

Relay Module - RIF-0-RSC-24DC/ 1 - 2903366


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Pre-assembled relay module with screw connection, consisting of: relay base with ejector and power contact relay. Contact type: 1 N/O contact. Input voltage: 24 V DC



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 10 STK |
| GTIN |  4 046356 732949 |
| GTIN | 4046356732949 |

Technical data

Note

| | |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

Dimensions

| | |
|--------|--------|
| Width | 6.2 mm |
| Height | 84 mm |
| Depth | 68 mm |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -40 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Coil side

| | |
|---|-------------|
| Nominal input voltage U_N | 24 V DC |
| Input voltage range in reference to U_N | see diagram |
| Typical input current at U_N | 9 mA |
| Typical response time | 5 ms |
| Typical release time | 8 ms |
| Coil voltage | 24 V DC |

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Technical data

Coil side

| | |
|---|---------------|
| Protective circuit | Damping diode |
| Operating voltage display | Yellow LED |
| Power dissipation for nominal condition | 0.22 W |

Contact side

| | |
|--|------------------------|
| Contact type | 1 N/O contact |
| Type of switch contact | Single contact |
| Contact material | AgSnO |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V (at 100 mA) |
| Min. switching current | 10 mA (at 12 V) |
| Maximum inrush current | 10 A (4 s) |
| Limiting continuous current | 6 A |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC) |
| | 20 W (at 48 V DC) |
| | 18 W (at 60 V DC) |
| | 23 W (at 110 V DC) |
| | 40 W (at 220 V DC) |
| | 1500 VA (for 250 V AC) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 1 A (24 V (DC13)) |
| | 0.2 A (at 110 V, DC13) |
| | 0.1 A (at 220 V, DC13) |
| | 3 A (at 24 V, AC15) |
| | 3 A (at 120 V, AC15) |
| | 3 A (at 230 V, AC15) |

Connection data input side

| | |
|---|---|
| Connection name | Coil side |
| Connection method | Screw connection |
| Stripping length | 7 mm |
| Conductor cross section solid | 0.5 mm ² ... 4 mm ² |
| Conductor cross-section solid (2 conductors with same cross section) | 0.5 mm ² ... 1.5 mm ² |
| Conductor cross section flexible | 0.5 mm ² ... 2.5 mm ² |
| | 0.5 mm ² ... 2.5 mm ² (Ferrules without plastic sleeve) |
| | 0.5 mm ² ... 1.5 mm ² (Ferrule with plastic sleeve) |
| Conductor cross section flexible (2 conductors with same cross section) | 0.5 mm ² ... 1.5 mm ² |
| | 0.5 mm ² ... 1 mm ² (TWIN ferrule with plastic sleeve) |
| Conductor cross section AWG | 20 ... 12 (solid) |
| | 20 ... 14 (flexible) |
| Torque | 0.5 Nm ... 0.6 Nm |

Connection data output side

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Technical data

Connection data output side

| | |
|---|---|
| Connection name | Contact side |
| Connection method | Screw connection |
| Stripping length | 7 mm |
| Conductor cross section solid | 0.5 mm ² ... 4 mm ² |
| Conductor cross-section solid (2 conductors with same cross section) | 0.5 mm ² ... 1.5 mm ² |
| Conductor cross section flexible | 0.5 mm ² ... 2.5 mm ² |
| | 0.5 mm ² ... 2.5 mm ² (Ferrules without plastic sleeve) |
| | 0.5 mm ² ... 1.5 mm ² (Ferrule with plastic sleeve) |
| Conductor cross section flexible (2 conductors with same cross section) | 0.5 mm ² ... 1.5 mm ² |
| | 0.5 mm ² ... 1 mm ² (TWIN ferrule with plastic sleeve) |
| Conductor cross section AWG | 20 ... 12 (solid) |
| | 20 ... 14 (flexible) |
| Torque | 0.5 Nm ... 0.6 Nm |

