/0.90         |

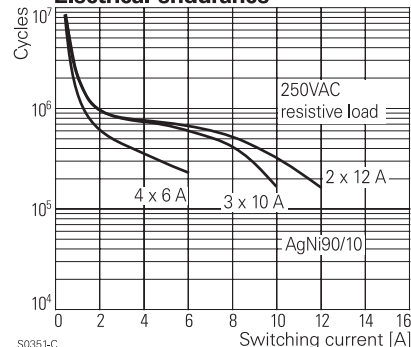
All figures are given for coil without preenergization, at ambient temperature +23°C  
Other coil voltages on request

### Max. DC load breaking capacity



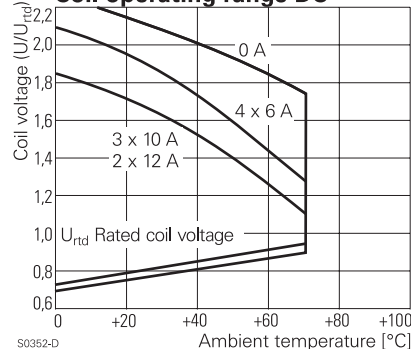
S0357-D

### Electrical endurance



S0351-C

### Coil operating range DC

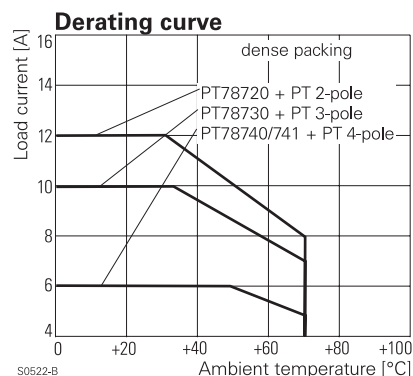
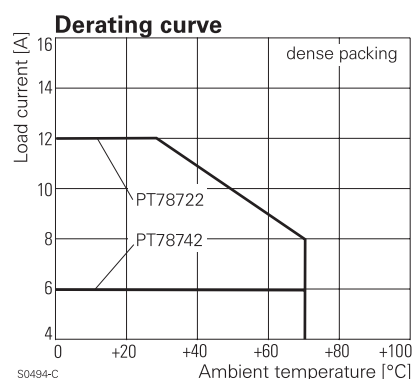
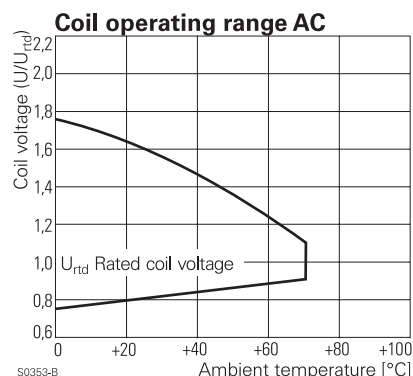


S0352-D

**Relay Package PT (Continued)**

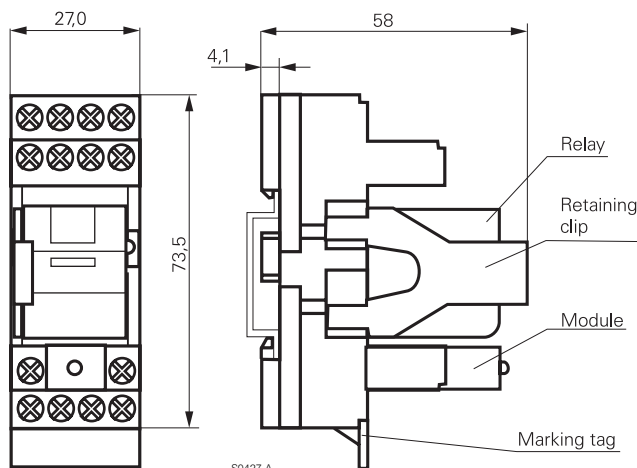
| Insulation                                | PT2                   | PT3                   | PT5                   |
|-------------------------------------------|-----------------------|-----------------------|-----------------------|
| Dielectric strength coil-contact circuit  | 2500 V <sub>rms</sub> | 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 | ≥ 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                      | functional            |                       |                       |
| adjacent contact circuits                 | basic                 |                       |                       |
| Rated insulation voltage                  | 250 V                 |                       |                       |
| Pollution degree                          | 2                     |                       |                       |
| Rated voltage system                      | 230/400 V             |                       |                       |
| Overvoltage category                      | III                   |                       |                       |

| Other data                                    | PT2                                     | PT3  | PT5  |
|-----------------------------------------------|-----------------------------------------|------|------|
| RoHS - Directive 2002/95/EC                   | compliant as per product date code 0535 |      |      |
| Ambient temperature range                     | -40...+70°C                             |      |      |
| Operate- / release time                       | 15/10 ms                                |      |      |
| Bounce time NO / NC contact                   | 5 ms                                    |      |      |
| Degree of protection DIN 40050                | IP20                                    |      |      |
| 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, dense packing                        |      |      |
| Weight with PT 78 720 / PT 78 730 / PT 78 740 | 71 g                                    | 78 g | 85 g |
| with PT 78 722 / PT 78 742                    | 74 g                                    | -    | 90 g |
| Packaging unit                                | 5 pcs                                   |      |      |

