

Relay Module - RIF-3-RPT-LV-120AC/2X21 - 2903296

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Pre-assembled relay module with push-in connection, consisting of: relay base, power contact relay, plug-in display/suppressor module, and retaining bracket. Contact type: 2 PDTs. Input voltage: 120 V AC

The figure shows the 24 V DC version



Key commercial data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 164.0 GRM |
| Custom tariff number | 85364900 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|--------|--------|
| Width | 40 mm |
| Height | 103 mm |
| Depth | 90 mm |

Ambient conditions

| | |
|-----------------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 50 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Coil side

| | |
|-------------------------------------------|----------------|
| Nominal input voltage U_N | 120 V AC |
| Input voltage range in reference to U_N | (see diagram) |
| Nominal input current at U_{IN} | 23 mA |
| Typical response time | 5 ms ... 15 ms |
| Typical release time range | 5 ms ... 20 ms |
| Operating voltage display | Yellow LED |

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Technical data

Coil side

| | |
|--------------------|----------|
| Protective circuit | Varistor |
|--------------------|----------|

Contact side

| | |
|--------------------------------------------------------|---------------------------|
| Contact type | 2 PDT |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 10 V (At 24 mA) |
| Maximum inrush current | 30 A (20 ms, N/O contact) |
| Min. switching current | 10 mA (at 24 V) |
| Limiting continuous current | 7 A (see diagram) |
| Interrupting rating (ohmic load) max. | 168 W (at 24 V DC) |
| | 124 W (at 48 V DC) |
| | 108 W (at 60 V DC) |
| | 52 W (at 110 V DC) |
| | 48 W (at 220 V DC) |
| | 1750 VA (for 250 V AC) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 2 A (24 V (DC13)) |
| | 1.5 A (230 V (AC 15)) |

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

| | |
|------------------------------------------|---------------------------------------|
| Test voltage relay winding/relay contact | 2.5 kV _{rms} (50 Hz, 1 min.) |
| Test voltage relay contact/relay contact | 2 kV _{rms} (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Degree of protection | IP20 (Relay socket) |
| | RT I (Relay) |

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Technical data

General

| | |
|--------------------------|--------------------------------|
| Mechanical service life | Approx. 2×10^7 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

Relay Module - RIF-3-RPT-LDP-24DC/2X21 - 2903297



Pre-assembled relay module with push-in connection, consisting of: relay base, power contact relay, and retaining bracket. Contact type: 2 PDTs. Input voltage: 24 V DC

Single relay - REL-OR2/L-120AC/2X21 - 2903691



Pluggable octal relay with power contacts, 2 PDT, test button, mechanical switching position indication, coil voltage 120 V AC

Plug-in module - RIF-V-120-230 UC - 2900948



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor, input voltage: 120 - 230 V AC/DC $\pm 20\%$

Relay Module - RIF-3-RPT-LV-120AC/2X21 - 2903296

Articles in set

Retaining bracket - RIF-RH-3 - 2900955



Relay retaining bracket, with holder for marking material, suitable for RIF-3 relay base, for octal relay

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 |
| 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 |

Approvals

Approvals

Approvals

CSA

Ex Approvals

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Approvals

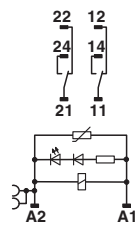
Approvals submitted

Approval details



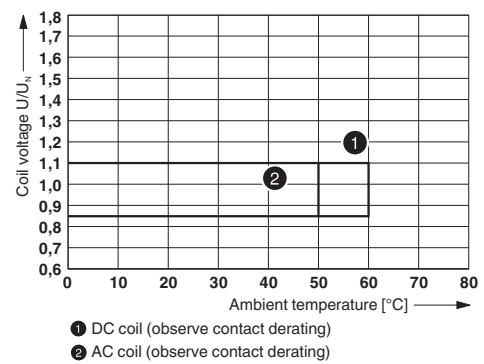
Drawings

Circuit diagram



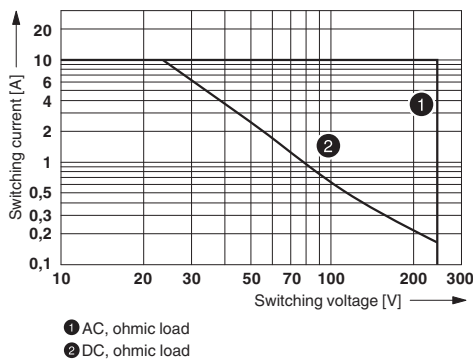
AC coils

Diagram



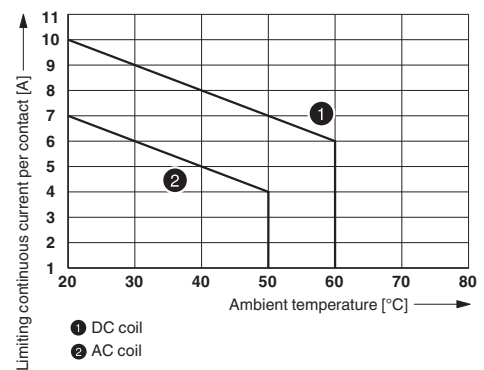
Operating voltage range

Diagram



Interrupting rating

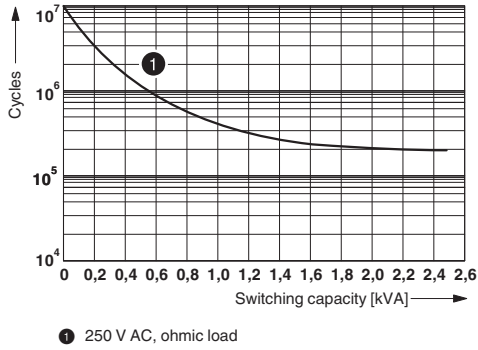
Diagram



Contact derating

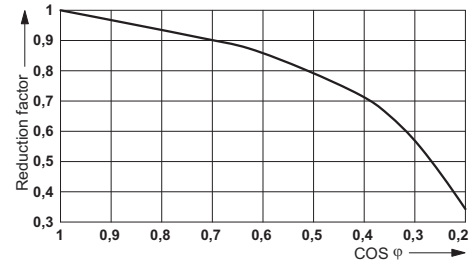
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Diagram



Electrical service life

Diagram



Service life reduction factor

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