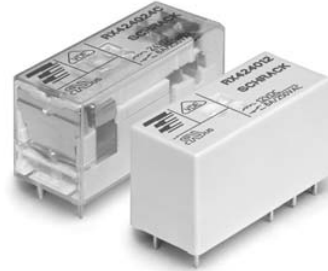


Power PCB Relay RX2

- 2-pole 8 A, 2 CO contacts
- DC- or AC-coil
- Reinforced insulation
- Height 15.7 mm
- Transparent cover optional



S0271-A

Applications

Domestic appliances, heating control, emergency lighting, automatic doors

Approvals

REG.-Nr. A651, US E214025
Technical data of approved types on request

Contact data

| | |
|--|---------------------------|
| Contact configuration | 2 CO |
| Contact set | single contact |
| Type of interruption | micro disconnection |
| Rated voltage / max. switching voltage AC | 250 / 400 VAC |
| Rated current | 8 A |
| Maximum breaking capacity AC | 2000 VA |
| Limiting making capacity, max 4 s, duty factor 10% | 15 A |
| Contact material | AgNi 90/10 |
| Rated frequency of operation with / without load | 6 / 600 min ⁻¹ |
| Operate- / release time DC coil | max 8 / 6 ms |
| Bounce time DC coil, NO / NC contact | max 4 / 10 ms |

Contact ratings

| Type | Contact Load | Ambient temp. [°C] | Cycles |
|------------------|-------------------------------|--------------------|--------------------|
| IEC 61810 | | | |
| RX424 CO | 8 A, 250 VAC, cosφ=1 | 70°C | 40x10 ³ |
| RX424 NC | 8 A, 250 VAC, cosφ=1 | 70°C | 60x10 ³ |
| UL 508 | | | |
| RX424 NO / NC | 8 A, 250 VAC, general purpose | 70°C | 40x10 ³ |

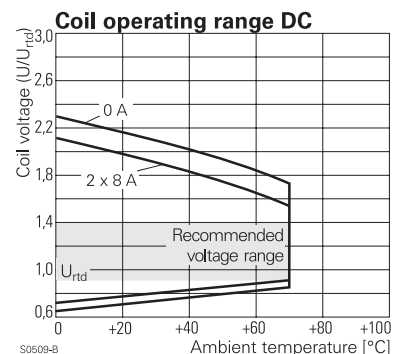
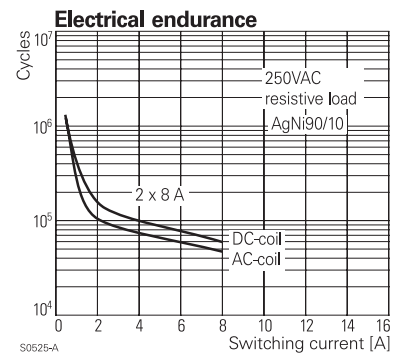
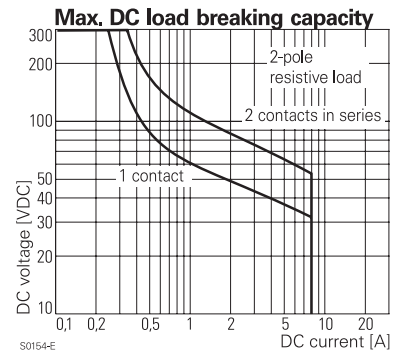
Coil data

| | |
|---|--------------|
| Rated coil voltage range DC coil | 5...110 VDC |
| AC coil | 24...230 VAC |
| Operative range to IEC 61810 | 2 |
| Coil insulation system according UL1446 | class 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 | 50±10% | 500 |
| 006 | 6 | 4.2 | 0.6 | 68±10% | 529 |
| 012 | 12 | 8.4 | 1.2 | 274±10% | 526 |
| 024 | 24 | 16.8 | 2.4 | 1095±10% | 526 |
| 048 | 48 | 33.6 | 4.8 | 4380±10% | 526 |
| 060 | 60 | 42.0 | 6.0 | 6845±10% | 526 |
| 110 | 110 | 77.0 | 11.0 | 23010±10% | 526 |

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



Power PCB Relay RX2 (Continued)

Coil versions, AC-coil 50Hz

| Coil code | Rated voltage | Operate voltage | Release voltage | Coil resistance | Rated coil power |
|-----------|---------------|-----------------|-----------------|-----------------|------------------|
| | VAC | 50 Hz | 50 Hz | Ohm | 50 Hz |
| 524 | 24 | 18.0 | 3.6 | 350 ± 10% | 0.76 |
| 615 | 115 | 86.3 | 17.3 | 8100 ± 15% | 0.76 |
| 730 | 230 | 172.5 | 34.5 | 32500 ± 15% | 0.74 |

