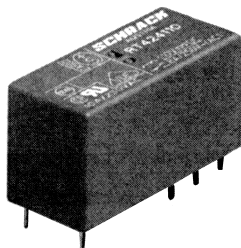


Power PCB Relay RT2

2 pole 8 A, DC and AC-coil



F0149-B

Features

- 2 C/O or 2 N/O contacts
- Sensitive coil 400 mW
- DC- or AC-coil
- 5 kV / 10 mm coil-contact
- Protection class II (VDE 0700)
- Height 15.7 mm
- Sockets with PCB-type or screw-type terminals

Applications

Domestic appliances, heating control, emergency lighting, modems



Technical data of approved types on request

Contact data

| | |
|---|------------------------------------|
| Configuration | 2 C/O contact or 2 N/O contact |
| Type of contact | single contact |
| Rated current | 8 A |
| Rated voltage / max. breaking voltage AC | 250 Vac / 440 Vac |
| Maximum breaking capacity AC | 2000 VA |
| Make current (max. 4 s at duty cycle 10%) | 15 A |
| Contact material | AgNi 90/10, AgNi 90/10 gold plated |

Contact ratings

| Type | Load | Operations | Standard |
|--------|---|---------------------|----------|
| RT 424 | 4 A, 230 Vac, cosφ=0.6 | 1.5x10 ⁵ | |
| RT 424 | 6 (2) A, 250 Vac, on the N/O- N/C contact | | VDE 0631 |
| RT 424 | 1/2 hp / 240 Vac, 1/4 hp / 120 Vac | 6x10 ³ | UL 508 |

Coil data

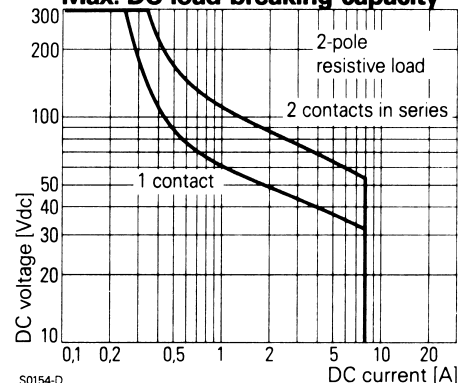
| | | |
|--------------------|---------|--------------|
| Nominal voltage | DC coil | 5...110 Vdc |
| | AC coil | 24...230 Vac |
| Nominal coil power | DC coil | 400 mW |
| | AC coil | 0.75 VA |
| Operate category | | 2 / b |

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 | 12.7 | 62±10% | 80.0 |
| 006 | 6 | 4.2 | 0.6 | 15.3 | 90±10% | 66.7 |
| 012 | 12 | 8.4 | 1.2 | 30.6 | 360±10% | 33.3 |
| 024 | 24 | 16.8 | 2.4 | 61.2 | 1440±10% | 16.7 |
| 048 | 48 | 33.6 | 4.8 | 122.4 | 5520±10% | 8.7 |
| 060 | 60 | 42.0 | 6.0 | 153.0 | 7340±12% | 8.1 |
| 110 | 110 | 77.0 | 11.0 | 280.5 | 26600±12% | 4.1 |

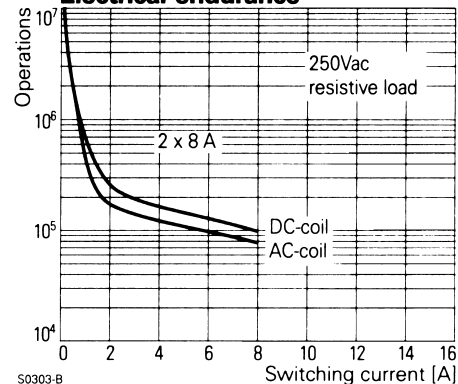
All figures are given for coil without preenergization, at ambient temperature +20°C Other coil voltages on request

