

Relay Module - PR1-RSC3-LV-230AC/2X21 - 2834517

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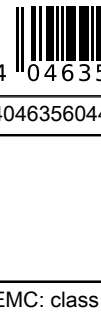
Preassembled relay modules with screw connection, consisting of: relay base plug-in miniature power relay with power contacts, plug-in display/interference suppression module and relay retaining bracket. Input voltage: 230 V AC, contacts: 2 PDT, 8 A

Why buy this product

- Safe isolation between coil and contact side
- Logical contact arrangement thanks to 1/3-level relay base
- Operational reliability thanks to sealed relay



Key Commercial Data

| | |
|--------------|--|
| Packing unit | 5 STK |
| GTIN |  4 046356 044400 |
| GTIN | 4046356044400 |

Technical data

Note

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

Dimensions

| | |
|--------|---------|
| Width | 16 mm |
| Height | 78.5 mm |
| Depth | 71 mm |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C |

Coil side

| | |
|--------------------------------|-----------------|
| Nominal input voltage U_N | 230 V AC |
| Typical input current at U_N | 6 mA (at 50 Hz) |

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Coil side

| | |
|---|-------------------|
| | 5.5 mA (At 60 Hz) |
| Typical response time | 3 ms ... 12 ms |
| Typical release time range | 2 ms ... 22 ms |
| Protective circuit | Varistor |
| Operating voltage display | Yellow LED |
| Power dissipation for nominal condition | 1.38 W |

Contact side

| | |
|--|------------------------|
| Contact type | 2 PDT |
| Type of switch contact | Single contact |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V (at 10 mA) |
| Min. switching current | 10 mA (At 5 V) |
| Maximum inrush current | 15 A (300 ms) |
| Limiting continuous current | 8 A |
| Interrupting rating (ohmic load) max. | 2000 W (for 250 V AC) |
| | 44 W (at 110 V DC) |
| | 60 W (at 220 V DC) |
| | 190 W (at 24 V DC) |
| | at 440 V AC |
| | 85 W (at 48 V DC) |
| | 60 W (at 60 V DC) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 2 A (at 24 V, DC13) |
| | 0.2 A (at 250 V, DC13) |
| | 3 A (at 24 V, AC15) |
| | 3 A (at 120 V, AC15) |
| | 3 A (at 250 V, AC15) |

General

| | |
|--|---------------------------|
| Test voltage relay winding/relay contact | 4 kV (50 Hz, 1 min.) |
| Test voltage relay contact/relay contact | 2.5 kV (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Mechanical service life | 3x 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 | 8 mm |
| Screw thread | M3 |

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Connection data input side

| | |
|----------------------------------|--|
| Conductor cross section solid | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 26 ... 14 |

Connection data output side

| | |
|----------------------------------|--|
| Connection name | Contact side |
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section solid | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 26 ... 14 |

Standards and Regulations

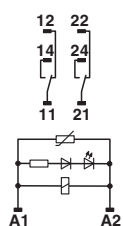
| | |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| Degree of pollution | 3 |
| Overvoltage category | III |

Environmental Product Compliance

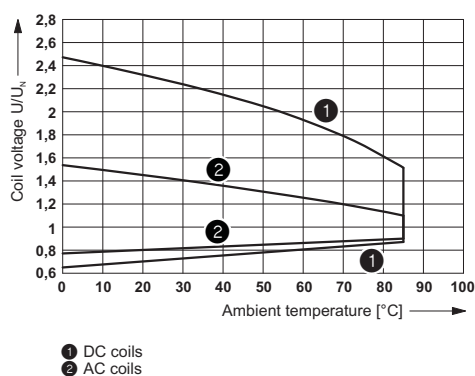
| | |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Circuit diagram



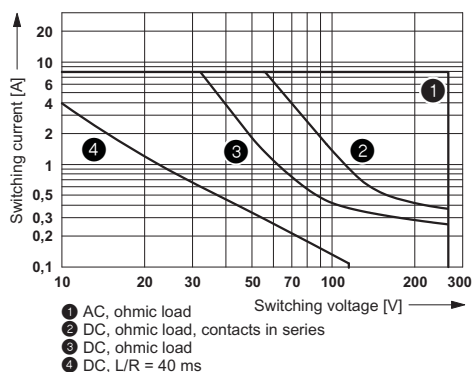
Diagram



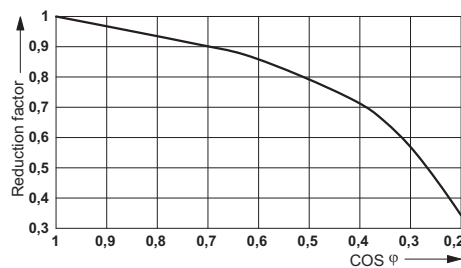
Operating voltage range of the relay

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Diagram



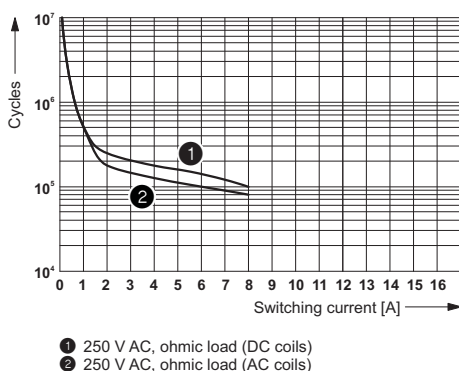
Diagram



Interrupting rating

Service life reduction factor with various cos phi

Diagram



Electrical service life

Articles in set

Relay base - PR1-BSC3/2X21 - 2833521



Relay base PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, screw connections, connection facility for input/interference suppression modules

Single relay - REL-MR-230AC/21-21 - 2961451



Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 230 V AC

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Articles in set

Plug-in module - LV-120-230AC/110DC - 2833738



Plug-in module, with varistor and yellow LED, input voltage: 120 ... 230 V AC / 110 V DC \pm 20 %

Retaining bracket - EL1-P16 - 2833547



Relay retaining bracket, with eject function and integrated equipment marking area (7.5 x 15 mm), to suit relay base PR1, for 16 mm high miniature power relay and solid-state relay

Marker labels - MP 1 - 2833631



Equipment marker, labeling surface 6 x 15 mm

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC



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