

## Relay Module - PR2-RSP3-LV-230AC/4X21AU - 2834795

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Preassembled relay modules with spring-cage connection, consisting of a relay base, industrial relay with integrated LED and engage/disengage manual actuate lever, varistor module, and retaining bracket. Input voltage: 230 V AC, 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
- ✓ Logical contact arrangement thanks to 1/3-level relay base
- ✓ Mechanical switch position indicator
- ✓ 4 PDT types with multi-layer gold contacts

RoHS

### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 5 pc                                                                                 |
| GTIN         |  |
| GTIN         | 4017918996314                                                                        |

### Technical data

#### Note

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

#### Dimensions

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

#### Ambient conditions

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

# Relay Module - PR2-RSP3-LV-230AC/4X21AU - 2834795

## Technical data

### Coil side

|                                         |                 |
|-----------------------------------------|-----------------|
| Nominal input voltage $U_N$             | 230 V AC        |
| 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         |
| Power dissipation for nominal condition | 1.15 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. | 120 W (at 24 V DC)     |
|                                       | 100 W (at 48 V DC)     |
|                                       | 78 W (at 60 V DC)      |
|                                       | 55 W (at 110 V DC)     |
|                                       | 80 W (at 220 V DC)     |
|                                       | 1250 VA (for 250 V AC) |

### 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                  | $5 \times 10^7$ 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                | Spring-cage connection                      |
| Stripping length                 | 12 mm                                       |
| Conductor cross section solid    | 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                                   |

### Standards and Regulations

## Relay Module - PR2-RSP3-LV-230AC/4X21AU - 2834795

### Technical data

#### Standards and Regulations

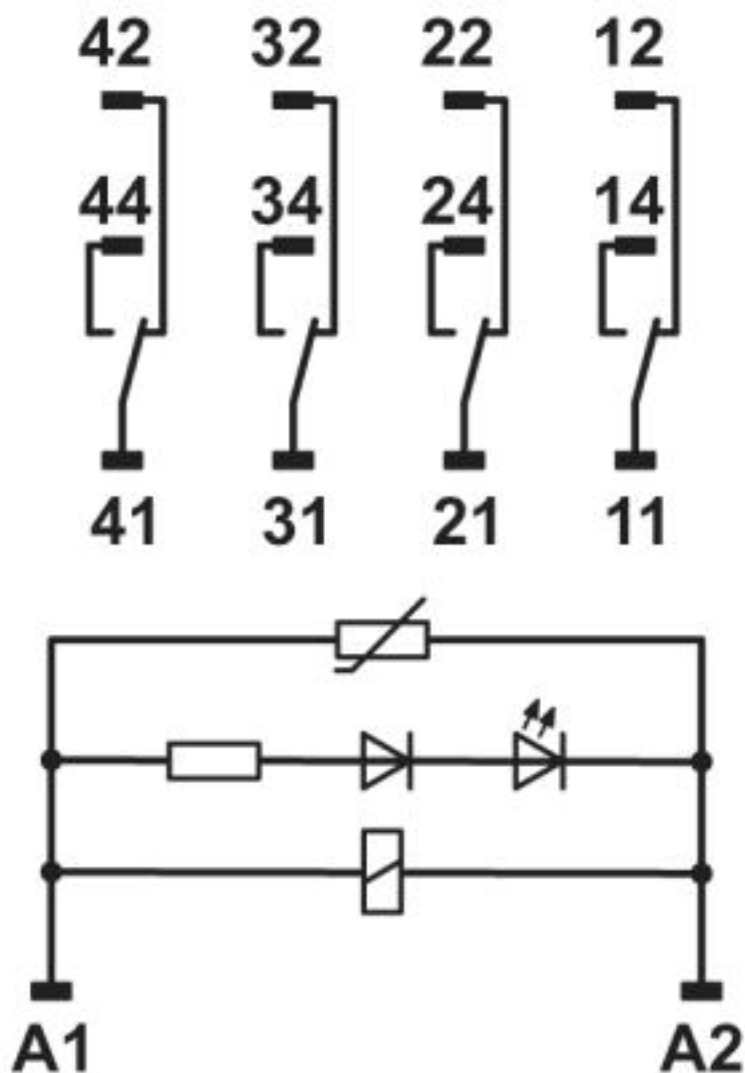
|                       |           |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
|                       | EN 50178  |
| Pollution degree      | 2         |
| Overvoltage category  | II        |

