

## **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 200mm<sup>2</sup>
- Wash tight
- Product in accordance to IEC 60335-1 (domestic appliances)



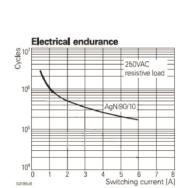
Typical applications

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                                     | AgNi 90/10       |  |  |  |  |
| Frequency of operation, with/without load            | 360/72000 ops./h |  |  |  |  |
| Operate/release time max.                            | 10/5ms           |  |  |  |  |
| Bounce time max.                                     | 4ms              |  |  |  |  |
| Bounce time max.                                     | 4ms              |  |  |  |  |

| Bounce time max. |              | 4ms                               |                     |
|------------------|--------------|-----------------------------------|---------------------|
| Contact          | ratings      |                                   |                     |
| Туре             | Contact      | Load                              | Cycles              |
| IEC 6181         | 10           |                                   |                     |
| RE034            | A (NO)       | 6A, 250VAC, cosφ=1, 70°C          | 100x10 <sup>3</sup> |
| UL 508           |              |                                   |                     |
| RE034            | A (NO)       | 6A, 250VAC, general purpose, 70°C | 100x10 <sup>3</sup> |
| RE034            | A (NO)       | B300 pilot duty 40°C              | 6x10 <sup>3</sup>   |
| RE034            | A (NO)       | 6A, 30VDC, general purpose, 70°C  | 100x10 <sup>3</sup> |
| Mechanic         | cal endurand | ce >30x10 <sup>6</sup> ops.       |                     |
|                  |              |                                   |                     |

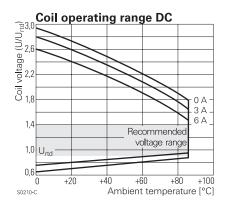


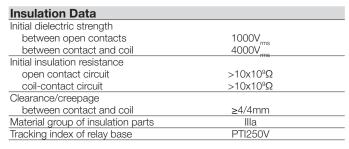
| Coil Data                  |             |  |
|----------------------------|-------------|--|
| Coil voltage range         | 5 to 48 VDC |  |
| Operative range, IEC 61810 | 2           |  |

| Coil insul             | ation system | F       |         |                        |            |  |  |
|------------------------|--------------|---------|---------|------------------------|------------|--|--|
| Coil versions, DC coil |              |         |         |                        |            |  |  |
| Coil                   | Rated        | Operate | Release | Coil                   | Rated coil |  |  |
| code                   | voltage      | voltage | voltage | resistance             | power      |  |  |
|                        | VDC          | VDC     | VDC     | $\Omega \pm 10\%^{1)}$ | mW         |  |  |
| 5                      | 5            | 3.5     | 0.5     | 125                    | 200        |  |  |
| 6                      | 6            | 4.2     | 0.6     | 180                    | 200        |  |  |
| 9                      | 9            | 6.3     | 0.9     | 405                    | 200        |  |  |
| 12                     | 12           | 8.4     | 1.2     | 720                    | 200        |  |  |
| 18                     | 18           | 12.6    | 1.8     | 1620                   | 200        |  |  |
| 24                     | 24           | 16.8    | 2.4     | 28801)                 | 200        |  |  |
| 48                     | 48           | 33.6    | 4.8     | 115201)                | 200        |  |  |

1) Coil resistance ±15%.

All figures are given for coil without pre-energization, at ambient temperature  $+23^{\circ}$ C. Other coil voltages on request.





Max. DC load breaking capacity

200



## 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

 $\underline{www.te.com/customersupport/rohssupportcenter}$ 

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 RTIII - wash tight

 Vibration resistance (functional)
 10g

 Terminal type
 PCB-THT

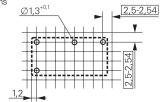
Resistance to soldering heat THT

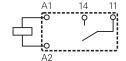
IEC 60068-2-20 260°C/5s

Packaging/unit tube/25 pcs., box/500 pcs.

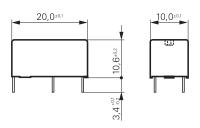
#### PCB layout / terminal assignment

Bottom view on solder pins





### **Dimensions**



| Product code structure                                 | Typical product code | RE | 0 | 3 | 4 | 012 |
|--|----------------------|----|---|---|---|-----|
| Туре   |                      | J  |   |   |   |     |
| RE Miniature PCB Relay RE                              |                      |    |   |   |   |     |
| Version 0 Wash tight                                   |                      |    |   |   |   |     |
| Contact Configuration 3 form A (NO) contact            |                      |    |   | _ |   |     |
| Contact material 5 AgNi 90/10 gold plated 4 AgNi 90/10 |                      |    |   |   | ı |     |
| Coil   |                      |    |   |   |   |     |

Coil code: please refer to coil versions table

| Product code | Version    | Contacts    | Contact material       | Coil   | Part Number |
|--------------|------------|-------------|------------------------|--------|-------------|
| RE034005     | wash tight | NO contacts | AgNi 90/10             | 5 VDC  | 2-1416010-3 |
| RE034006     | wash tight | NO contacts | AgNi 90/10             | 6 VDC  | 2-1416010-4 |
| RE034009     | wash tight | NO contacts | AgNi 90/10             | 9 VDC  | 2-1416010-5 |
| RE034012     | wash tight | NO contacts | AgNi 90/10             | 12 VDC | 2-1416010-6 |
| RE034018     | wash tight | NO contacts | AgNi 90/10             | 18 VDC | 3-1416010-2 |
| RE034021     | wash tight | NO contacts | AgNi 90/10             | 21 VDC | 1956220-7   |
| RE034024     | wash tight | NO contacts | AgNi 90/10             | 24 VDC | 2-1416010-7 |
| RE035005     | wash tight | NO contacts | AgNi 90/10 gold plated | 5 VDC  | 1956226-3   |
| RE035006     | wash tight | NO contacts | AgNi 90/10 gold plated | 6 VDC  | 1956226-5   |
| RE035009     | wash tight | NO contacts | AgNi 90/10 gold plated | 9 VDC  | 1956226-7   |
| RE035012     | wash tight | NO contacts | AgNi 90/10 gold plated | 12 VDC | 1956226-1   |
| RE035018     | wash tight | NO contacts | AgNi 90/10 gold plated | 18 VDC | 1956226-9   |
| RE035021     | wash tight | NO contacts | AgNi 90/10 gold plated | 21 VDC | 1-1956226-1 |
| RE035024     | wash tight | NO contacts | AgNi 90/10 gold plated | 24 VDC | 1956226-2   |
| RE035048     | wash tight | NO contacts | AgNi 90/10 gold plated | 48 VDC | 1-1956226-3 |

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