

PR2-RSP3-LV-230AC/2X21 - Relay module



2834711

<https://www.phoenixcontact.com/us/products/2834711>

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Pre-assembled 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, 2 changeover contacts, 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-changeover contact types with multi-layer gold contacts

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2834711 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C463 |
| Product key | DK632A |
| GTIN | 4017918996284 |
| Weight per piece (including packing) | 141.14 g |
| Weight per piece (excluding packing) | 125.66 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |

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Set consists of

PR2-BSP3/4X21 - Relay base

2833589

<https://www.phoenixcontact.com/us/products/2833589>



Relay base PR2-B, for industrial relay REL-IR with 2 or 4 changeover contacts, 1/3-level design, spring-cage connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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

2834070

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Plug-in industrial relays with power contacts, 2 changeover contacts, test button, status LED, mechanical switching position indicator, input voltage: 230 V AC

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V-120-230UC - Plug-in module

2833880

<https://www.phoenixcontact.com/us/products/2833880>



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

EL2-P35 - Retaining bracket

2833592

<https://www.phoenixcontact.com/us/products/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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Technical data

Notes

Utilization restriction

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

Product properties

| | |
|-------------------------|---------------------------|
| Product type | Relay Module |
| Application | Universal |
| Operating mode | 100% operating factor |
| Mechanical service life | 5x 10 ⁷ cycles |

Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Pollution degree | 3 |

Data management status

| | |
|------------------------------|------------|
| Date of last data management | 12.09.2025 |
|------------------------------|------------|

Electrical properties

| | |
|---|--|
| Service life electrical | see diagram |
| Maximum power dissipation for nominal condition | 1.15 W |
| Test voltage (Winding/contact) | 2 kV AC (50 Hz, 1 min., winding/contact) |
| Test voltage (Contact/contact) | 2 kV AC (50 Hz, 1 min., contact/contact) |

Input data

Coil side

| | |
|--------------------------------|------------------------------------|
| Nominal input voltage U_N | 230 V AC |
| Input voltage range | 179.4 V AC ... 345 V AC |
| Drive and function | monostable |
| 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 |

Output data

Switching

| | |
|------------------------|-----------------------|
| Contact switching type | 2 changeover contacts |
| Type of switch contact | Single contact |
| Contact material | Ag |

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| | |
|---------------------------------------|------------------------|
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V |
| Limiting continuous current | 10 A |
| Maximum inrush current | 20 A (15 ms) |
| Min. switching current | 1 mA |
| 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) |

Connection data

Coil side

| | |
|----------------------------------|---|
| Connection method | Spring-cage connection |
| Stripping length | 12 mm |
| Conductor cross-section rigid | 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 |

Contact side

| | |
|----------------------------------|---|
| Connection method | Spring-cage connection |
| Stripping length | 12 mm |
| Conductor cross-section rigid | 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 |

Dimensions

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

Material specifications

| | |
|-------|------------------|
| Color | green (RAL 6021) |
|-------|------------------|

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

| | |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
| | EN 50178 |

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Mounting

| | |
|-------------------|---------------------------|
| Mounting type | DIN rail mounting |
| Assembly note | in rows with zero spacing |
| Mounting position | any |

