

# PR2-RSP3-LV- 24AC/2X21 - Relay module



2834698

<https://www.phoenixcontact.com/us/products/2834698>

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The figure shows the 24 V DC version

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: 24 V AC, 2 changeover contacts, 10 A

## 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                          | 2834698                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C463                           |
| Product key                          | DK632A                         |
| GTIN                                 | 4017918996260                  |
| Weight per piece (including packing) | 125 g                          |
| Weight per piece (excluding packing) | 125 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

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### REL-IR/L- 24AC/2X21 - Single relay

2834054

<https://www.phoenixcontact.com/us/products/2834054>



Plug-in industrial relays with power contacts, 2 changeover contacts, test button, status LED, mechanical switching position indicator, input voltage: 24 V AC

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### V- 12- 24UC - Plug-in module

2833864

<https://www.phoenixcontact.com/us/products/2833864>



Plug-in module, for mounting on PR1 and PR2, with varistor, input voltage : 12 ...  
24 V AC/DC  $\pm 20$  %

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### 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 <sup>7</sup> 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 | 1.3 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 $U_N$    | 24 V AC                              |
| Input voltage range            | 18.7 V AC ... 36 V AC                |
| Drive and function             | monostable                           |
| Typical input current at $U_N$ | 54 mA (at 50 Hz)<br>46 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 <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross-section flexible | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross-section AWG      | 24 ... 16                                   |

### Contact side

|                                  |   |
|----------------------------------|---|
| Connection method                | Spring-cage connection                      |
| Stripping length                 | 12 mm                                       |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross-section flexible | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 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                       |

