

Miniature PCB Relay RE

- 1 pole 6 A, 1 form A (NO) contact
- Sensitive coil 200 mW
- 4 kV coil-contact
- Optimized height 10.6mm
- PCB area 200mm²
- Wash tight
- Product in accordance to IEC 60335-1 (domestic appliances)



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



Approvals

VDE Cert. No. 40010578, UL E214025
Technical data of approved types on request.

Contact Data

| | |
|--------------------------------------------------|------------------------------|
| Contact arrangement | 1 form A (NO) |
| Rated voltage | 250VAC |
| Max. switching voltage | 400VAC |
| Rated current | 6A |
| Limiting making current, max 4s, duty factor 10% | 15A |
| Breaking capacity max. | 1500VA |
| Contact material | AgCdO, AgNi 0.15, AgNi 90/10 |
| Frequency of operation, with/without load | 360/72000 ops./h |
| Operate/release time max. | 10/5ms |
| Bounce time max. | 4ms |

Contact ratings

| Type | Contact | Load | Cycles |
|----------------------|--------------------------|-----------------------------------|---------------------|
| IEC 61810 | | | |
| RE030 | A (NO) | 6A, 250VAC, cosφ=1, 70°C | 100x10 ³ |
| RE034 | A (NO) | 6A, 250VAC, cosφ=1, 70°C | 100x10 ³ |
| UL 508 | | | |
| RE030 | A (NO) | 1/4 hp, 240VAC, motor 40°C | 30x10 ³ |
| RE030 | A (NO) | B300 pilot duty 40°C | 6x10 ³ |
| RE034 | A (NO) | 6A, 250VAC, general purpose, 70°C | 100x10 ³ |
| RE034 | A (NO) | B300 pilot duty 40°C | 6x10 ³ |
| Mechanical endurance | >30x10 ⁶ ops. | | |

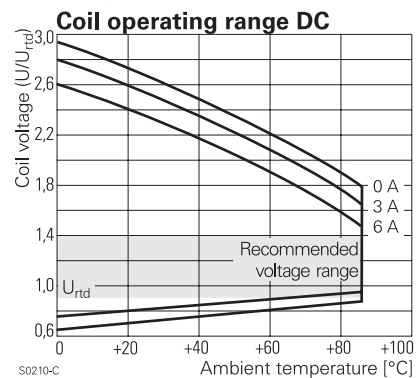
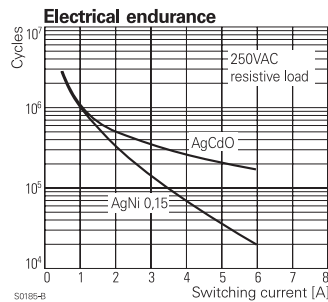
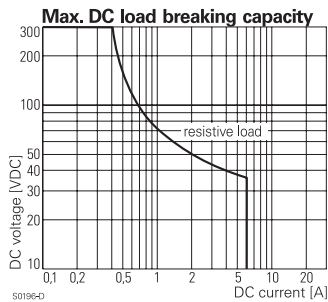
Coil Data

| | |
|-----------------------------------------|-------------|
| Coil voltage range | 5 to 48 VDC |
| Operative range, IEC 61810 | 2 |
| Coil insulation system according UL1446 | F |

Coil versions, DC coil

| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ω±10% ¹⁾ | Rated coil power mW |
|-----------|-------------------|---------------------|---------------------|-------------------------------------|---------------------|
| 5 | 5 | 3.5 | 0.5 | 125 | 200 |
| 6 | 6 | 4.2 | 0.6 | 180 | 200 |
| 12 | 12 | 8.4 | 1.2 | 720 | 200 |
| 18 | 18 | 12.6 | 1.8 | 1620 | 200 |
| 24 | 24 | 16.8 | 2.4 | 2880 ¹⁾ | 200 |
| 48 | 48 | 33.6 | 4.8 | 11520 ¹⁾ | 200 |

¹⁾ Coil resistance ±15%.
All figures are given for coil without pre-energization, at ambient temperature +23°C.
Other coil voltages on request.



Insulation Data

| | |
|------------------------------------|-----------------------|
| Initial dielectric strength | |
| between open contacts | 1000V _{rms} |
| between contact and coil | 4000V _{rms} |
| Initial insulation resistance | |
| open contact circuit | >10x10 ⁹ Ω |
| coil-contact circuit | >10x10 ⁹ Ω |
| Clearance/creepage | |
| between contact and coil | ≥4/4mm |
| Material group of insulation parts | IIIa |
| Tracking index of relay base | PTI250V |

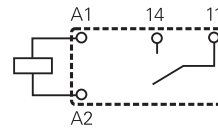
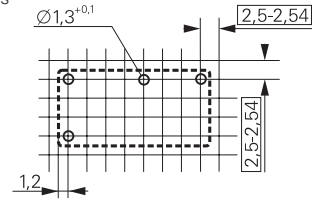
Miniature PCB Relay RE (Continued)

Other Data

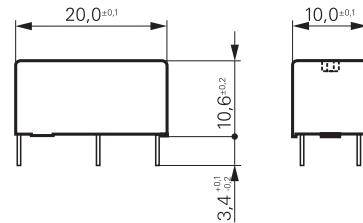
| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customer-support/rohssupportcenter | |
| Resistance to heat and fire | according EN 60335, par.30 |
| Ambient temperature | -40 to +70°C -40 to +85°C at 4A |
| Category of environmental protection | IEC 61810 |
| Vibration resistance (functional) | RTIII - wash tight 10g |
| Terminal type | PCB-THT |
| Resistance to soldering heat THT | IEC 60068-2-20 260°C/5s |
| Packaging/unit | tube/25 pcs. |

PCB layout / terminal assignment

Bottom view on solder pins



Dimensions



Product code structure

Typical product code **RE 0 3 2 012**

Type

RE Miniature PCB Relay RE

Version

0 Wash tight

Contact Configuration

A form A (NO) contact

Contact material

| | | |
|---------------------|--------------------------------|---------------------------------|
| 1 AgNi 0.15 | 2 AgNi 0.15 gold plated | 5 AgNi 90/10 gold plated |
| 4 AgNi 90/10 | 0 AgCdO | 6 AgCdO gold plated |

Coil

Coil code: please refer to coil versions table

| Product code | Version | Contacts | Contact material | Coil | Part Number |
|--------------|------------|--------------|-----------------------|-------|-------------|
| RE030005 | wash tight | 1 form A | AgCdO | 5VDC | 1393217-1 |
| RE030006 | | 1 NO contact | | 6VDC | 1393217-2 |
| RE030012 | | | | 12VDC | 1393217-4 |
| RE030024 | | | | 24VDC | 1393217-8 |
| RE030048 | | | | 48VDC | 1-1393217-1 |
| RE032005 | | | AgNi 0.15 gold plated | 5VDC | 1-1393217-9 |
| RE032006 | | | | 6VDC | 2-1393217-0 |
| RE032012 | | | | 12VDC | 2-1393217-2 |
| RE032024 | | | | 24VDC | 2-1393217-4 |
| RE032048 | | | | 48VDC | 2-1393217-5 |
| RE034005 | | | AgNi 90/10 | 5VDC | 2-1416010-3 |
| RE034006 | | | | 6VDC | 2-1416010-4 |
| RE034012 | | | | 12VDC | 2-1416010-6 |
| RE034024 | | | | 24VDC | 2-1416010-7 |
| RE034048 | | | | 48VDC | 2-1416010-8 |

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