# Relay Module - PR2-RSC3-LV-120AC/4X21AU - 2834740

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The figure shows the 24 V DC version

Preassembled relay modules with screw connection, consisting of: relay base, industrial relay with integrated LED and engage/disengage manual actuate lever, varistor module, and retaining bracket. Input voltage: 120 V AC, four PDTs with gold-plated contacts, 5 A

## Why buy this product

- Relay with detectable manual operation and status LED
- With DC types, freewheeling diode is integrated in relay
- Mechanical switch position indicator
- Logical contact arrangement thanks to 1/3-level relay base
- 4 PDT types with multi-layer gold contacts

RoHS

## Key Commercial Data

| | |
|---|---|
| Packing unit | 5 STK |
| GTIN | 4 046356 044561 |
| GTIN | 4046356044561 |

## Technical data

### Note

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

### Dimensions

| | |
|---|---|
| Width | 27 mm |
| Height | 78.5 mm |
| Depth | 86 mm |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |

# Relay Module - PR2-RSC3-LV-120AC/4X21AU - 2834740

## Technical data

### Coil side

| | |
|---|---|
| Nominal input voltage $U_N$ | 120 V AC |
| Typical input current at $U_N$ | 11 mA (at 50 Hz) |
| | 9 mA (At 60 Hz) |
| Typical response time | 4 ms ... 10 ms |
| Typical release time range | 3 ms ... 12 ms |
| Protective circuit | Varistor |
| Operating voltage display | LED red |
| Power dissipation for nominal condition | 1.32 W |

### Contact side

| | |
|---|---|
| Contact type | 4 PDTs |
| Type of switch contact | Single contact |
| Contact material | AgNi, hard gold-plated |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 1 V |
| Min. switching current | 1 mA |
| Maximum inrush current | 12 A (15 ms) |
| Limiting continuous current | 5 A |
| Interrupting rating (ohmic load) max. | 120 W (at 24 V DC) |
| | 100 W (at 48 V DC) |
| | 78 W (at 60 V DC) |
| | 55 W (at 110 V DC) |
| | 80 W (at 220 V DC) |
| | 1250 VA (for 250 V AC) |

### General

| | |
|---|---|
| Test voltage relay winding/relay contact | 2 kV (50 Hz, 1 min.) |
| Test voltage relay contact/relay contact | 2 kV (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Degree of protection | RT I (Relay) |
| Mechanical service life | 5x $10^7$ cycles |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |

### Connection data input side

| | |
|---|---|
| Connection name | Coil side |
| Connection method | Screw connection |
| Stripping length | 7 mm |
| Conductor cross section solid | 0.14 mm² ... 2.5 mm² |
| Conductor cross section flexible | 0.14 mm² ... 2.5 mm² |
| Conductor cross section AWG | 26 ... 14 |

### Connection data output side

# Relay Module - PR2-RSC3-LV-120AC/4X21AU - 2834740

## Technical data

### Connection data output side

| | |
|---|---|
| Connection name | Contact side |
| Connection method | Screw connection |
| Stripping length | 7 mm |
| Conductor cross section solid | 0.14 mm² ... 2.5 mm² |
| Conductor cross section flexible | 0.14 mm² ... 2.5 mm² |
| Conductor cross section AWG | 26 ... 14 |

### Standards and Regulations

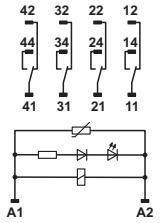
| | |
|---|---|
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| Degree of pollution | 2 |
| Overvoltage category | II |

### Environmental Product Compliance

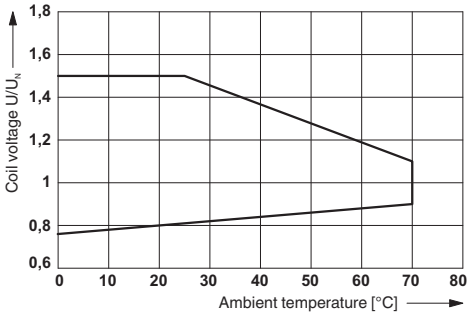
| | |
|---|---|
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration” |

## Drawings

Circuit diagram



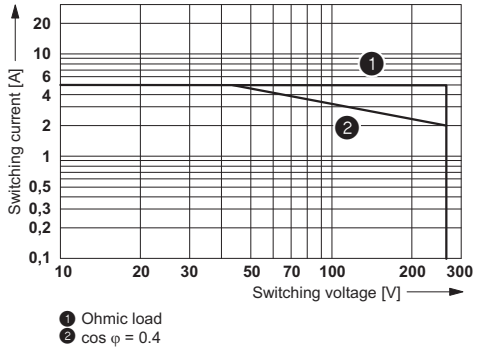

Diagram




Operating voltage range of relay $T_u$=$T_{coil}$

# Relay Module - PR2-RSC3-LV-120AC/4X21AU - 2834740

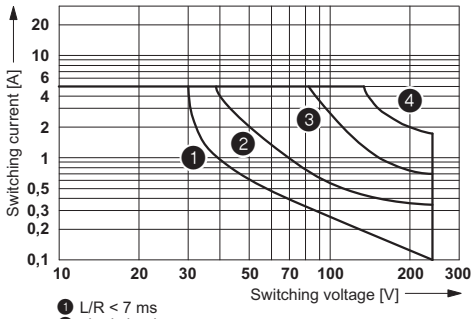
Diagram




1 Ohmic load
2 cos φ = 0.4

AC interrupting rating

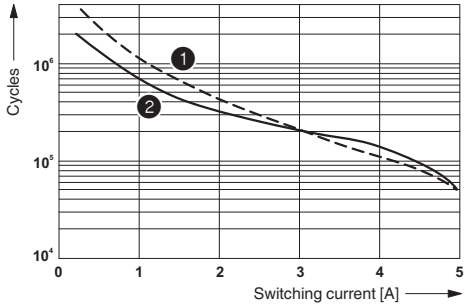
Diagram




1 L/R < 7 ms
2 ohmic load
3 ohmic load, 2 contacts in series
4 ohmic load, 4 contacts in series

DC interrupting rating

Diagram




1 250 V AC, ohmic load
2 30 V DC, ohmic load

Electrical service life

## Articles in set

Relay base - PR2-BSC3/4X21 - 2833576

Relay base PR2-B, for industrial relay REL-IR with 2 or 4 PDT, 1/3-level version, screw connections, connection facility for input/interference suppression modules, for mounting on NS 35/7.5

Single relay - REL-IR/L-120AC/4X21AU - 2834135

Plug-in industrial relay with power contacts and additional hard gold plating, 4 PDTs, test button, status LED, mechanical switch setting display, coil voltage: 120 V AC

# Relay Module - PR2-RSC3-LV-120AC/4X21AU - 2834740

## Articles in set

Plug-in module - V-120-230UC - 2833880

Plug-in module, with varistor, input voltage: 120 ... 230 V AC/DC ±20 %

Retaining bracket - EL2-P35 - 2833592

Relay retaining bracket, with eject function and integrated equipment marking area (8 x 25 mm), to suit relay base PR2, for 35 mm high industrial relay

Marker labels - MP 2 - 2833644

Equipment marker, labeling surface 9 x 25 mm

## Approvals

### Approvals

Approvals

EAC

Ex Approvals

### Approval details

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

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