

Relay Module - PR2-RSC3-LDP-24DC/4X21AU - 2834724

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Preassembled relay modules with screw connection, consisting of: relay base, industrial relay with integrated LED, free-wheeling diode and engage/disengage manual actuate lever, and retaining bracket. Input voltage: 24 V DC, four PDTs with gold-plated contacts, 5 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
- 4 PDT types with multi-layer gold contacts
- Logical contact arrangement thanks to 1/3-level relay base



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 5 pc |
| GTIN |  4 046356 044554 |
| GTIN | 4046356044554 |

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 |

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Technical data

Coil side

| | |
|---|---------------|
| Nominal input voltage U_N | 24 V DC |
| Input voltage range in reference to U_N | see diagram |
| Typical input current at U_N | 38 mA |
| Typical response time | 13 ms |
| Typical release time | 14 ms |
| Protective circuit | Damping diode |
| Operating voltage display | Green LED |
| Power dissipation for nominal condition | 0.91 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. | 1250 VA (for 250 V AC) |
| | 120 W (at 24 V DC) |
| | 110 W (at 48 V DC) |
| | 78 W (at 60 V DC) |
| | 55 W (at 110 V DC) |
| | 77 W (at 220 V DC) |

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 |
| Service life, electrical | see diagram |
| 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 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

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Technical data

Connection data output side

| | |
|----------------------------------|--|
| Connection name | Contact side |
| Connection method | Screw connection |
| Stripping length | 7 mm |
| 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 |
| Pollution degree | 2 |
| Overvoltage category | II |

