

## Relay Package RT

- Relay package consisting of RT relay, DIN-rail socket, plastic retaining clip, module and marking tag
- 1 CO with 16 A or 2 CO with 8 A rated load
- Sensitive DC- or AC coil
- Reinforced insulation (protection class II / VDE 0700), safe separation to VDE 0160
- RoHS compliant (Directive 2002/95/EC) as per production date code 0535



F0287-A

### Approvals

Relay: REG.-Nr. 6106, E214025

Socket: REG.-Nr. 6106 in preparation, E135149  
Technical data of approved types on request

| Contact data                                     | 1-pole                            | 2-pole                |
|--------------------------------------------------|-----------------------------------|-----------------------|
| Contact configuration                            | 1 CO                              | 2 CO                  |
| Contact set                                      | single contact                    |                       |
| Type of interruption                             | micro disconnection               |                       |
| Rated current                                    | 16 A *)                           | 8 A                   |
| Rated voltage / max.switching voltage AC         | 240/400 VAC                       |                       |
| Maximum breaking capacity AC                     | 4000 VA                           | 2000 VA               |
| Limiting making capacity,max 4 s, df 10%         | 30 A                              | 15 A                  |
| Contact material                                 | AgNi 90/10, AgNi90/10 gold plated |                       |
| Mechanical endurance DC coil                     | > 30 x 10 <sup>6</sup>            | >30 x 10 <sup>6</sup> |
| AC coil                                          | > 10 x 10 <sup>6</sup>            | >5 x 10 <sup>6</sup>  |
| Rated frequency of operation with / without load | 6 / 1200 min <sup>-1</sup>        |                       |

\*) For full load current (16 A) the relay terminals 11-21, 12-22 and 14-24 have to be bridged.

### Contact ratings

For contact ratings see datasheet Interface Power relay RT

### Coil data

|                                  |             |
|----------------------------------|-------------|
| Rated coil voltage range DC coil | 24 VDC      |
| AC coil                          | 24, 230 VAC |
| Coil power DC coil               | typ 400 mW  |
| AC coil                          | typ 0.75 VA |
| Operative range                  | 2           |

### Coil versions, DC-coil

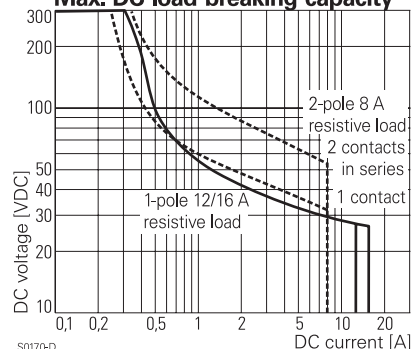
| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ohm | Rated coil power mW |
|-----------|-------------------|---------------------|---------------------|---------------------|---------------------|
| LC4       | 24                | 16.8                | 2.4                 | 1440 ± 10%          | 400                 |

### Coil versions, AC-coil 50Hz

| Coil code | Rated voltage VAC | Operate voltage 50 Hz VAC | Release voltage 50 Hz VAC | Coil resistance Ohm | Rated coil power 50 Hz VA |
|-----------|-------------------|---------------------------|---------------------------|---------------------|---------------------------|
| R24       | 24                | 18.0                      | 3.6                       | 350 ± 10%           | 0.76                      |
| S15       | 115               | 86.3                      | 17.3                      | 8100 ± 15%          | 0.76                      |
| T30       | 230               | 172.5                     | 34.5                      | 32500 ± 15%         | 0.74                      |

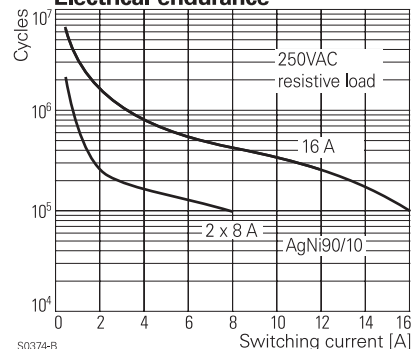
All figures are given for coil without preenergization, at ambient temperature +23°C  
Other coil voltages on request

### Max. DC load breaking capacity



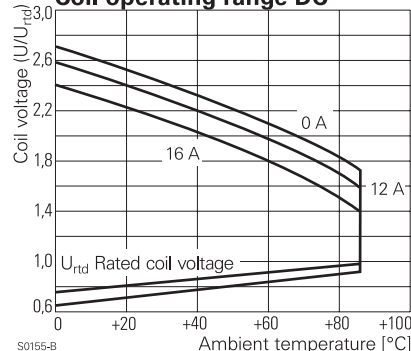
S0170-D

### Electrical endurance



S0374-B

### Coil operating range DC



S0155-B

**Relay Package RT (Continued)**

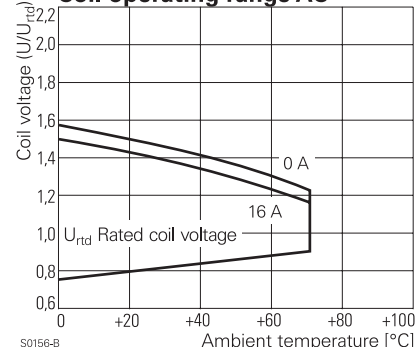
**Insulation**

|                                           |                       |
|-------------------------------------------|-----------------------|
| 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                |
| Tracking index of relay base              | PTI 250 V             |
| 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                   |