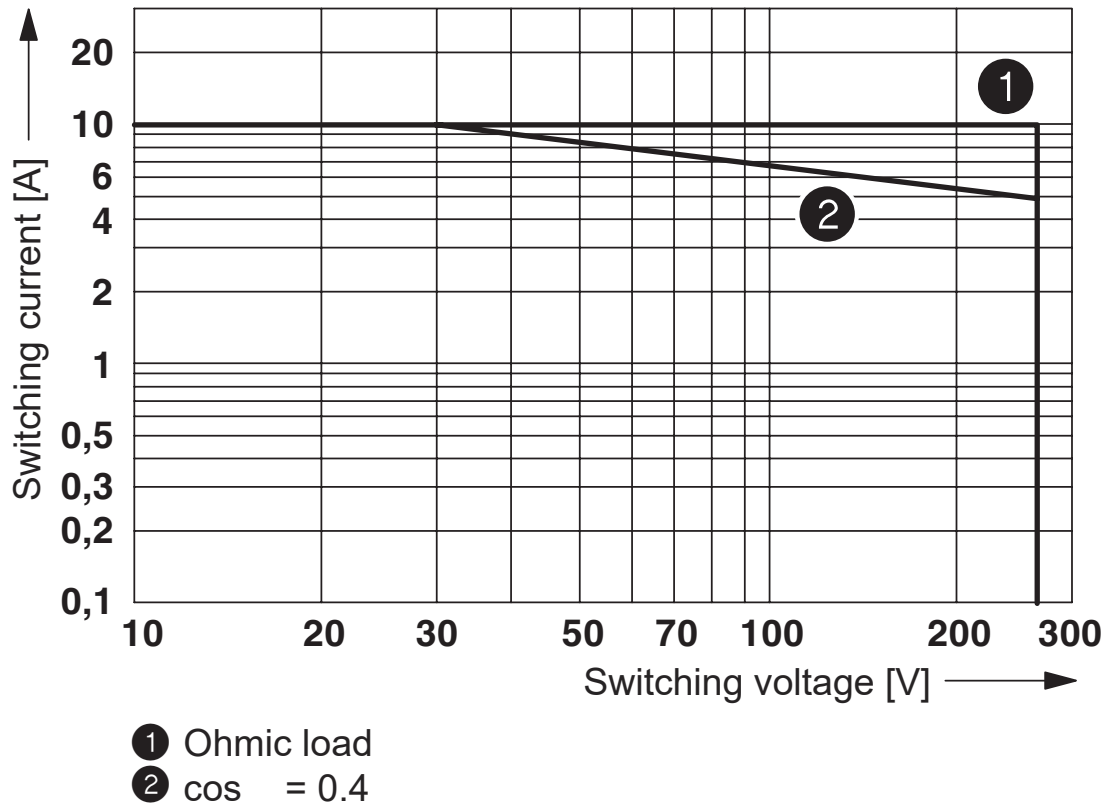
Drawings

Diagram

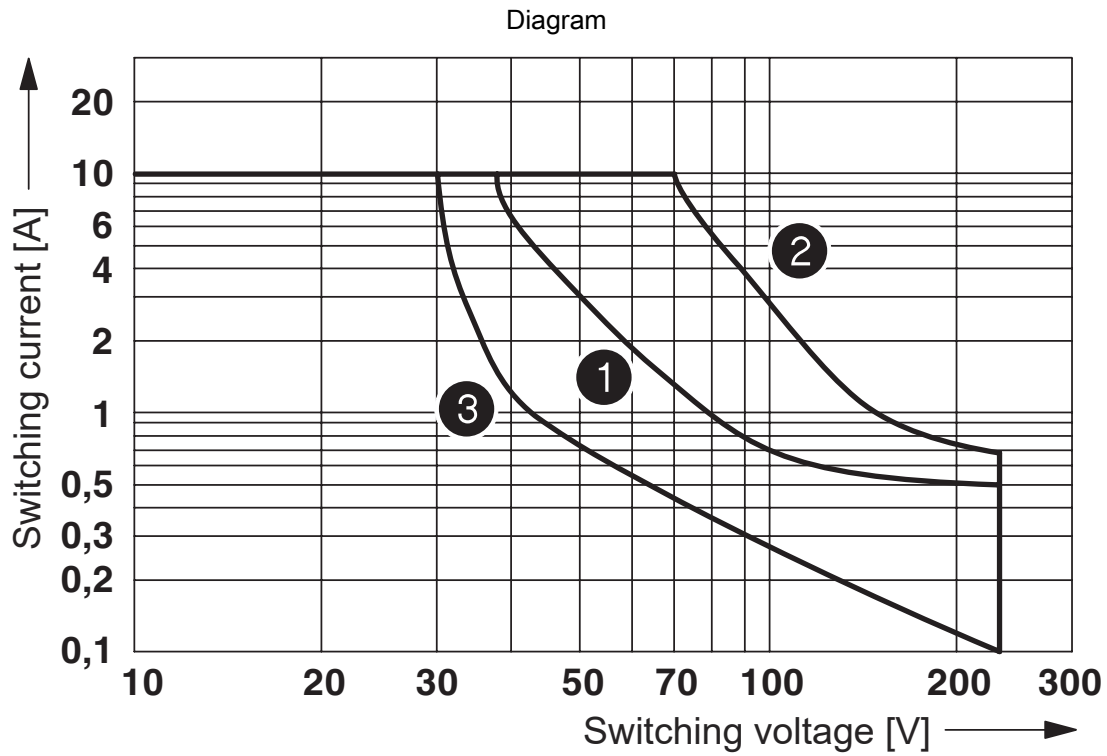


Operating voltage range of relay $T_u=T_{coil}$

Diagram

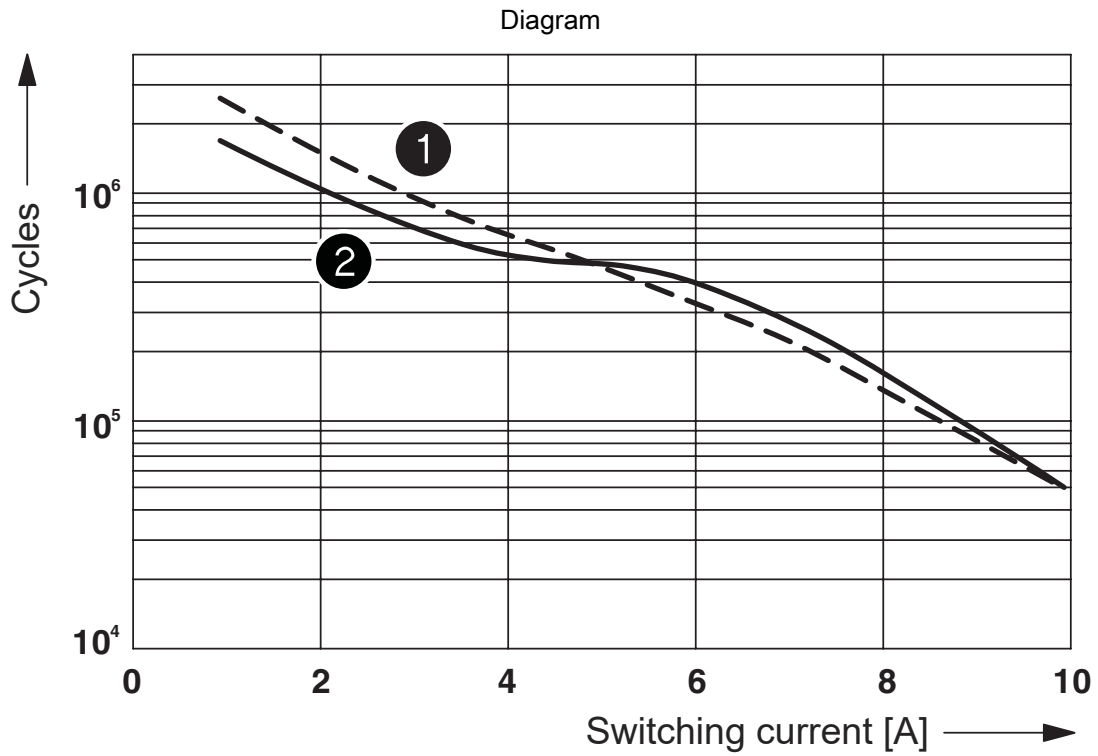


AC interrupting rating



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

DC interrupting rating



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

Electrical service life