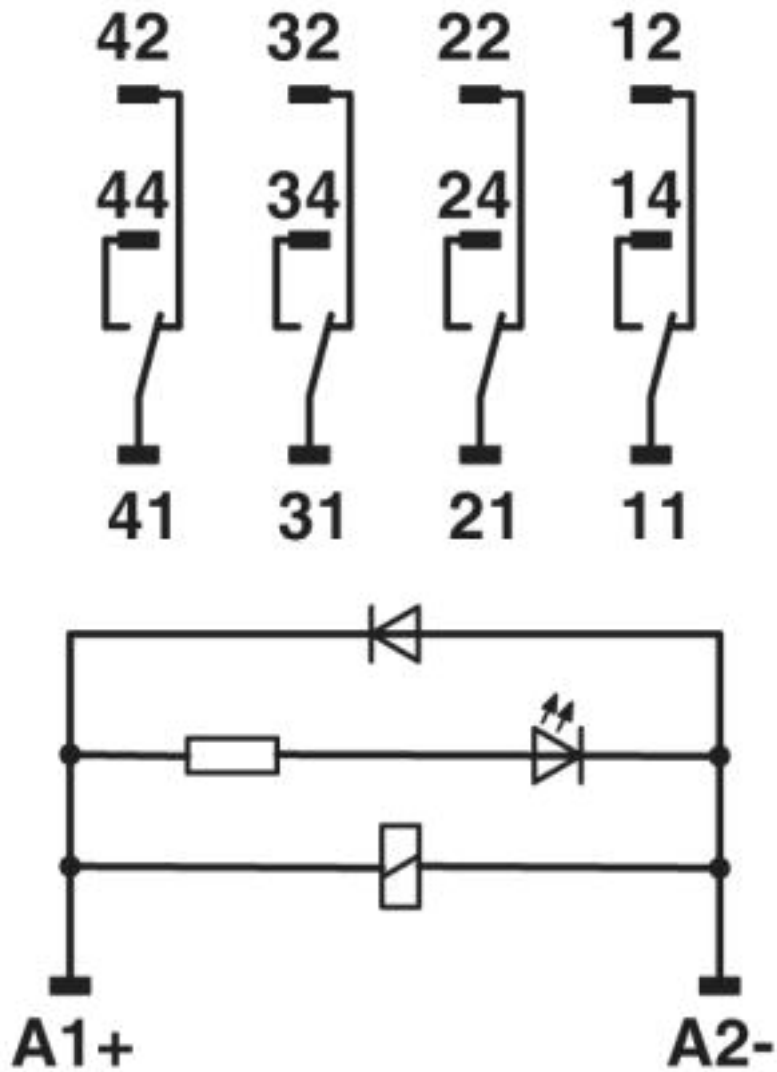
Environmental Product Compliance

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

Drawings

Relay Module - PR2-RSC3-LDP-24DC/4X21AU - 2834724

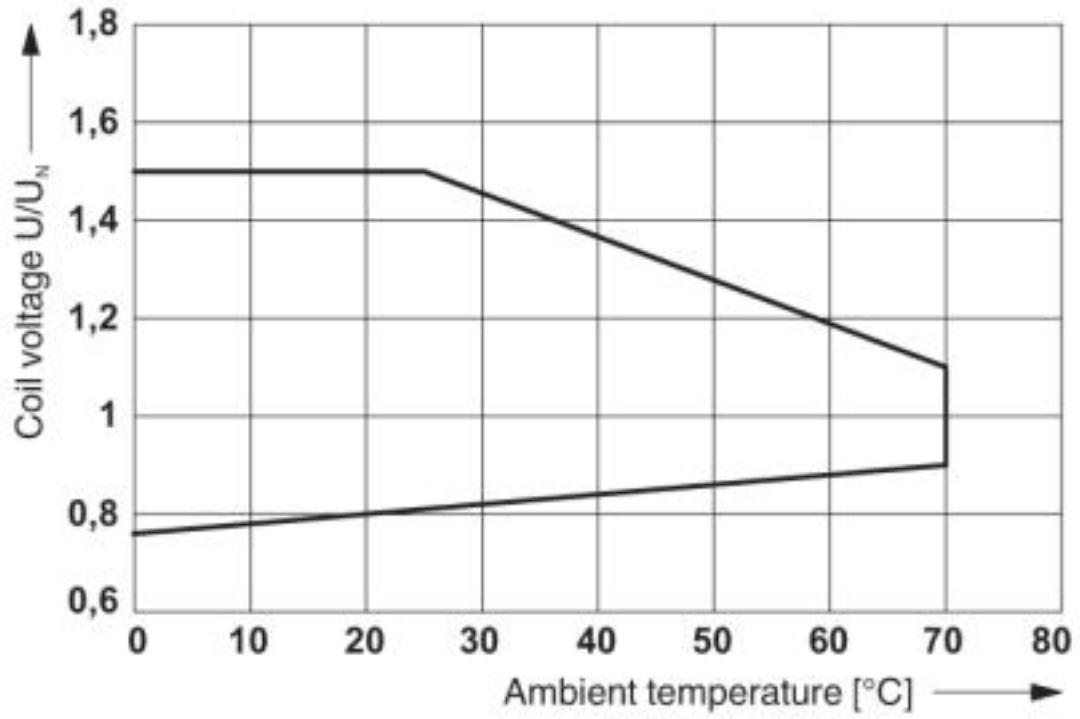
Circuit diagram



DC coils