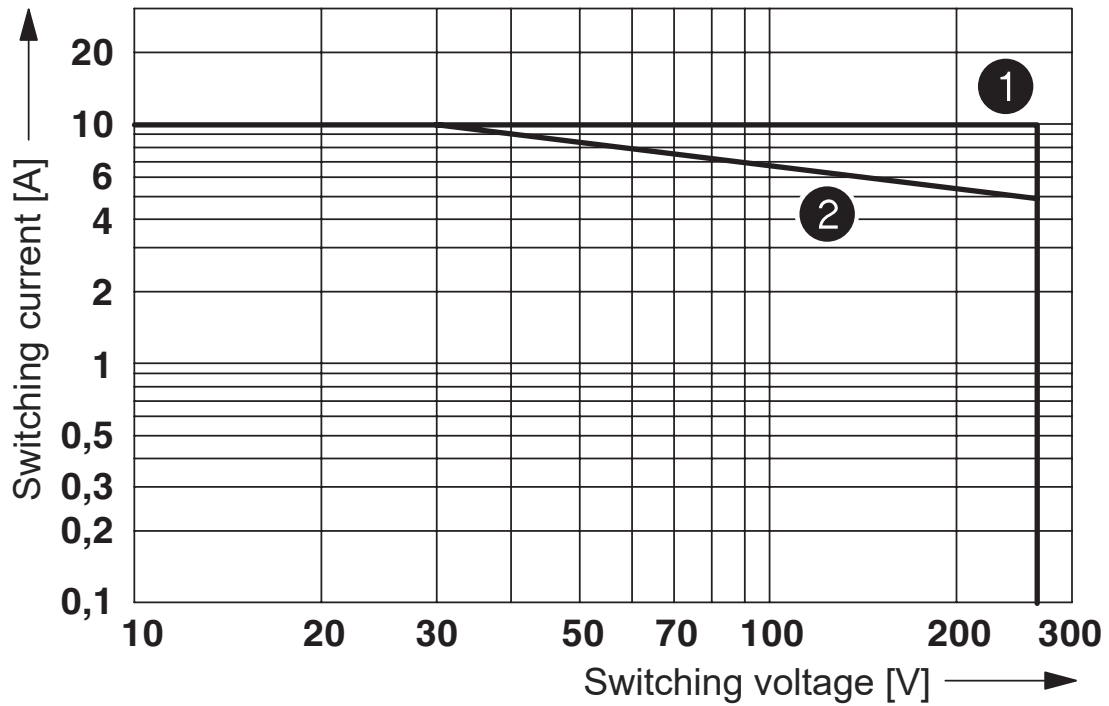
Drawings

Diagram



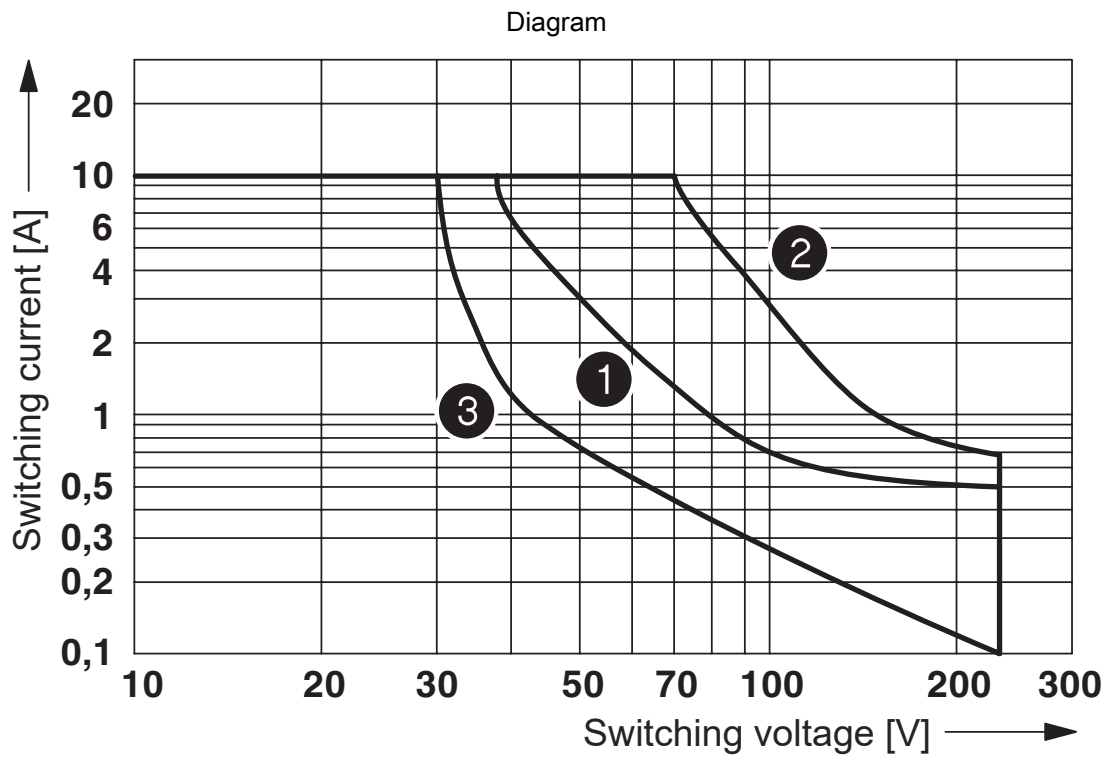
Operating voltage range of relay  $T_u=T_{coil}$