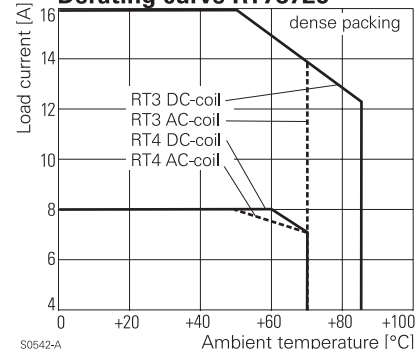
**Other data**

|                                      | 1-pole                                  | 2-pole       |
|--------------------------------------|-----------------------------------------|--------------|
| RoHS - Directive 2002/95/EC          | compliant as per product date code 0535 |              |
| Ambient temperature range DC coil    | -20...+85°C                             |              |
| AC coil                              | -20...+70°C                             |              |
| Operate- / release time DC coil      | typ 7 / 3 ms                            | typ 7 / 2 ms |
| Bounce time DC coil, NO / NC contact | typ 1 / 3 ms                            | typ 1 / 3 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                               | 54 g                                    |              |
| Packaging unit                       | 10 pcs                                  |              |

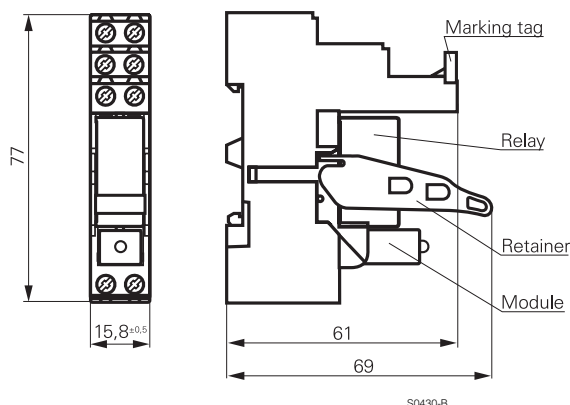
**Coil operating range AC**



**Derating curve RT78726**



**Dimensions**



**Relay Package RT (Continued)**

**Product key**

|          |          |          |  |  |  |
|----------|----------|----------|--|--|--|
| <b>R</b> | <b>T</b> | <b>S</b> |  |  |  |
|----------|----------|----------|--|--|--|

Type

Version

**3S** Relay set: RT 1-pole CO, 16 A, red LED

**4S** Relay set: RT 2-pole CO, 8 A, red LED

Contact material

**4** AgNi 90/10, CO contact

**5** AgNi 90/10 gold plated, CO contact

Coil

**LC4** 24 VDC

**S15** 115 VAC

**R24** 24 VAC

**T30** 230 VAC

Other types on request

| Product key | Socket  | Retainer | Marking tag | Module   | Relay    | Coil    | Part number |
|-------------|---------|----------|-------------|----------|----------|---------|-------------|
| RT3S4LC4    | RT78726 | RT17016  | RT17040     | PTML0024 | RT314024 | 24 VDC  | 4-1415073-1 |
| RT3S4R24    |         |          |             | PTML0524 | RT314524 | 24 VAC  | 5-1415073-1 |
| RT3S4S15    |         |          |             | PTML0730 | RT314615 | 115 VAC | 5-1415528-1 |
| RT3S4T30    |         |          |             | PTML0730 | RT314730 | 230 VAC | 6-1415073-1 |
| RT3S5LC4    |         |          |             | PTML0024 | RT315024 | 24 VDC  | 7-1415073-1 |
| RT3S5R24    |         |          |             | PTML0524 | RT315524 | 24 VAC  | 8-1415073-1 |
| RT3S5T30    |         |          |             | PTML0730 | RT315730 | 230 VAC | 9-1415073-1 |
| RT4S4LC4    |         |          |             | PTML0024 | RT424024 | 24 VDC  | 1-1415073-1 |
| RT4S4R24    |         |          |             | PTML0524 | RT424524 | 24 VAC  | 2-1415073-1 |
| RT4S4T30    |         |          |             | PTML0730 | RT424730 | 230 VAC | 3-1415073-1 |
| RT4S5LC4    |         |          |             | PTML0024 | RT425024 | 24 VDC  | 0-1415074-1 |
| RT4S5R24    |         |          |             | PTML0524 | RT425524 | 24 VAC  | 1-1415074-1 |
| RT4S5T30    |         |          |             | PTML0730 | RT425730 | 230 VAC | 2-1415074-1 |

For replacement use identical components according to table only!



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