

# PR1-RSC3-LV-230AC/21 - Relay module



2834355  
<https://www.phoenixcontact.com/us/products/2834355>

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Pre-assembled PR1-RSC... relay modules with screw connection, consisting of: relay base, power contact relay, plug-in display/interference suppression module, and retaining bracket. Input voltage: 230 V AC, 1 changeover contact, 12 A

## Your advantages

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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2834355                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C463                           |
| Product key                          | CK6319                         |
| Catalog page                         | Page 394 (C-7-2015)            |
| GTIN                                 | 4046356044240                  |
| Weight per piece (including packing) | 68.8 g                         |
| Weight per piece (excluding packing) | 66.51 g                        |
| Customs tariff number                | 85364900                       |
| Country of origin                    | CN                             |

# PR1-RSC3-LV-230AC/21 - Relay module



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## Set consists of

### PR1-BSC3/2X21 - Relay base

2833521

<https://www.phoenixcontact.com/us/products/2833521>



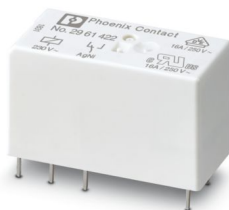
PR1... relay base, for miniature power relays or miniature switching relays with 1 or 2 changeover contacts or solid-state relays of the same design, 1/3-level version, screw connections, plug-in option for input/interference suppression modules

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### REL-MR-230AC/21HC - Single relay

2961422

<https://www.phoenixcontact.com/us/products/2961422>



Plug-in miniature power relay, with power contact for high continuous currents, 1 changeover contact, input voltage 230 V AC

## PR1-RSC3-LV-230AC/21 - Relay module

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

2833738

<https://www.phoenixcontact.com/us/products/2833738>



Plug-in module, with varistor and yellow LED, input voltage: 120 ... 230 V AC / 110 V DC  $\pm 20\%$

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### EL1-P16 - Retaining bracket

2833547

<https://www.phoenixcontact.com/us/products/2833547>



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

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## MP 1 - Marker labels

2833631

<https://www.phoenixcontact.com/us/products/2833631>

Equipment marker, labeling surface 6 x 15 mm



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## Technical data

### Product properties

|                         |                           |
|-------------------------|---------------------------|
| Product type            | Relay Module              |
| Application             | Universal                 |
| Operating mode          | 100% operating factor     |
| Mechanical service life | 3x 10 <sup>7</sup> cycles |

### Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 21.05.2024 |
|------------------------------|------------|

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Pollution degree     | 3   |

### Electrical properties

|                                                 |                                       |
|-------------------------------------------------|---------------------------------------|
| Service life electrical                         | see diagram                           |
| Maximum power dissipation for nominal condition | 1.38 W                                |
| Test voltage (Winding/contact)                  | 4 kV (50 Hz, 1 min., winding/contact) |

### Input data

#### Coil side

|                                         |                           |
|-----------------------------------------|---------------------------|
| Nominal input voltage U <sub>N</sub>    | 230 V AC                  |
| Input voltage range                     | 179.4 V AC ... 356.5 V AC |
| Drive and function                      | monostable                |
| Typical input current at U <sub>N</sub> | 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            |
| Protective circuit                      | Varistor                  |
| Operating voltage display               | Yellow LED                |

### Output data

#### Switching

|                             |                       |
|-----------------------------|-----------------------|
| Contact switching type      | 1 changeover contact  |
| Type of switch contact      | Single contact        |
| Contact material            | AgNi                  |
| Maximum switching voltage   | 250 V AC/DC           |
| Minimum switching voltage   | 12 V (at 10 mA)       |
| Limiting continuous current | 12 A                  |
| Maximum inrush current      | 30 A (300 ms)         |
| Min. switching current      | 10 mA (at 12 V)       |
|                             | 3000 W (for 250 V AC) |

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|                                       |                        |
|---------------------------------------|------------------------|
| Interrupting rating (ohmic load) max. | 50 W (at 110 V DC)     |
|                                       | 80 W (at 220 V DC)     |
|                                       | 288 W (at 24 V DC)     |
|                                       | at 440 V AC            |
|                                       | 58 W (at 48 V DC)      |
|                                       | 48 W (at 60 V DC)      |
| Switching capacity                    | 2 A (at 24 V, DC13)    |
|                                       | 0.2 A (at 110 V, DC13) |
|                                       | 0.2 A (at 250 V, DC13) |
|                                       | 6 A (at 24 V, AC15)    |
|                                       | 6 A (at 120 V, AC15)   |
|                                       | 6 A (at 250 V, AC15)   |

## Connection data

### Coil side

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Connection method                | Screw connection                             |
| Stripping length                 | 8 mm                                         |
| Screw thread                     | M3                                           |
| Conductor cross section rigid    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 26 ... 14                                    |

### Contact side

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Connection method                | Screw connection                             |
| Stripping length                 | 8 mm                                         |
| Screw thread                     | M3                                           |
| Conductor cross section rigid    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 26 ... 14                                    |

## Dimensions

|        |         |
|--------|---------|
| Width  | 16 mm   |
| Height | 78.5 mm |
| Depth  | 71 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 ... 85 °C |