Max. DC load breaking capacity



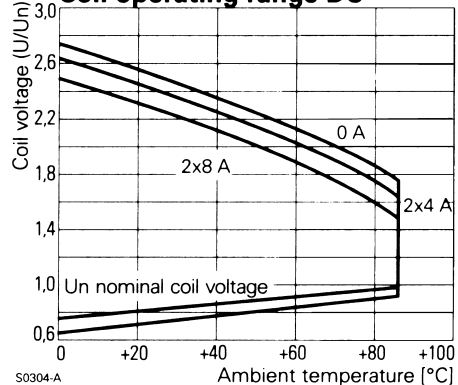
S0154-D

Electrical endurance



S0303-B

Coil operating range DC



S0304-A

Power PCB Relay RT2

2 pole 8 A, DC and AC-coil

Coil versions, AC-coil

| Coil code | Nominal voltage Vac | Pull-in voltage Vac | Release voltage Vac | Maximum voltage Vac | Coil resistance Ω | Coil current mA |
|-----------|------------------------|------------------------|------------------------|------------------------|-----------------------------|--------------------|
| 524 | 24 | 18.0 | 3.6 | 36.0 | $350 \pm 10\%$ | 31.6 |
| 615 | 115 | 86.3 | 17.3 | 172.5 | $8100 \pm 15\%$ | 6.6 |
| 730 | 230 | 172.5 | 34.5 | 345.0 | $32500 \pm 15\%$ | 3.2 |

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

Insulation

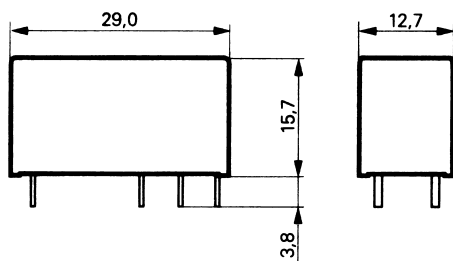
| | | |
|--------------------------------|---|-----------------------|
| Dielectric strength | coil-contacts | 5000 V _{rms} |
| | open contact circuit | 1000 V _{rms} |
| | adjacent contacts | 2500 V _{rms} |
| Clearance / creepage | | 10 / 10 mm |
| Insulation to IEC 60664 | | |
| | Voltage rating | 250 V |
| | Pollution degree | 3 |
| | Overvoltage category | III |
| Insulation to VDE 0110b (2/79) | | |
| | Insulation category / reference voltage | C / 250 |

Other data

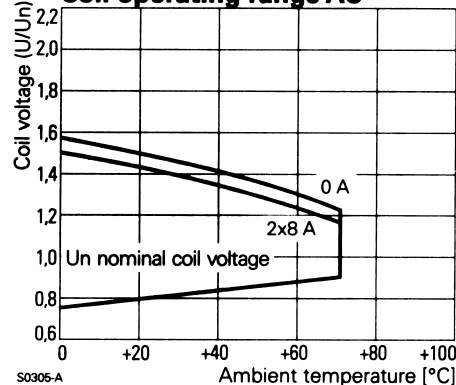
| | |
|--|---|
| Flammability class according to UL 94 | V-0 |
| Coil insulation system according to UL 1446 | Class F |
| Ambient temperature | -40...+70 °C |
| Mechanical life | DC-coil >30x10 ⁶ operations AC-coil >5x10 ⁶ operations |
| Max. switching rate at rated- / minimum load | 6 min ⁻¹ / 1200 min ⁻¹ |
| Operate- / release time DC-coil | typ. 7 / 2 ms |
| Bounce time N/O contact/N/C contact | typ. 1 / 3 ms |
| Vibration resistance N/O / N/C contact | 20 / 5 g, 30...300 Hz |
| Shock resistance (destruction) | 100 g |
| Category of protection (IEC 61810) | RT II - flux proof, RT III - wash tight |
| Relay weight | 13 g |
| Packaging unit | 20 / 500 pcs. |
| Accessories | see accessories RT |