#### Environmental Product Compliance

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

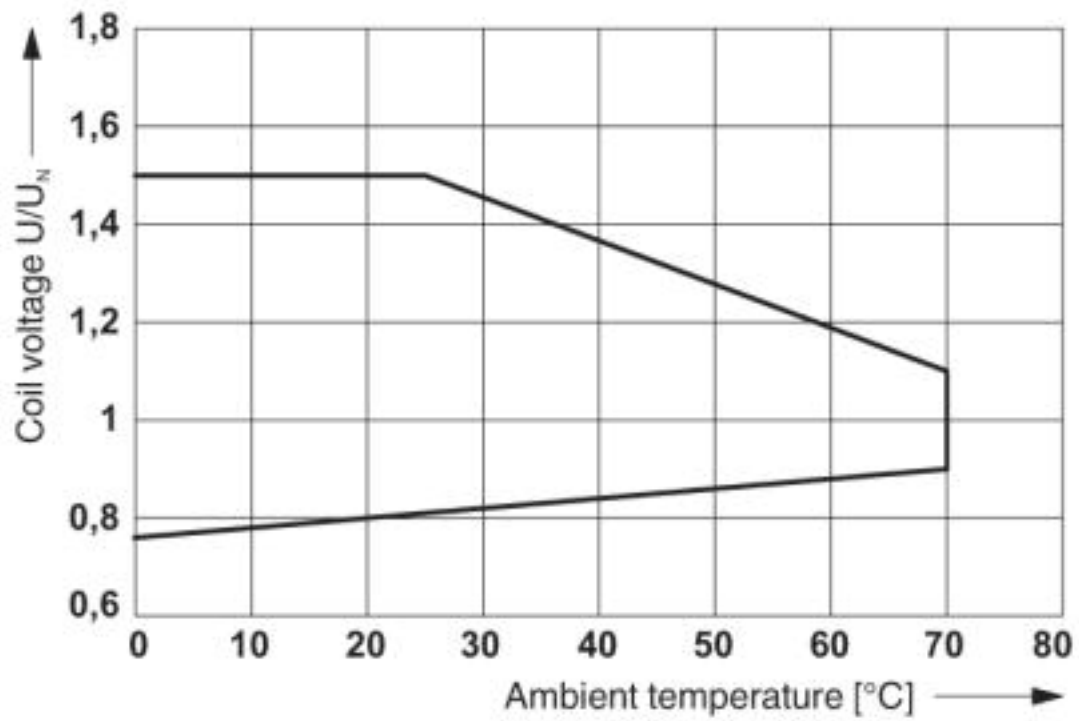
### Drawings

Circuit diagram



## Relay Module - PR2-RSP3-LV-230AC/4X21AU - 2834795

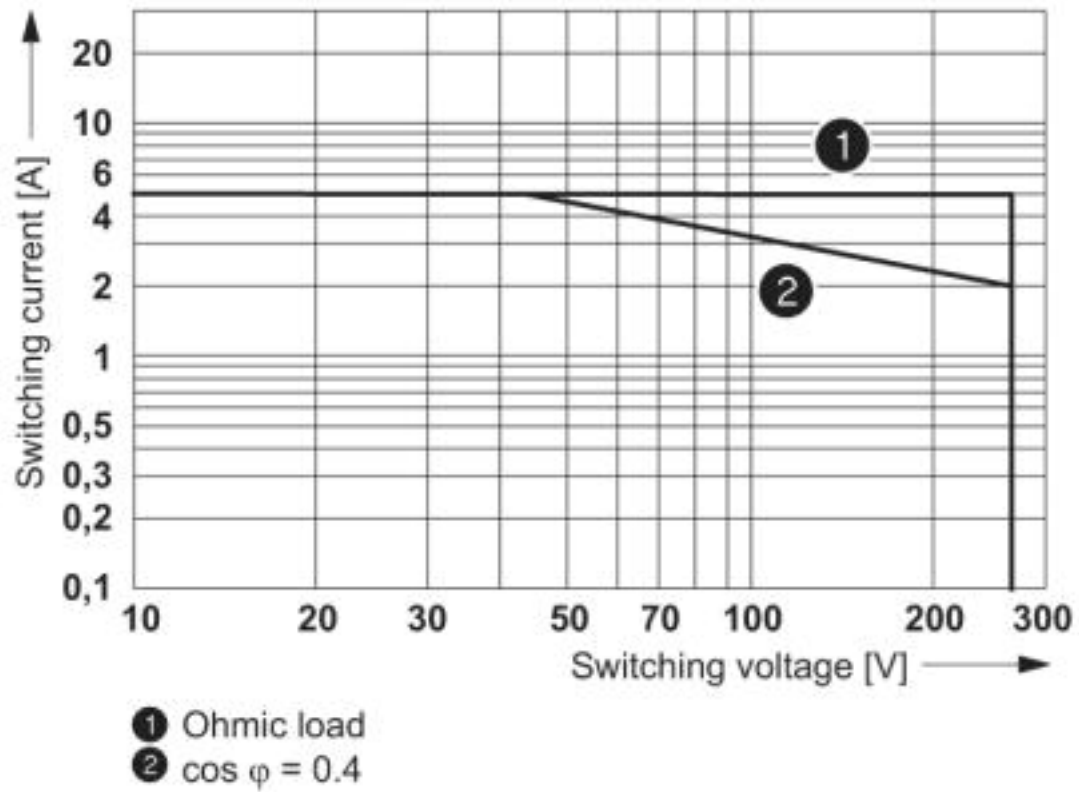
Diagram



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

## Relay Module - PR2-RSP3-LV-230AC/4X21AU - 2834795

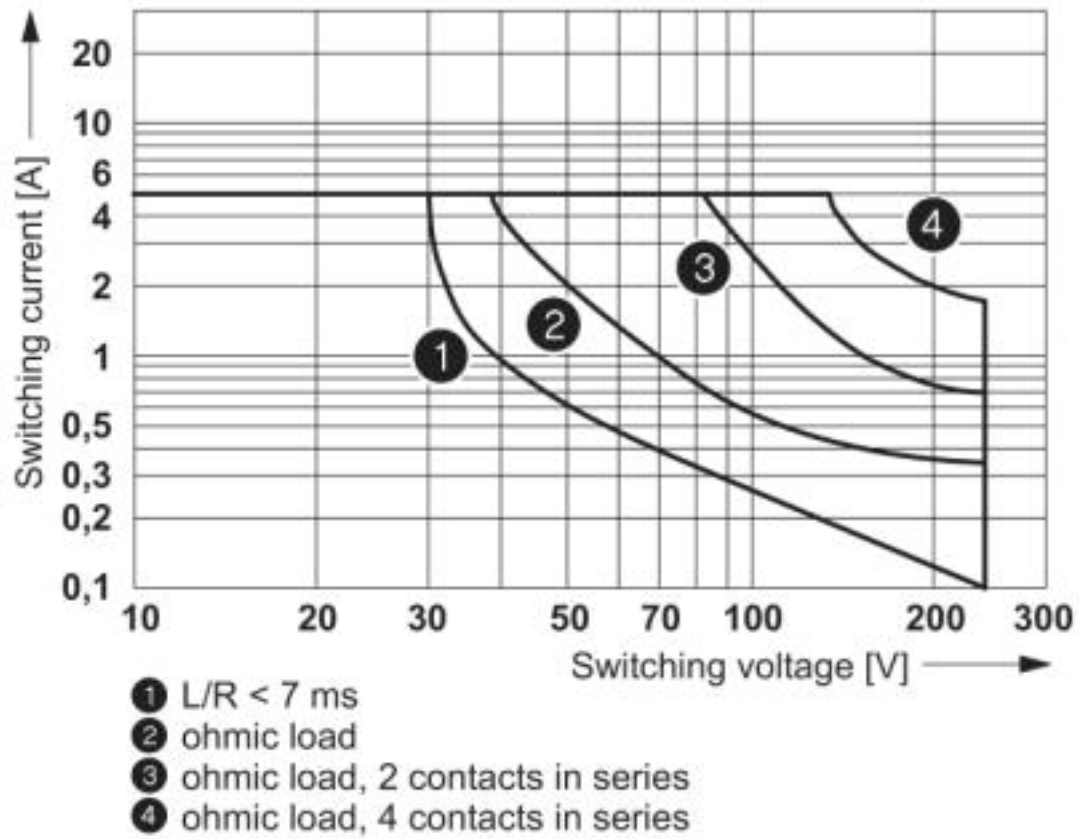
Diagram



AC interrupting rating

## Relay Module - PR2-RSP3-LV-230AC/4X21AU - 2834795

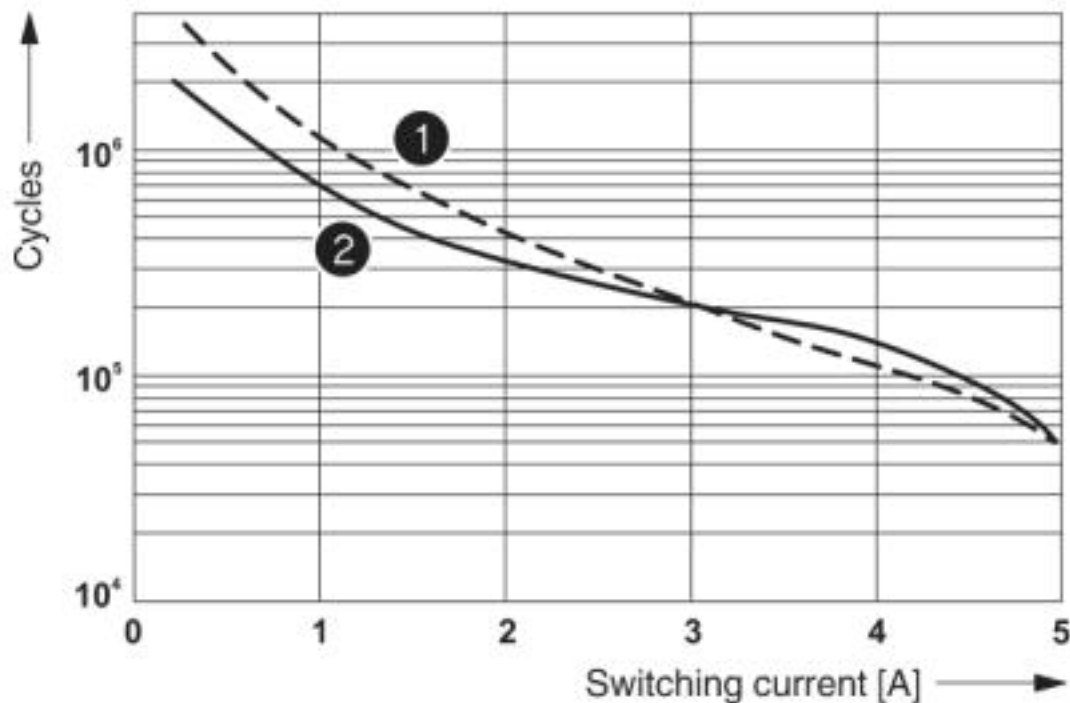
Diagram



DC interrupting rating

## Relay Module - PR2-RSP3-LV-230AC/4X21AU - 2834795

Diagram



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

Electrical service life

Articles in set

Relay base - PR2-BSP3/4X21 - 2833589



Relay base PR2-B, for industrial relay REL-IR with 2 or 4 PDT, 1/3-level version, spring-cage connections, connection facility for input/interference suppression modules, for mounting on NS 35/7.5

