

RIF-4-RPT-LV-120AC/3X21 - Relay Module



2903277

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Preassembled relay module with Push-in connection, consisting of: relay base, power contact relay, plug-in display/interference suppression module, and retaining bracket. Contact switching type: 3 changeover contacts. Input voltage: 120 V AC

Product Description

The pluggable electromechanical and solid-state relays in the RIFLINE complete product range and the base are recognized and approved in accordance with UL 508. The relevant approvals can be called up at the individual components in question.

Commercial Data

| | |
|--------------------------------------|---------------------|
| Item number | 2903277 |
| Packing unit | 5 pc |
| Minimum order quantity | 5 pc |
| Sales Key | CK6 |
| Product Key | CK652C |
| Catalog Page | Page 351 (C-5-2019) |
| GTIN | 4046356731669 |
| Weight per Piece (including packing) | 210.4 g |
| Weight per Piece (excluding packing) | 210.4 g |
| Customs tariff number | 85364900 |
| Country of origin | CN |

Technical Data

Product properties

| | |
|-------------------------|-----------------------|
| Product type | Relay Module |
| Product family | RIFLINE complete |
| Application | Universal |
| Operating mode | 100% operating factor |
| Mechanical service life | approx. 10^7 cycles |

Insulation characteristics

| | |
|------------|------------------|
| Insulation | Basic insulation |
|------------|------------------|

Insulation characteristics

| | |
|----------------------|------------------|
| Insulation | Basic insulation |
| Overvoltage category | III |
| Pollution degree | 2 |

Electrical properties

| | |
|---|--|
| Maximum power dissipation for nominal condition | 2.88 W |
| Test voltage (Winding/contact) | 2.5 kV _{rms} (50 Hz, 1 min., winding/contact) |
| Test voltage (Contact/contact) | 2.5 kV _{rms} (50 Hz, 1 min., contact/contact) |
| Rated insulation voltage | 250 V AC |
| Rated surge voltage | 4 kV |

Input data

Coil side

| | |
|---|-------------------------------|
| Nominal input voltage U_N | 120 V AC |
| Input voltage range | 102 V AC ... 132 V AC (20 °C) |
| Input voltage range in reference to U_N | see diagram |
| Mains frequency | 50/60 Hz |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at U_N | 24 mA |
| Typical response time | 5 ms ... 25 ms |
| Typical release time range | 5 ms ... 20 ms |
| Coil voltage | 120 V AC |
| Protective circuit | Varistor |
| Operating voltage display | Yellow LED |

Output data

Switching

| | |
|------------------------|-----------------------|
| Contact switching type | 3 changeover contacts |
| Type of switch contact | Single contact |

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| | |
|--|--|
| Contact material | AgNi |
| Maximum switching voltage | 440 V AC |
| | 250 V DC |
| Minimum switching voltage | 10 V (24 mA) |
| Limiting continuous current | 8 A (see diagram) |
| Maximum inrush current | 50 A (20 ms, N/O contacts) |
| Min. switching current | 10 mA (24 V) |
| Interrupting rating (ohmic load) max. | 216 W (24 V DC) |
| | 124 W (48 V DC) |
| | 108 W (60 V DC) |
| | 52 W (110 V DC) |
| | 70 W (220 V DC) |
| | 2250 VA (250 V AC) |
| | 4000 VA (440 V AC) |
| 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) |
| Utilization category CB Scheme (IEC 60947-5-1) | AC15, 1.5 A/240 V (N/O contact) |
| | DC13, 2 A/240 V (N/O contact) |

Connection data

Coil side

| | |
|----------------------------------|---|
| Connection method | Push-in connection |
| Stripping length | 8 mm |
| Conductor cross section rigid | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross section flexible | 0.14 mm ² ... 1.5 mm ² |
| | 0.14 mm ² ... 1.5 mm ² (Ferrule with plastic sleeve) |
| | 0.14 mm ² ... 1 mm ² (Ferrule with plastic sleeve, two conductors on double terminal block) |
| Conductor cross section AWG | 26 ... 16 (solid) |
| | 26 ... 16 (flexible) |

Contact side

| | |
|----------------------------------|---|
| Connection method | Push-in connection |
| Stripping length | 10 mm |
| Conductor cross section rigid | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.14 mm ² ... 2.5 mm ² |
| | 0.14 mm ² ... 2.5 mm ² (Ferrule with plastic sleeve) |
| | 0.14 mm ² ... 1 mm ² (Ferrule with plastic sleeve, two conductors on double terminal block) |
| Conductor cross section AWG | 26 ... 14 (solid) |
| | 26 ... 14 (flexible) |

Dimensions

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Drill hole

| | |
|----------|--------|
| Diameter | 3.2 mm |
| Width | 43 mm |
| Height | 111 mm |
| Depth | 90 mm |

Material specifications

| | |
|--|--------------|
| Flammability rating according to UL 94 | V2 (Housing) |
|--|--------------|

Environmental and real-life conditions

Ambient conditions

| | |
|---|-------------------|
| Degree of protection (Relay base) | IP20 (Relay base) |
| Degree of protection (Relay) | RT I (Relay) |
| Ambient temperature (operation) | -40 °C ... 40 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Approvals

Corrosive gas test

| | |
|----------------|----------------------------|
| Identification | ISA-S71.04. G3 Harsh Group |
| | EN 60068-2-60 |

Standards and regulations

| | |
|-----------------------|---------------|
| Standards/regulations | IEC 60947-5-1 |
|-----------------------|---------------|

Mounting

| | |
|-----------------------|---------------------------|
| Mounting type | DIN rail mounting |
| Assembly instructions | in rows with zero spacing |
| Mounting position | any |

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