Dimensions

Dimensions in mm

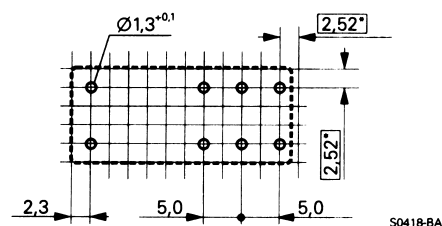


Coil operating range AC



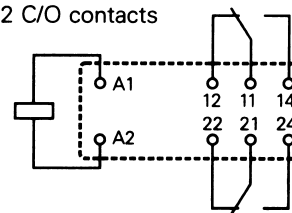
PCB layout / terminal assignment

View on solder pins
Dimensions in mm

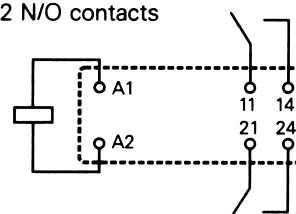


*) With the recommended PCB hole sizes a grid pattern from 2.5 mm to 2.54 mm can be used.

2 C/O contacts



2 N/O contacts



Power PCB Relay RT2

2 pole 8 A, DC and AC-coil

Product key

| | | | | | | | |
|------------------|--|----------|----------|--|--|--|--|
| Type | R | T | 4 | | | | |
| Version | 4 8 A, pinning 5 mm, flux proof E 8 A, pinning 5 mm, wash tight | | | | | | |
| Contacts | 2 2 C/O contacts 4 2 N/O contacts | | | | | | |
| Contact material | 4 AgNi 90/10 5 AgNi 90/10 gold plated | | | | | | |
| Coil | Coil code: please refer to coil versions table | | | | | | |

Preferred types in bold print

| Product key | Version | Contacts | Cont. material | Coil | Coil | Part number |
|--------------------------------|-----------------------------------|----------------|---------------------------|---------|---------|-------------|
| 4/7569 4/7571 | 8 A pinning 5 mm flux proof | 2 C/O contacts | AgNi 90/10 | DC-coil | 5 Vdc | 5-1393243-9 |
| | | | | | 6 Vdc | 6-1393243-1 |
| | | | | | 12 Vdc | 6-1393243-3 |
| | | | | | 24 Vdc | 6-1393243-8 |
| | | | | | 48 Vdc | 7-1393243-0 |
| | | | | | 60 Vdc | 7-1393243-3 |
| | | | | | 110 Vdc | 7-1393243-5 |
| | | | | AC-coil | 24 Vac | 7-1393243-6 |
| | | | | | 115 Vac | 7-1393243-8 |
| | | | | | 230 Vac | 7-1393243-9 |
| 4/7570 4/7573 | 8 A pinning 5 mm wash tight | 2 C/O contacts | AgNi 90/10 gold plated | DC-coil | 5 Vdc | 8-1393243-0 |
| | | | | | 12 Vdc | 8-1393243-2 |
| | | | | | 24 Vdc | 8-1393243-5 |
| | | | | AC-coil | 24 Vac | 9-1393243-1 |
| | | | | | 115 Vac | 9-1393243-2 |
| | | | AgNi 90/10 | DC-coil | 230 Vac | 9-1393243-3 |
| | | | | | 12 Vdc | 9-1393243-7 |
| | | | | | 24 Vdc | 9-1393243-9 |
| | | | | | 5 Vdc | 0-1393243-1 |
| | | | | | 6 Vdc | 0-1393243-2 |
| | 8 A pinning 5 mm wash tight | 2 C/O contacts | AgNi 90/10 gold plated | DC-coil | 12 Vdc | 0-1393243-4 |
| | | | | | 24 Vdc | 1-1393243-0 |
| | | | | | 48 Vdc | 1-1393243-1 |
| | | | | | 60 Vdc | 1-1393243-3 |
| | | | | | 110 Vdc | 1-1393243-4 |
| | | | | AC-coil | 24 Vac | 1-1393243-5 |
| | | | | | 115 Vac | 1-1393243-7 |
| | | | | | 230 Vac | 1-1393243-8 |
| | | | AgNi 90/10 gold plated | DC-coil | 5 Vdc | 1-1393243-9 |
| | | | | | 12 Vdc | 2-1393243-0 |
| | | | | | 24 Vdc | 2-1393243-1 |