

Relay Module - RIF-4-RSC-LDP-24DC/3X21 - 2903288


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Pre-assembled relay module with screw connection, consisting of: relay base, power contact relay, and retaining bracket. Contact type: 3 changeover contacts. Input voltage: 24 V DC



Key Commercial Data

| | |
|----------------------|--|
| Packing unit | 1 |
| GTIN |  |
| GTIN | 4046356731935 |
| Custom tariff number | 85364110 |

Technical data

Note

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

Dimensions

| | |
|--------|-------|
| Width | 44 mm |
| Height | 96 mm |
| Depth | 91 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 |

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Technical data

Coil side

| | |
|---|---------------|
| Typical input current at U_N | 56 mA |
| Typical response time | 20 ms |
| Typical release time | 20 ms |
| Coil voltage | 24 V DC |
| Protective circuit | Damping diode |
| Operating voltage display | Yellow LED |
| Power dissipation for nominal condition | 1.34 W |

Contact side

| | |
|--|--|
| Contact type | 3 PDTs |
| Type of switch contact | Single contact |
| Contact material | AgNi |
| Maximum switching voltage | 440 V AC |
| | 250 V DC |
| Minimum switching voltage | 10 V (At 24 mA) |
| Min. switching current | 10 mA (at 24 V) |
| Maximum inrush current | 50 A (20 ms, N/O contact) |
| Limiting continuous current | 10 A (see diagram) |
| Interrupting rating (ohmic load) max. | 240 W (at 24 V DC) |
| | 124 W (at 48 V DC) |
| | 108 W (at 60 V DC) |
| | 52 W (at 110 V DC) |
| | 70 W (at 220 V DC) |
| | 2500 VA (for 250 V AC) |
| | 4000 VA (At 440 V AC) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 2 A (at 24 V, DC13) |
| | 0.22 A (at 120 V, DC13) |
| | 0.11 A (at 250 V, DC13) |
| | 3 A (at 24 V, AC15) |
| | 3 A (at 120 V, AC15) |
| | 1.5 A (at 240 V, AC15) |
| 3-phase motor load | 1500 W |
| Motor load according to UL 508 | 1/3 HP, 120 V AC (single-phase AC motor) |
| | 1/2 HP, 240 V AC (single-phase AC motor) |
| | 1/2 HP, 240 V AC (three-phase induction motor) |

Connection data input side

| | |
|-----------------|-----------|
| Connection name | Coil side |
|-----------------|-----------|

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Connection data input side

| | |
|----------------------------------|--|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Conductor cross section solid | 0.14 mm ² ... 6 mm ² |
| Conductor cross section flexible | 0.14 mm ² ... 4 mm ² |
| Conductor cross section AWG | 26 ... 10 |

Connection data output side

| | |
|----------------------------------|--|
| Connection name | Contact side |
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Conductor cross section solid | 0.14 mm ² ... 6 mm ² |
| Conductor cross section flexible | 0.14 mm ² ... 4 mm ² |
| Conductor cross section AWG | 26 ... 10 |

General

| | |
|--|---------------------------------------|
| Test voltage relay winding/relay contact | 2.5 kV _{rms} (50 Hz, 1 min.) |
| Test voltage relay contact/relay contact | 2.5 kV _{rms} (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Degree of protection | IP20 (Relay socket) |
| | RT I (Relay) |
| Mechanical service life | Approx. 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 | 4 kV |
| Insulation | Basic insulation |
| Degree of pollution | 2 |
| Overvoltage category | III |

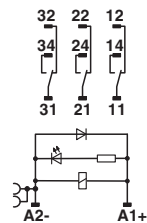
Environmental Product Compliance

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

Drawings

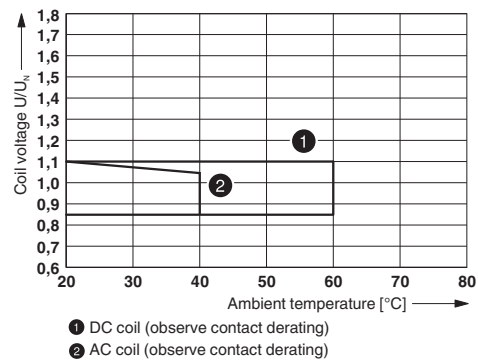
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Circuit diagram



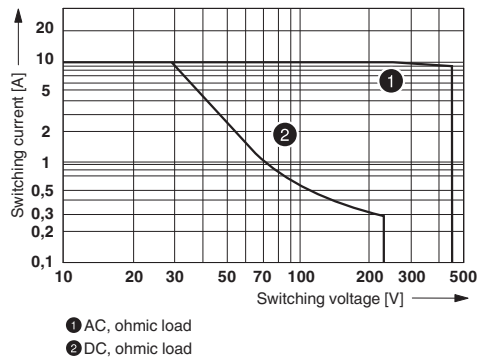
DC coils

Diagram

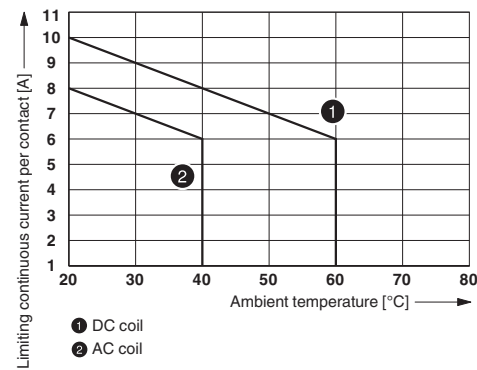


Operating voltage range

Diagram

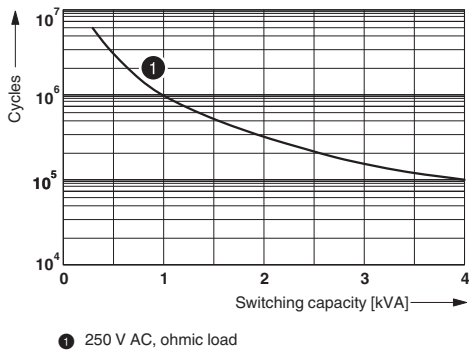


Diagram



Interrupting rating

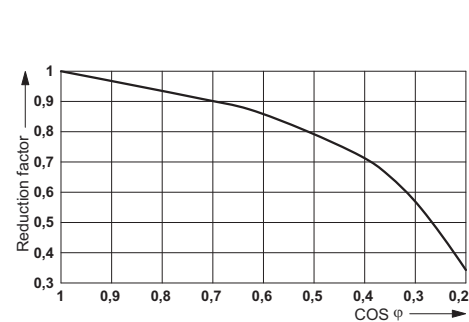
Diagram



Electrical service life

Contact derating

Diagram



Service life reduction factor

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Articles in set

Relay socket - RIF-4-BSC/3X21 - 2900960



RIF-4... relay base, for high-power relay with 2 or 3 changeover contacts or 3 N/O contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

Single relay - REL-PR3- 24DC/3X21 - 2903702



Plug-in high-power relay with power contacts, 3 PDTs, coil voltage: 24 V DC

Plug-in module - RIF-LDP-12-24 DC - 2900939



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with freewheeling diode and yellow LED, polarity: A1+, A2-, input voltage: 12 - 24 V DC $\pm 20\%$

Retaining bracket - RIF-RH-4 - 2900956



Relay retaining bracket, with holder for marking material, suitable for RIF-4 relay base, for high-power relay