

Relay Module - RIF-0-RPT-24DC/ 1AU - 2903359

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Pre-assembled relay module with push-in connection, consisting of: relay base with ejector and multi-layer gold contact relay. Contact type: 1 N/O contact. Input voltage: 24 V DC



Key commercial data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 26.0 GRM |
| Custom tariff number | 85364110 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|--------|--------|
| Width | 6.2 mm |
| Height | 93 mm |
| Depth | 66 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) |
| Nominal input current at U_{IN} | 9 mA |
| Typical response time | 5 ms |
| Typical release time | 8 ms |
| Operating voltage display | Yellow LED |
| Protective circuit | Damping diode |

Relay Module - RIF-0-RPT-24DC/ 1AU - 2903359

Technical data

Contact side

| | |
|--|--|
| Contact type | 1 N/O contact |
| Contact material | AgSnO, hard gold-plated |
| Maximum switching voltage | 30 V AC |
| | 36 V DC |
| Minimum switching voltage | 100 mV (at 10 mA) |
| Maximum inrush current | 50 mA |
| Min. switching current | 1 mA (at 12 V) |
| Limiting continuous current | 50 mA |
| Interrupting rating (ohmic load) max. | 1.2 W (at 24 V DC) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 1 A (24 V (DC13)) |
| | 3 A (230 V (AC 15)) |
| Note | the following values are applicable if a gold layer is destroyed |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V (at 100 mA) |
| Limiting continuous current | 6 A |
| Min. switching current | 10 mA (at 12 V) |
| 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) |

Connection data

| | |
|--|----------------------|
| Connection method | Push-in connection |
| Conductor cross section solid min. | 0.14 mm ² |
| Conductor cross section solid max. | 1.5 mm ² |
| Conductor cross section stranded min. | 0.14 mm ² |
| Conductor cross section stranded max. | 1.5 mm ² |
| Conductor cross section stranded, with ferrule with plastic sleeve min. | 0.14 mm ² |
| Conductor cross section stranded, with ferrule with plastic sleeve max. | 1.5 mm ² |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 0.14 mm ² |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 1.5 mm ² |
| Conductor cross section AWG/kcmil min. | 26 |
| Conductor cross section AWG/kcmil max. | 16 |
| Stripping length | 8 mm |

General

Relay Module - RIF-0-RPT-24DC/ 1AU - 2903359

Technical data

General

| | |
|--|-------------------------------------|
| Test voltage relay winding/relay contact | 4 kV _{rms} (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Degree of protection | IP20 (Relay socket) |
| | RT III (Relay) |
| Mechanical service life | Approx. 2 x 10 ⁷ cycles |
| Standards/regulations | DIN EN 50178 |
| | IEC 62103 |
| Rated insulation voltage | 250 V AC |
| Pollution degree | 2 |
| Surge voltage category | III |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |

Articles in set

Single relay - REL-MR- 24DC/21AU - 2961121



Pluggable miniature relays, with multi-layer contact, 1 PDT, input voltage 24 V DC

Relay socket - RIF-0-BPT/1 - 2901873



RIF-0... relay base, for miniature power relay with 1 N/O contact or solid-state relays of the same design, push-in connection, for mounting on NS 35/7,5

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371603 |
| eCl@ss 5.1 | 27371603 |
| eCl@ss 6.0 | 27371603 |

Relay Module - RIF-0-RPT-24DC/ 1AU - 2903359

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 7.0 | 27371603 |
| eCl@ss 8.0 | 27371603 |

ETIM

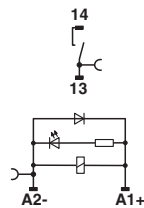
| | |
|----------|----------|
| ETIM 3.0 | EC001456 |
| ETIM 4.0 | EC001456 |
| ETIM 5.0 | EC001437 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211917 |
| UNSPSC 7.0901 | 39121516 |
| UNSPSC 11 | 39121516 |
| UNSPSC 12.01 | 39121516 |
| UNSPSC 13.2 | 39121516 |

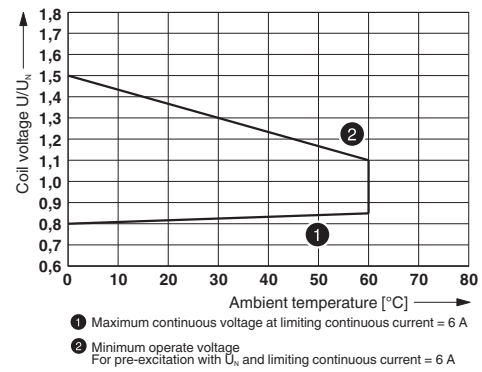
Drawings

Circuit diagram



DC coils

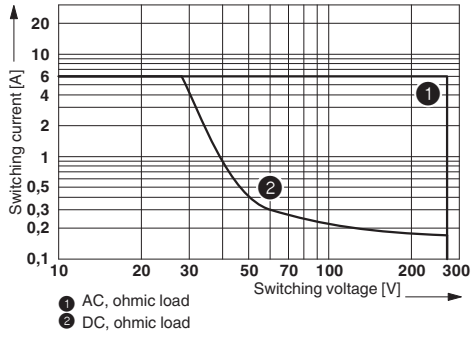
Diagram



Operating voltage range

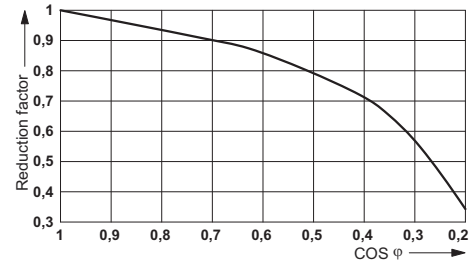
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Diagram



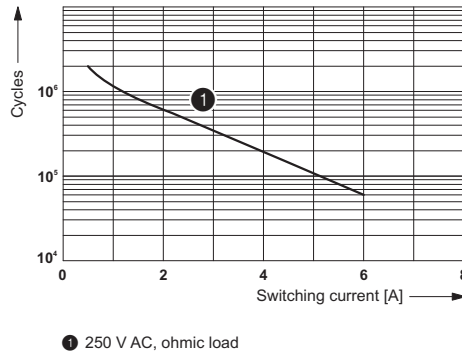
Interrupting rating

Diagram



Service life reduction factor

Diagram



Electrical service life