General

| | |
|--|-------------------------------------|
| Test voltage relay winding/relay contact | 4 kV _{rms} (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Degree of protection | IP20 (Relay base) |
| | RT III (Relay) |
| Mechanical service life | approx. 2x 10 ⁷ cycles |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |

Standards and Regulations

| | |
|--|----------------|
| Standards/regulations | DIN EN 50178 |
| Rated insulation voltage | 250 V AC |
| Rated surge voltage | 6 kV |
| Insulation | safe isolation |
| Degree of pollution | 2 |
| Overvoltage category | III |
| Flammability rating according to UL 94 | V2 |

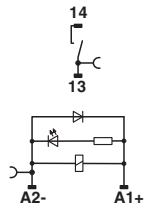
Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

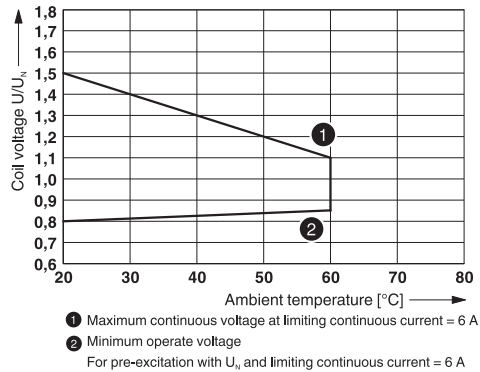
Relay Module - RIF-0-RSC-24DC/ 1 - 2903366

Circuit diagram



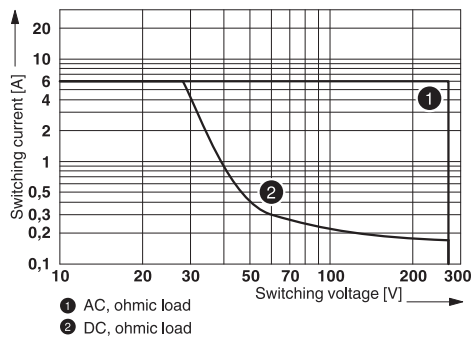
DC coils

Diagram

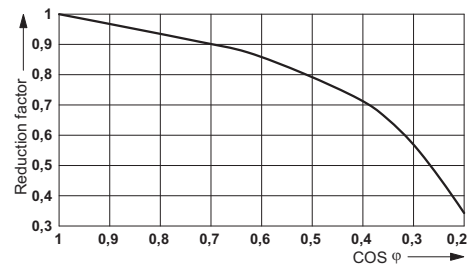


Operating voltage range

Diagram



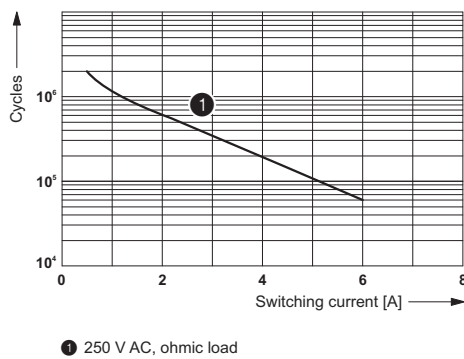
Diagram



Interrupting rating

Service life reduction factor

Diagram



Electrical service life

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Articles in set

Single relay - REL-MR- 24DC/21 - 2961105



Plug-in miniature power relay, with power contact, 1 PDT, input voltage 24 V DC

Relay base - RIF-0-BSC/ 1 - 2901872



RIF-0... relay base, for miniature power relay with 1 N/O contact or identical solid-state relays, screw connection, for mounting on NS 35/7,5

Approvals

Approvals

Approvals

DNV GL / EAC

Ex Approvals

Approval details

| | | |
|--------|---|------------|
| DNV GL | http://exchange.dnv.com/tari/ | TAA000018V |
|--------|---|------------|

| | | |
|-----|--|--------------------------|
| EAC | | RU C- DE.A*30.B.01082 |
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