

Relay Module - PR1-RSP3-LV-230AC/2X21 - 2834591

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Preassembled relay modules with spring-cage connection, consisting of: Relay socket 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

Product Features

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



Key commercial data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 pc |
| Minimum order quantity | 5 pc |
| Weight per Piece (excluding packing) | 66.36 GRM |
| Custom tariff number | 85364900 |
| Country of origin | Germany |

Technical data

Note

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

Dimensions

| | |
|--------|-------|
| Width | 16 mm |
| Height | 97 mm |
| Depth | 72 mm |

Ambient conditions

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

Coil side

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Technical data

Coil side

| | |
|--------------------------------|-------------------|
| Nominal input voltage U_N | 230 V AC |
| Typical input current at U_N | 6 mA (at 50 Hz) |
| | 5.5 mA (At 60 Hz) |
| Typical response time | 3 ms ... 12 ms |
| Typical release time range | 2 ms ... 22 ms |
| Operating voltage display | Yellow LED |
| Protective circuit | Varistor |

Contact side

| | |
|--|------------------------|
| Contact type | 2 PDT |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V (at 10 mA) |
| Maximum inrush current | 15 A (300 ms) |
| Min. switching current | 10 mA (At 5 V) |
| 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 | 3×10^7 cycles |
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| | IEC 62103 |
| Pollution degree | 3 |

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Technical data

General

| | |
|------------------------|---------------------------|
| Surge voltage category | III |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |

Connection data

| | |
|--|------------------------|
| Connection method | Spring-cage connection |
| Stripping length | 10 mm |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 1.5 mm ² |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 1.5 mm ² |
| Conductor cross section AWG/kcmil max | 16 |
| Conductor cross section AWG/kcmil min. | 24 |

Articles in set

Relay socket - PR1-BSP3/2X21 - 2833534



Relay socket 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, spring-cage 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

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



Plug-in module, for mounting on PR1 and PR2, with varistor and yellow LED, input voltage: 120 - 230 V AC/110 V DC ± 20%

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Articles in set

Relay retaining bracket - EL1-P16 - 2833547



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

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371603 |
| eCl@ss 5.1 | 27371603 |
| eCl@ss 6.0 | 27371603 |
| eCl@ss 7.0 | 27371603 |
| eCl@ss 8.0 | 27371603 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001456 |
| ETIM 3.0 | EC001456 |
| ETIM 4.0 | EC001456 |
| ETIM 5.0 | EC001456 |

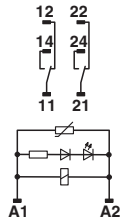
UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211917 |
| UNSPSC 7.0901 | 39121516 |
| UNSPSC 11 | 39121516 |
| UNSPSC 12.01 | 39121516 |
| UNSPSC 13.2 | 39121516 |

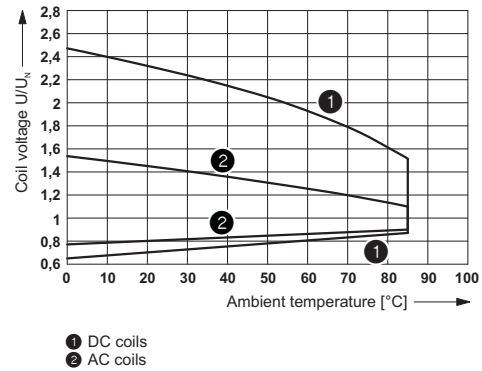
Drawings

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Circuit diagram

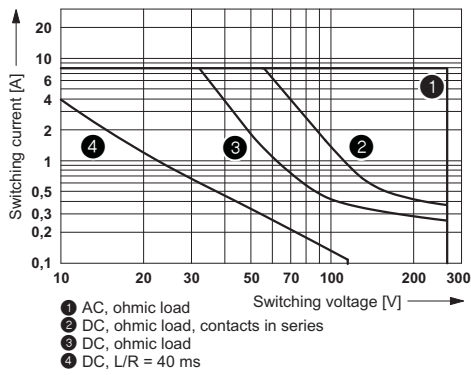


Diagram

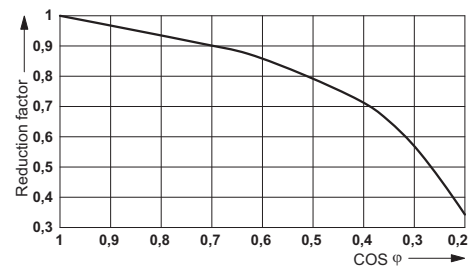


Operating voltage range of the relay

Diagram



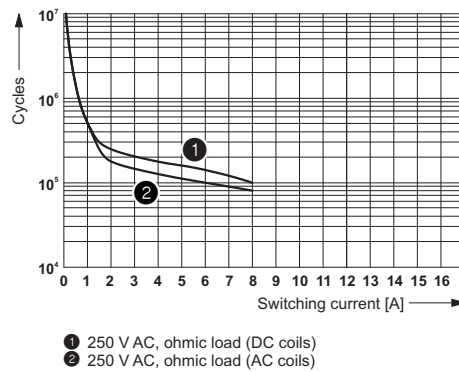
Diagram



Interrupting rating

Service life reduction factor with various cos phi

Diagram



Electrical service life