Single relay - REL-IR/L-230AC/4X21AU - 2834148



Plug-in industrial relay with power contacts and additional hard gold plating, 4 PDTs, test button, status LED, mechanical switch setting display, coil voltage: 230 V AC

## Relay Module - PR2-RSP3-LV-230AC/4X21AU - 2834795

### Articles in set

Plug-in module - V-120-230UC - 2833880



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

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

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371100 |
| eCl@ss 4.1 | 27371100 |
| eCl@ss 5.0 | 27371600 |
| eCl@ss 5.1 | 27371600 |
| eCl@ss 6.0 | 27371600 |
| eCl@ss 7.0 | 27371601 |
| eCl@ss 8.0 | 27371601 |
| eCl@ss 9.0 | 27371601 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001437 |
| ETIM 3.0 | EC001437 |
| ETIM 4.0 | EC001437 |
| ETIM 5.0 | EC001437 |
| ETIM 6.0 | EC001437 |
| ETIM 7.0 | EC001437 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11     | 39121515 |
| UNSPSC 12.01  | 39121515 |
| UNSPSC 13.2   | 39122334 |
| UNSPSC 18.0   | 39122334 |



## Relay Module - PR2-RSP3-LV-230AC/4X21AU - 2834795

### Classifications

#### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 19.0 | 39122334 |
| UNSPSC 20.0 | 39122334 |
| UNSPSC 21.0 | 39122334 |

### Approvals

#### Approvals

Approvals

EAC / EAC

Ex Approvals

#### Approval details

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

|     |                                                                                     |                         |
|-----|-------------------------------------------------------------------------------------|-------------------------|
| EAC |  | RU*C-<br>DE.*08.B.00010 |
|-----|-------------------------------------------------------------------------------------|-------------------------|

Phoenix Contact 2020 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>