

## Miniature PCB Relay RE

1 pole 6 A



### Features

- 1N/O contact
- Sensitive coil 200 mW
- 4 kV coil-contact
- Optimized height 10,6 mm
- PCB area 200 mm<sup>2</sup>
- Wash tight

### Applications

PLC's, timers, temperature control, I / O cards



Technical data of approved types on request

F0141-A

### Contact data

|   |                       |
|---|-----------------------|
| Configuration                             | 1 N/O contact         |
| Type of contact                           | single contact        |
| Rated current                             | 6 A                   |
| Rated voltage / max.breaking voltage AC   | 250 Vac / 440 Vac     |
| Maximum breaking capacity AC              | 1500 VA               |
| Make current (max. 4 s at duty cycle 10%) | 15 A                  |
| Contact material                          | AgCdO, Ag gold plated |

### Contact ratings

| Type   | Load                     | Operations        | Standard |
|--------|--------------------------|-------------------|----------|
| RE 030 | 2 A, 400 Vac, AC 11      | 2x10 <sup>5</sup> | VDE 0660 |
| RE 030 | 2 A, 250 Vac, AC 11      | 4x10 <sup>5</sup> | VDE 0660 |
| RE 030 | 0.33 A, 250 Vac, AC 11   | 5x10 <sup>6</sup> | VDE 0660 |
| RE 030 | 1/8hp, 120 Vac           | 3x10 <sup>4</sup> | UL 508   |
| RE 030 | 1/4hp, 240 Vac           | 3x10 <sup>4</sup> | UL 508   |
| RE 030 | B 300                    |                   | UL 508   |
| RE 030 | 6 A, 30 Vdc, resistive   | 5x10 <sup>5</sup> |          |
| RE 030 | 0.3 A, 50 Vdc, L/R=40 ms | 3x10 <sup>6</sup> |          |
| RE 030 | 6 (3) A, 250 Vac         | 1x10 <sup>5</sup> | VDE 0631 |

### Coil data

|                    |            |
|--------------------|------------|
| Nominal voltage    | 5...48 Vdc |
| Nominal coil power | 200 mW     |
| Operate category   | 2 / b      |

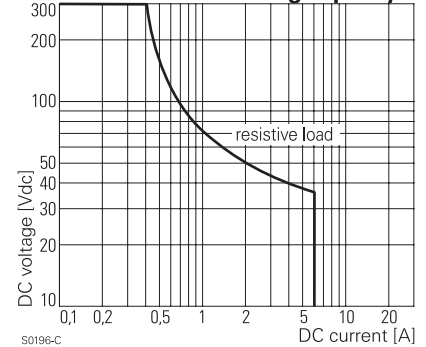
### Coil versions, DC-coil

| Coil code | Nominal voltage Vdc | Pull-in voltage Vdc | Release voltage Vdc | Maximum voltage Vdc | Coil resistance Ω | Coil current mA |
|-----------|---------------------|---------------------|---------------------|---------------------|-------------------|-----------------|
| 005       | 5                   | 3.5                 | 0.5                 | 13.5                | 125±10%           | 40.0            |
| 006       | 6                   | 4.2                 | 0.6                 | 16.2                | 180±10%           | 33.3            |
| 012       | 12                  | 8.4                 | 1.2                 | 32.4                | 720±10%           | 16.7            |
| 024       | 24                  | 16.8                | 2.4                 | 64.8                | 2880±15%          | 8.3             |
| 048       | 48                  | 33.6                | 4.8                 | 129.6               | 11520±15%         | 4.2             |

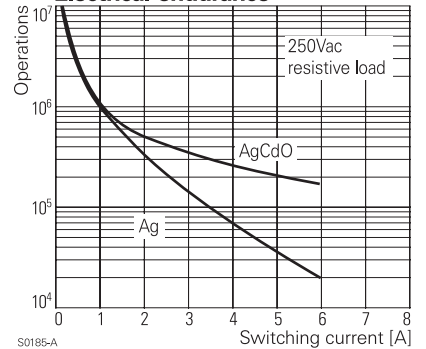
All figures are given for coil without preenergization, at ambient temperature +20 °C, single mounting

Other coil voltages on request

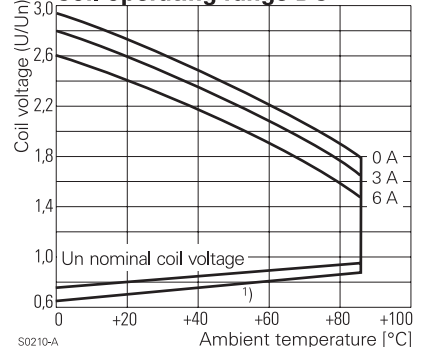
### Max. DC load breaking capacity



### Electrical endurance



### Coil operating range DC



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### Insulation

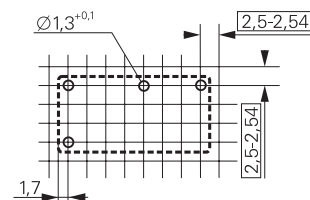
|                                |   |                       |
|--------------------------------|---|-----------------------|
| Dielectric strength            | coil-contacts                           | 4000 V <sub>rms</sub> |
|                                | open contact circuit                    | 1000 V <sub>rms</sub> |
| Clearance / creepage           |   | ≥ 4 / 4 mm            |
| Insulation to IEC 60664        |   |                       |
|                                | Voltage rating                          | 250 V                 |
|                                | Pollution degree                        | 3                     |
|                                | Overvoltage category                    | III                   |
| Insulation to VDE 0110b (2/79) |   |                       |
|                                | Insulation category / reference voltage | C / 250, B / 400      |

### Other data

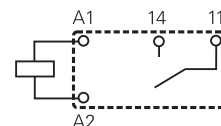
|  |  |      |
|--|--|------|
| Flammability class according to UL 94        | V-0  |      |
| Ambient temperature                          | -40...+70 °C, -40...+85 °C at 4 A            |      |
| Mechanical life                              | > 30x10 <sup>6</sup> operations              |      |
| Max. switching rate at rated- / minimum load | 6 min <sup>-1</sup> / 1200 min <sup>-1</sup> |      |
| Operate- / release time                      | typ. 5 / 1 ms                                |      |
| Bounce time                                  | typ. 1 ms                                    |      |
| Vibration resistance                         | open contact:                                | 10 g |
|  | closed contact:                              | 20 g |
| Shock resistance (destruction)               | 100 g  |      |
| Category of protection (IEC 61810)           | RT III - wash tight                          |      |
| Relay weight                                 | 5 g  |      |
| Packaging unit                               | 25 / 500 pcs.                                |      |

### PCB layout / terminal assignment

View on solder pins  
Dimensions in mm



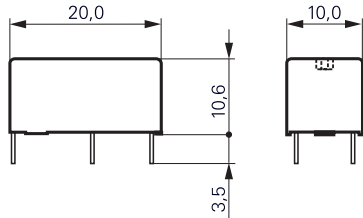
S0176-BH



S0176-BJ

### Dimensions

Dimensions in mm



S0271-AH

### Product key

Type

Version

**0** wash tight

Contacts

**3** 1 N/O contact

Contact material

**0** AgCdO

**2** Ag gold plated

Coil

Coil code: please refer to coil versions table

|          |          |          |          |  |  |  |
|----------|----------|----------|----------|--|--|--|
| <b>R</b> | <b>E</b> | <b>0</b> | <b>3</b> |  |  |  |
|----------|----------|----------|----------|--|--|--|

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