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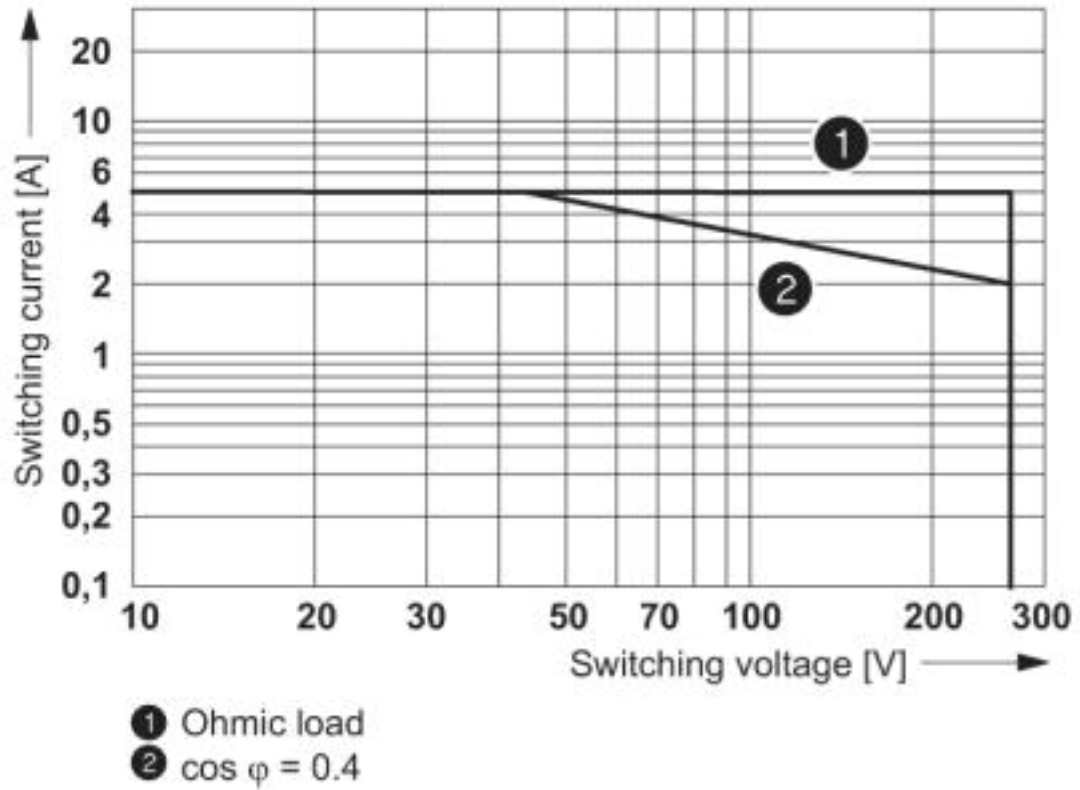
Diagram



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

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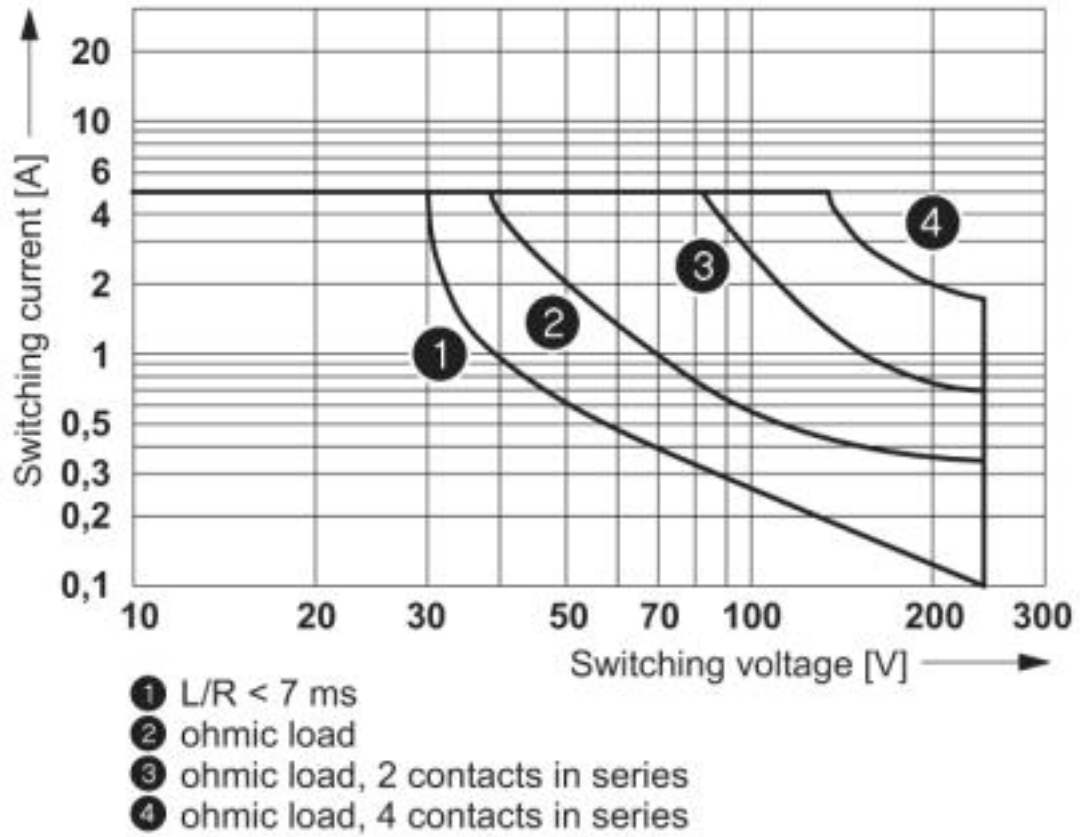
Diagram



