

Miniature PCB Relay RE

- 1 pole 6 A, 1NO contact
- Sensitive coil 200 mW
- 4 kV coil-contact
- Optimized height 10,6 mm
- PCB area 200 mm²
- Wash tight
- Plastic materials according to IEC60335-1 (domestic appliances)
- Versions with AgNi 0.15 and AgNi90/10 contact material:
RoHS compliant (Directive 2002/95/EC) as per
product date code 0352



FD141-A

Applications

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

Approvals

VDE REG.-Nr. 5063, **CE** US E214025
Technical data of approved types on request

Contact data

| | |
|--|---------------------------------------|
| Contact configuration | 1 NO |
| Contact set | single contact |
| Type of interruption | micro disconnection |
| Rated current | 6 A |
| Rated voltage / max.switching voltage AC | 240/400 VAC |
| Maximum breaking capacity AC | 1500 VA |
| Limiting making capacity, max 4 s, duty factor 10% | 15 A |
| Contact material | AgCdO |
| | AgNi0.15 and AgNi90/10 in preparation |
| Mechanical endurance | >30x10 ⁶ cycles |
| Rated frequency of operation with / without load | 6/1200 min ⁻¹ |

Contact ratings

| Type | Load | Cycles |
|-------|--|-------------------|
| RE030 | 6 A, 250 VAC, resistive, 70°C, 50% df, 6 min ⁻¹ , EN61810-1 | 1x10 ⁵ |
| RE030 | 1/4 hp, 240 VAC, UL508 | 3x10 ⁴ |
| RE030 | B 300, UL508 | |

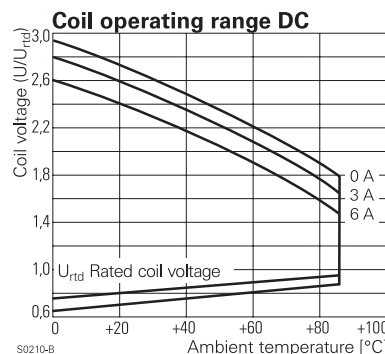
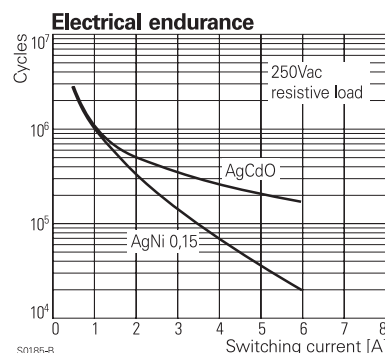
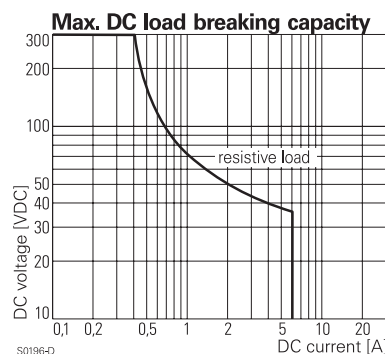
Coil data

| | |
|---|--------------|
| Rated coil voltage range DC coil | 5 ... 48 VDC |
| Coil power DC coil | typ. 200 mW |
| Operative range | 2 |
| Coil insulation system according UL1446 | F |

Coil versions, DC-coil

| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ohm | Rated coil power mW |
|-----------|-------------------|---------------------|---------------------|---------------------|---------------------|
| 005 | 5 | 3.5 | 0.5 | 125 ± 10% | 200 |
| 006 | 6 | 4.2 | 0.6 | 180 ± 10% | 200 |
| 012 | 12 | 8.4 | 1.2 | 720 ± 10% | 200 |
| 024 | 24 | 16.8 | 2.4 | 2880 ± 15% | 200 |
| 048 | 48 | 33.6 | 4.8 | 11520 ± 15% | 200 |

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



Miniature PCB Relay RE (Continued)

Insulation

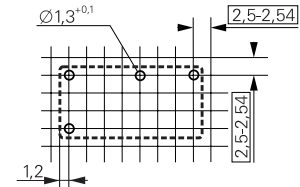
| | |
|---|-----------------------|
| Dielectric strength coil-contact circuit | 4000 V _{rms} |
| open contact circuit | 1000 V _{rms} |
| Clearance / creepage coil-contact circuit | ≥ 4/4 mm |
| Material group of insulation parts | IIIa |
| Tracking index of relay base | PTI 250 |
| Insulation to IEC 60664-1 | |
| Type of insulation coil-contact circuit | basic |
| open contact circuit | functional |
| Rated insulation voltage | 250 V |
| Pollution degree | 3 |
| Rated voltage system | 230/400 V |
| Overvoltage category | III |

Other data

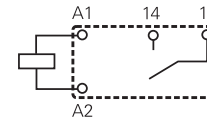
| | |
|---|----------------------|
| RoHS - Directive 2002/95/EC | |
| Versions with AgNi0.15 and AgNi90/10 contacts: compliant as per product date code 0352 | |
| Flammability class according to UL94 | V-0 |
| Ambient temperature range | -40 ... +70°C |
| | -40 ... +85°C at 4 A |
| Operate- / release time | 5/1 ms |
| Bounce time NO / NC contact | 1 ms |
| Category of protection | RTIII - wash-tight |
| Resistance to soldering heat wash-tight version | 260°C / 5 s |
| Relay weight | 5 g |
| Packaging unit | 25 pcs |

PCB layout / terminal assignment

Bottom view on solder pins

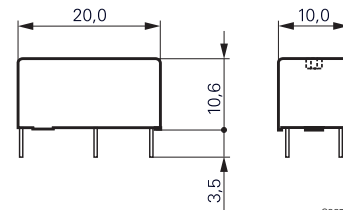


S0176-BH



S0176-BJ

Dimensions



S0271-AH

Product key

Type

Version

0 wash-tight

Contact configuration

3 1 NO contact

Contact material

1 AgNi 0.15

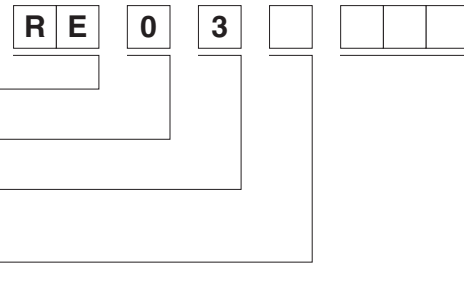
2 AgNi 0.15 gold plated

4 AgNi 90/10

0 AgCdO

Coil

Coil code: please refer to coil versions table



| Product key | Version | Contacts | Contact material | Coil | Part number |
|-------------|------------|--------------|------------------|--------|-------------|
| RE030005 | wash tight | 1 NO contact | AgCdO | 5 VDC | 0-1393217-1 |
| RE030006 | | | | 6 VDC | 0-1393217-2 |
| RE030012 | | | | 12 VDC | 0-1393217-4 |
| RE030024 | | | | 24 VDC | 0-1393217-8 |
| RE030048 | | | | 48 VDC | 1-1393217-1 |
| RE032005 | | | AgNi 0,15 | 5 VDC | 1-1393217-9 |
| RE032006 | | | gold plated | 6 VDC | 2-1393217-0 |
| RE032012 | | | | 12 VDC | 2-1393217-2 |
| RE032024 | | | | 24 VDC | 2-1393217-4 |
| RE032048 | | | | 48 VDC | 2-1393217-5 |
| RE034005 | | | AgNi 90/10 | 5 VDC | |
| RE034006 | | | | 6 VDC | |
| RE034012 | | | | 12 VDC | |
| RE034024 | | | | 24 VDC | |
| RE034048 | | | | 48 VDC | |