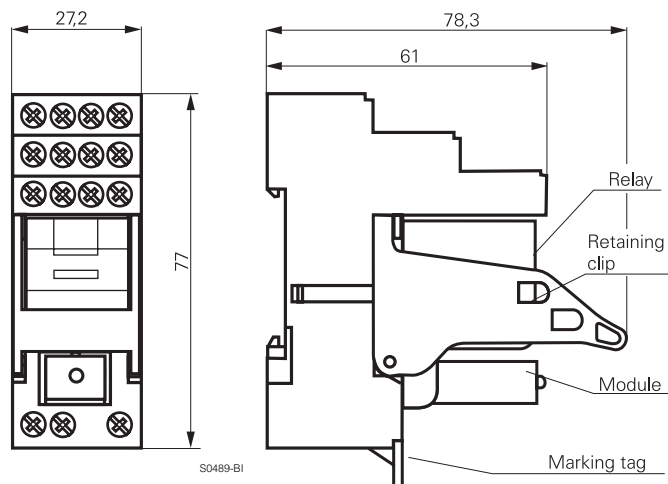


**Dimensions**

Package with PT 78 720 / PT 78 730 / PT 78 740



Package with PT 78 722 / PT 78 742



**Relay Package PT (Continued)**

**Product key**

|   |   |  |  |  |  |
|---|---|--|--|--|--|
| P | T |  |  |  |  |
|---|---|--|--|--|--|

Type

Version

- 2S** Relay set: PT 2-pole CO contacts, red LED
- 3S** Relay set: PT 3-pole CO contacts, red LED
- 5S** Relay set: PT 4-pole CO contacts, red LED
- 2L** Relay set: PT 2-pole CO contacts, red LED, with logical arrangement of control / load terminals
- 5L** Relay set: PT 4-pole CO contacts, 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 key | Socket  | Retainer | Marking tag | Module   | Relay    | Coil    | Part number |
|-------------|---------|----------|-------------|----------|----------|---------|-------------|
| PT2S7LB2    | PT78720 | PT17016  | PT17040     | PTML0024 | PT270012 | 12 VDC  | 7-1415074-1 |
| PT2S7LC4    |         |          |             |          | PT270024 | 24 VDC  | 8-1415074-1 |
| PT2S7RC4    |         |          |             | PTMV0524 | PT270R24 | 24 VAC  | 5-1415074-1 |
| PT2S7SB5    |         |          |             | PTMV0615 | PT270S15 | 115 VAC | 2-1415366-1 |
| PT2S7TD0    |         |          |             | PTMV0730 | PT270T30 | 230 VAC | 6-1415074-1 |
| PT3S7LB2    | PT78730 |          |             | PTML0024 | PT370012 | 12 VDC  | 1-1415075-1 |
| PT3S7LC4    |         |          |             |          | PT370024 | 24 VDC  | 2-1415075-1 |
| PT3S7RC4    |         |          |             | PTMV0524 | PT370R24 | 24 VAC  | 9-1415074-1 |
| PT3S7SB5    |         |          |             | PTMV0615 | PT370S15 | 115 VAC | 1-1415366-1 |
| PT3S7TD0    |         |          |             | PTMV0730 | PT370T30 | 230 VAC | 0-1415075-1 |
| PT5S7LB2    | PT78740 |          |             | PTML0024 | PT570012 | 12 VDC  | 9-1415075-1 |
| PT5S7LC4    |         |          |             |          | PT570024 | 24 VDC  | 0-1415076-1 |
| PT5S7RC4    |         |          |             | PTMV0524 | PT570R24 | 24 VAC  | 7-1415075-1 |
| PT5S7SB5    |         |          |             | PTMV0615 | PT570S15 | 115 VAC | 0-1415366-1 |
| PT5S7TD0    |         |          |             | PTMV0730 | PT570T30 | 230 VAC | 8-1415075-1 |
| PT5S8LB2    |         |          |             | PTML0024 | PT580012 | 12 VDC  | 5-1415075-1 |
| PT5S8LC4    |         |          |             |          | PT580024 | 24 VDC  | 6-1415075-1 |
| PT5S8RC4    |         |          |             | PTMV0524 | PT580R24 | 24 VAC  | 3-1415075-1 |
| PT5S8TD0    |         |          |             | PTMV0730 | PT580T30 | 230 VAC | 4-1415075-1 |
| PT2L7LB2    | PT78722 | PT17021  |             | PTML0024 | PT270012 | 12 VDC  | 8-1415534-7 |
| PT2L7LC4    |         |          |             |          | PT270024 | 24 VDC  | 8-1415534-9 |
| PT2L7RC4    |         |          |             | PTMV0524 | PT270R24 | 24 VAC  | 9-1415534-0 |
| PT2L7SB5    |         |          |             | PTMV0615 | PT270S15 | 115 VAC | 9-1415534-2 |
| PT2L7TD0    |         |          |             | PTMV0730 | PT270T30 | 230 VAC | 9-1415534-4 |
| PT5L7LB2    | PT78742 |          |             | PTML0024 | PT570012 | 12 VDC  | 0-1415535-7 |
| PT5L7LC4    |         |          |             |          | PT570024 | 24 VDC  | 0-1415535-9 |
| PT5L7RC4    |         |          |             | PTMV0524 | PT570R24 | 24 VAC  | 1-1415535-1 |
| PT5L7SB5    |         |          |             | PTMV0615 | PT570S15 | 115 VAC | 1-1415535-3 |
| PT5L7TD0    |         |          |             | PTMV0730 | PT570T30 | 230 VAC | 1-1415535-5 |
| PT5L8LB2    |         |          |             | PTML0024 | PT580012 | 12 VDC  | 1-1415535-7 |
| PT5L8LC4    |         |          |             |          | PT580024 | 24 VDC  | 1-1415535-8 |
| PT5L8RC4    |         |          |             | PTMV0524 | PT580R24 | 24 VAC  | 1-1415535-9 |
| PT5L8TD0    |         |          |             | PTMV0730 | PT580T30 | 230 VAC | 2-1415535-0 |



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