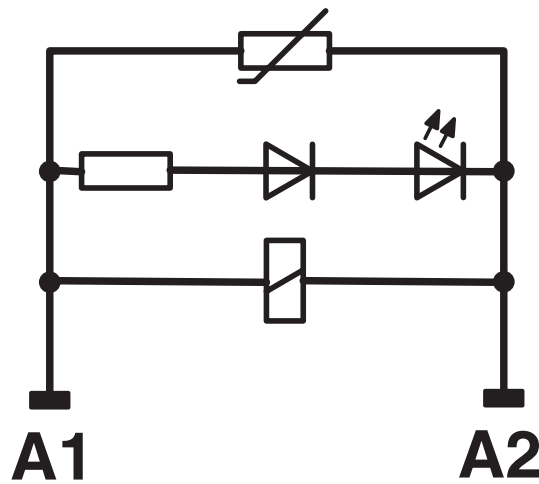
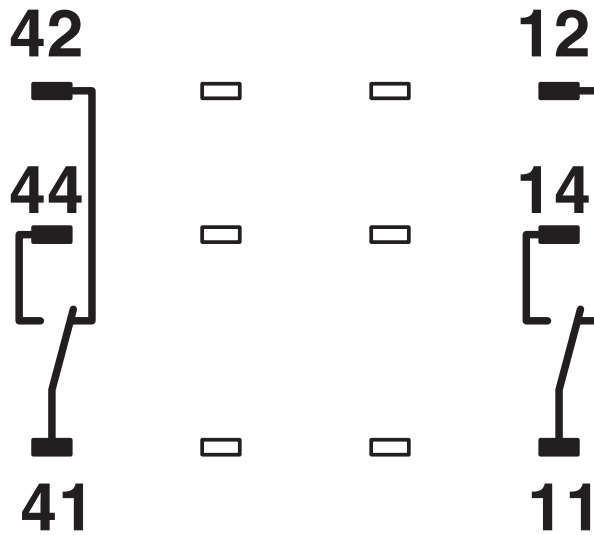
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Circuit diagram



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

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Environmental product compliance

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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