AC interrupting rating

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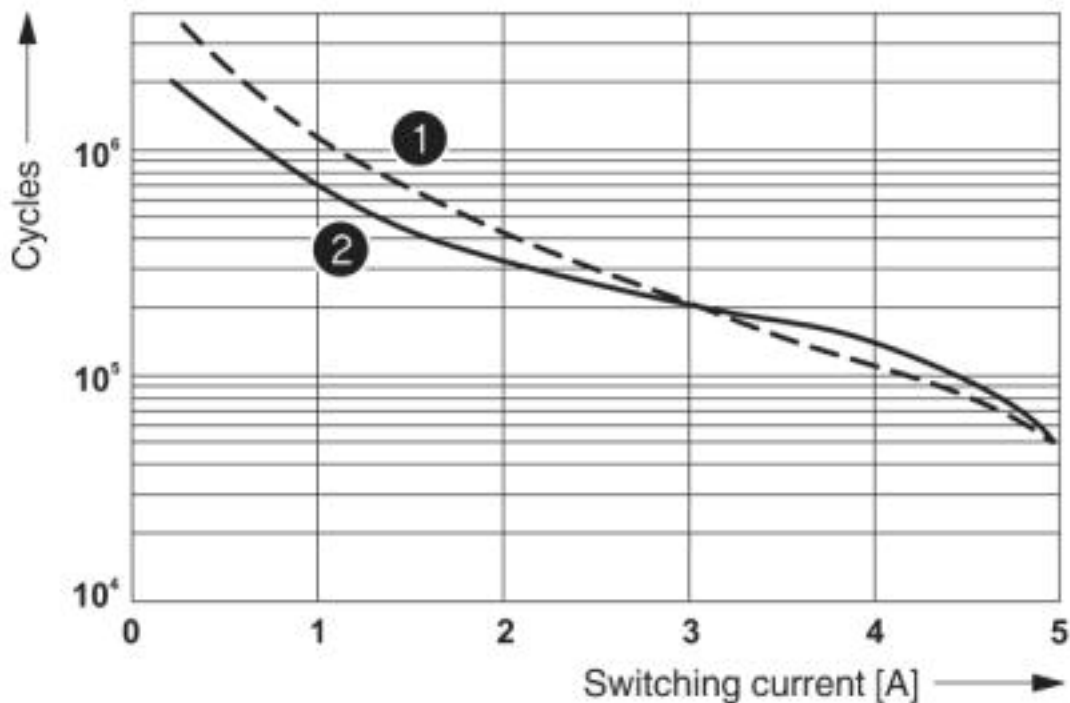
Diagram



DC interrupting rating

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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/LDP- 24DC/4X21AU - 2834096



Pluggable industrial relays with power contacts and additional hard gold plating, 4 PDT, test button, status LED, free-wheeling diode, mechanical switch position indicator, polarity A1+, A2-, coil voltage: 24 V DC

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Articles in set

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 / EAC

Ex Approvals

Approval details

| | | |
|-----|------------|-----------------|
| EAC | EAC | TR_TS_D_00573_c |
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| | | |
|-----|------------|-----------------|
| EAC | EAC | TR_TS_S_00010_c |
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