Diagram



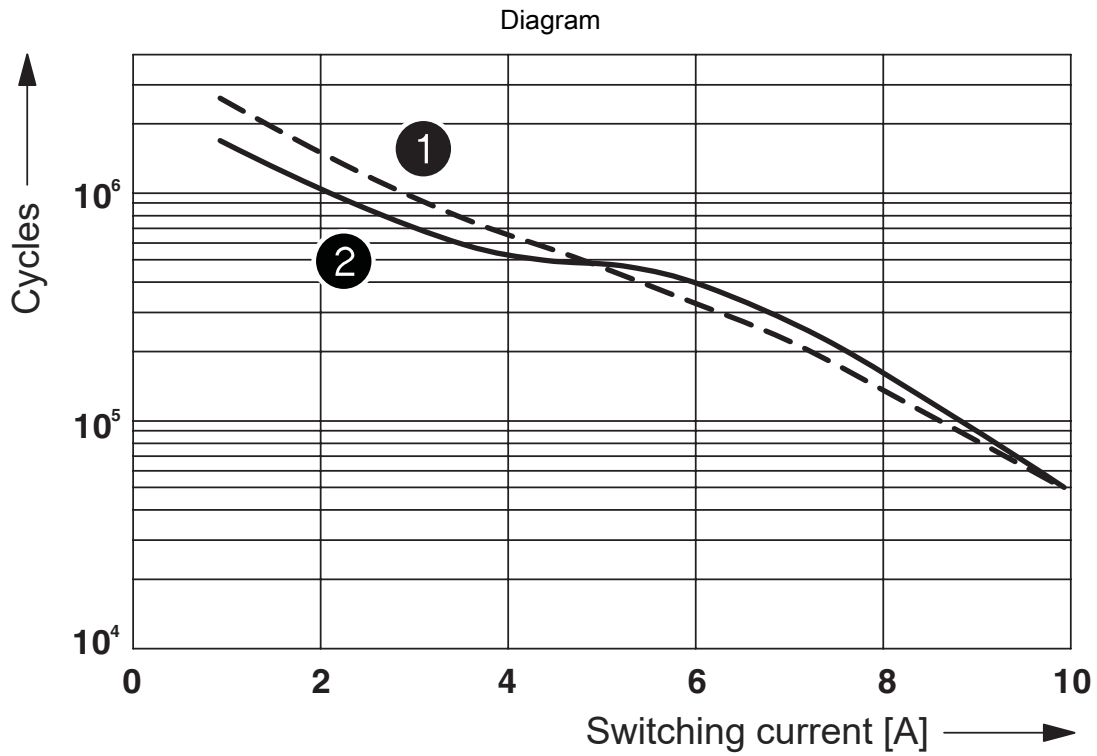
- ① Ohmic load
- ②  $\cos \phi = 0.4$

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

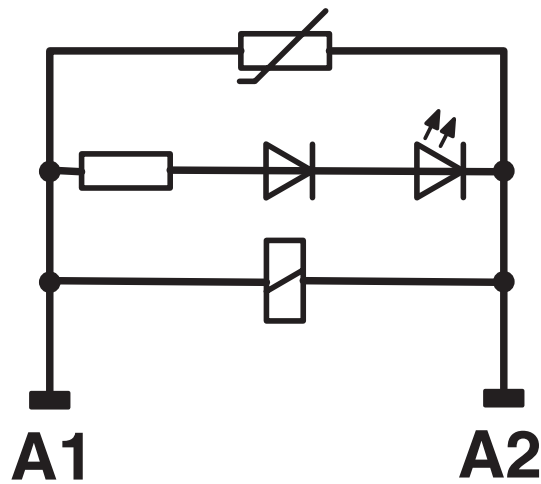
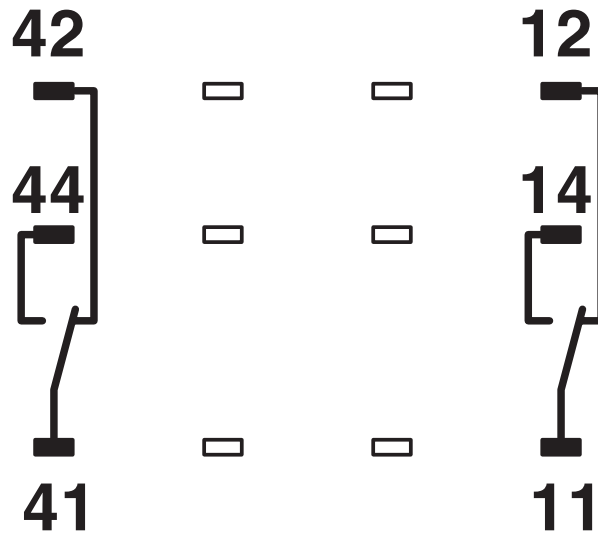
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Circuit diagram



AC coils

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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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