

Relay Module - PR2-RSP3-LV-230AC/2X21 - 2834711

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Preassembled relay modules with spring-cage connection, consisting of a relay base, industrial relay with integrated LED and engage/disengage manual actuate lever, varistor protective module, and retaining bracket. Input voltage: 230 V AC, two PDTs, 10 A

The figure shows the 24 V DC version

Your advantages

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



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 5 pc |
| GTIN |  4 017918 996284 |
| GTIN | 4017918996284 |

Technical data

Note

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

Dimensions

| | |
|--------|-------|
| Width | 31 mm |
| Height | 95 mm |
| Depth | 84 mm |

Ambient conditions

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

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Technical data

Coil side

| | |
|---|-----------------|
| Nominal input voltage U_N | 230 V AC |
| Typical input current at U_N | 5 mA (at 50 Hz) |
| | 4 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 | 1.15 W |

Contact side

| | |
|---------------------------------------|------------------------|
| Contact type | 2 PDT |
| Type of switch contact | Single contact |
| Contact material | Ag |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V |
| Min. switching current | 1 mA |
| Maximum inrush current | 20 A (15 ms) |
| Limiting continuous current | 10 A |
| Interrupting rating (ohmic load) max. | 240 W (at 24 V DC) |
| | 160 W (at 48 V DC) |
| | 110 W (at 60 V DC) |
| | 72 W (at 110 V DC) |
| | 130 W (at 220 V DC) |
| | 2500 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 |
| Mechanical service life | 5×10^7 cycles |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |

Connection data input side

| | |
|----------------------------------|---|
| Connection name | Coil side |
| Connection method | Spring-cage connection |
| Stripping length | 12 mm |
| Conductor cross section solid | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross section AWG | 24 ... 16 |

Standards and Regulations

| | |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
|-----------------------|-----------|

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Technical data

Standards and Regulations

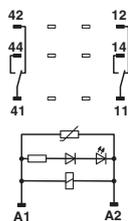
| | |
|----------------------|----------|
| | EN 50178 |
| Degree of pollution | 3 |
| Overvoltage category | II |

Environmental Product Compliance

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

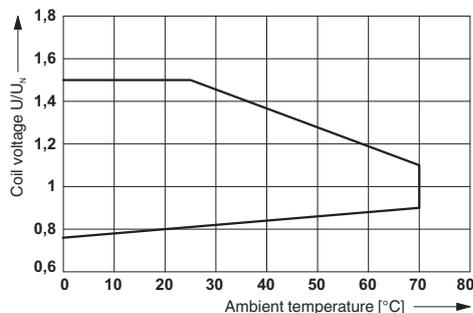
Drawings

Circuit diagram



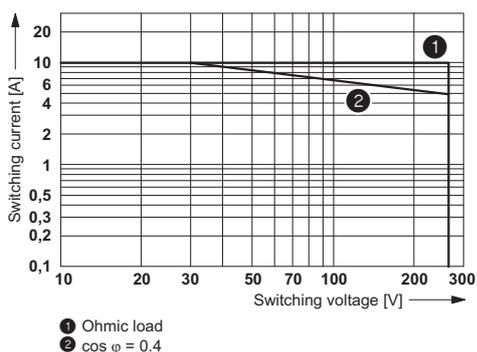
) The contacts 21, 22, 24 are connected to the relay base connections 41, 42, 44.

Diagram



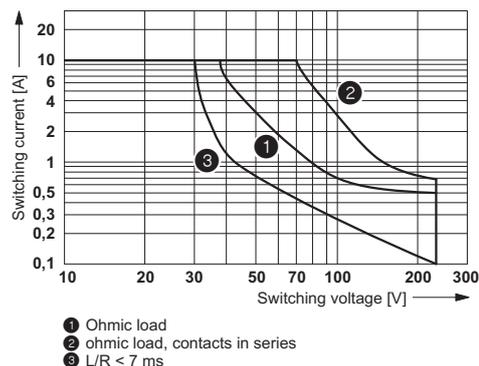
Operating voltage range of relay $T_u = T_{coil}$

Diagram



AC interrupting rating

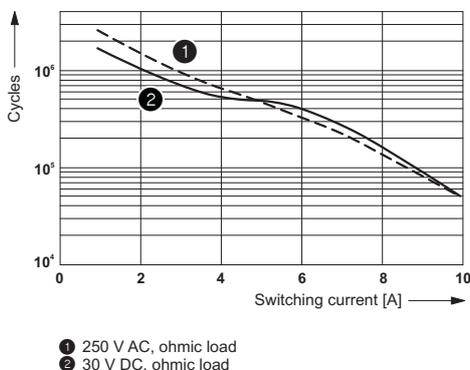
Diagram



DC interrupting rating

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Diagram



Electrical service life

Articles in set

Relay base - PR2-BSP3/4X21 - 2833589



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

Single relay - REL-IR/L-230AC/2X21 - 2834070



Plug-in industrial relay with power contacts, 2 PDTs, test button, status LED, mechanical switch setting display, input voltage: 230 V AC

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

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Articles in set

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