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

Insulation

| | |
|---|-----------------------|
| Dielectric strength coil-contact circuit | 4000 V _{rms} |
| open contact circuit | 1000 V _{rms} |
| adjacent contact circuits | 2500 V _{rms} |
| Clearance / creepage coil-contact circuit | ≥ 8 / 8 mm |
| adjacent contact circuits | ≥ 3 / 4 mm |
| Material group of insulation parts | IIIa |
| Tracking index of relay base | PTI 250 V |
| Insulation to IEC 61810-1 | |
| Type of insulation coil-contact circuit | reinforced |
| open contact circuit | micro disconnection |
| adjacent contact circuits | basic |
| Rated insulation voltage | 250 V |
| Pollution degree | 3 |
| Rated voltage system | 240 V |
| Overvoltage category | III |

Other data

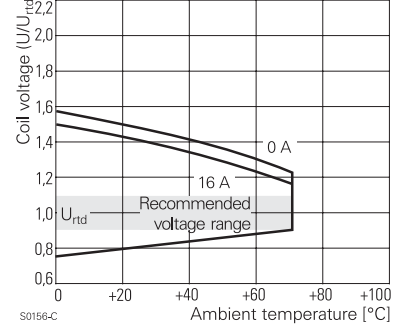
| | |
|---|---|
| Mechanical endurance DC coil | > 5 x 10 ⁶ cycles |
| AC coil | > 1 x 10 ⁶ cycles |
| Material | |
| RoHS - Directive 2002/95/EC | compliant as per product date code 0413 |
| Environment | |
| Ambient temperature range | -40...+70°C |
| Vibration resistance (function) NO / NC contact | 20 / 4 g, 10 ... 150 Hz |
| Shock resistance (destruction) | 100 g |
| Category of protection | RTII - flux proof |
| Processing | |
| Mounting standard version (white cover) | pcb or on socket |
| transparent version | pcb |
| Mounting distance | ≥ 2,5 mm ¹⁾ |
| Resistance to soldering heat flux-proof version | 270°C / 10 s |
| Relay weight | 14 g |
| Packaging unit | 500 pcs |

¹⁾ Version with transparent cover: 5 mm

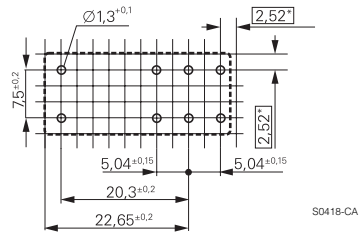
Accessories

For standard version (white cover), details see accessories RT

Coil operating range AC

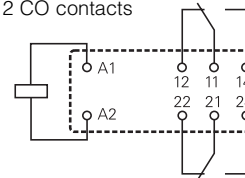


PCB layout / terminal assignment
Bottom view on solder pins

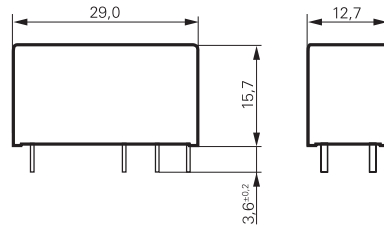


^{*)} With the recommended PCB hole sizes a grid pattern from 2.5 mm to 2.54 mm can be used.

2 CO contacts



Dimensions



Power PCB Relay RX2 (Continued)

| | | | | | | |
|------------------------------|---|-----------|----------|----------|----------|------------|
| Product key | Typical product key | RX | 4 | 2 | 4 | 012 |
| Type | RX Power PCB Relay RX2 | | | | | |
| Version | 4 8 A, pinning 5 mm, flux proof | | | | | |
| Contact configuration | 2 2 CO contacts (2 form C) | | | | | |
| Contact material | 4 AgNi 90/10 | | | | | |
| Coil | Coil code: please refer to coil versions table | | | | | |
| Cover | Blank standard cover (white) C transparent cover (clear) | | | | | |

| Product key | Version | Contacts | Cont. material | Coil | Cover | Part number |
|-------------|-------------|---------------|----------------|---------|-------------|-------------|
| RX424012 | 8 A | 2 CO contacts | | 12 VDC | | 2-1415504-1 |
| RX424012C | pinning 5mm | | | 12 VDC | transparent | 5-1415504-1 |
| RX424024 | flux proof | | | 24 VDC | white | 3-1415504-1 |
| RX424024C | | | | 24 VDC | transparent | 6-1415504-1 |
| RX424524 | | | | 24 VAC | white | 5-1415532-1 |
| RX424730 | | | | 230 VAC | | 4-1415504-1 |
| RX424730C | | | | 230 VAC | transparent | 7-1415504-1 |