## Standards and regulations

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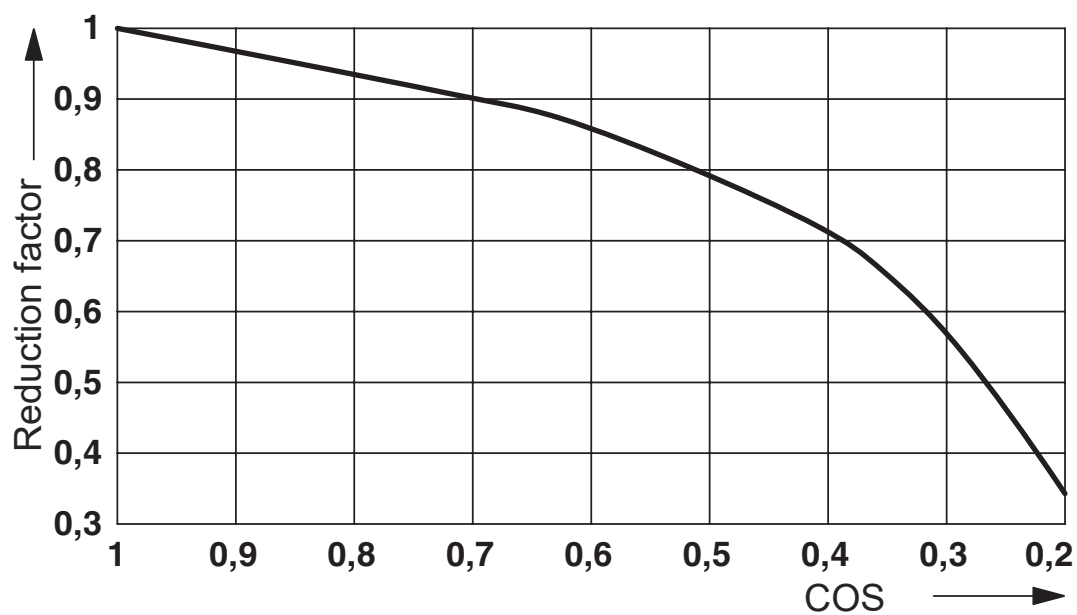
|                       |           |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
|                       | EN 50178  |

## Mounting

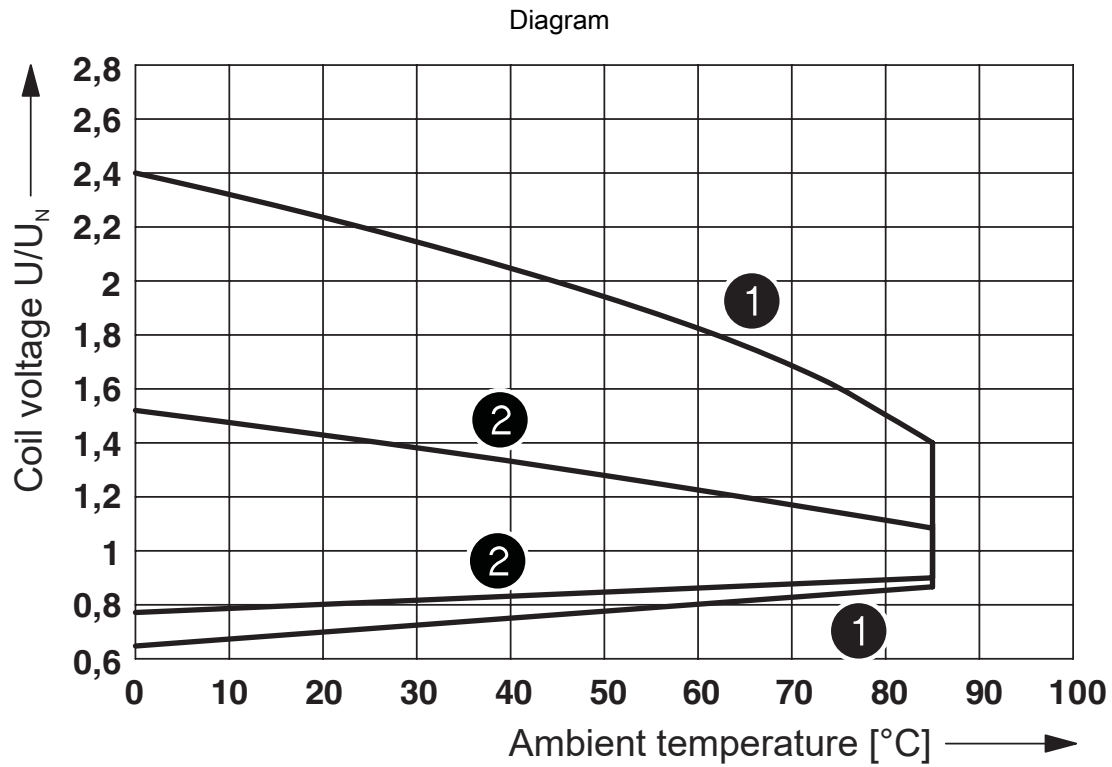
|                   |                           |
|-------------------|---------------------------|
| Mounting type     | DIN rail mounting         |
| Assembly note     | in rows with zero spacing |
| Mounting position | any                       |

## Drawings

Diagram

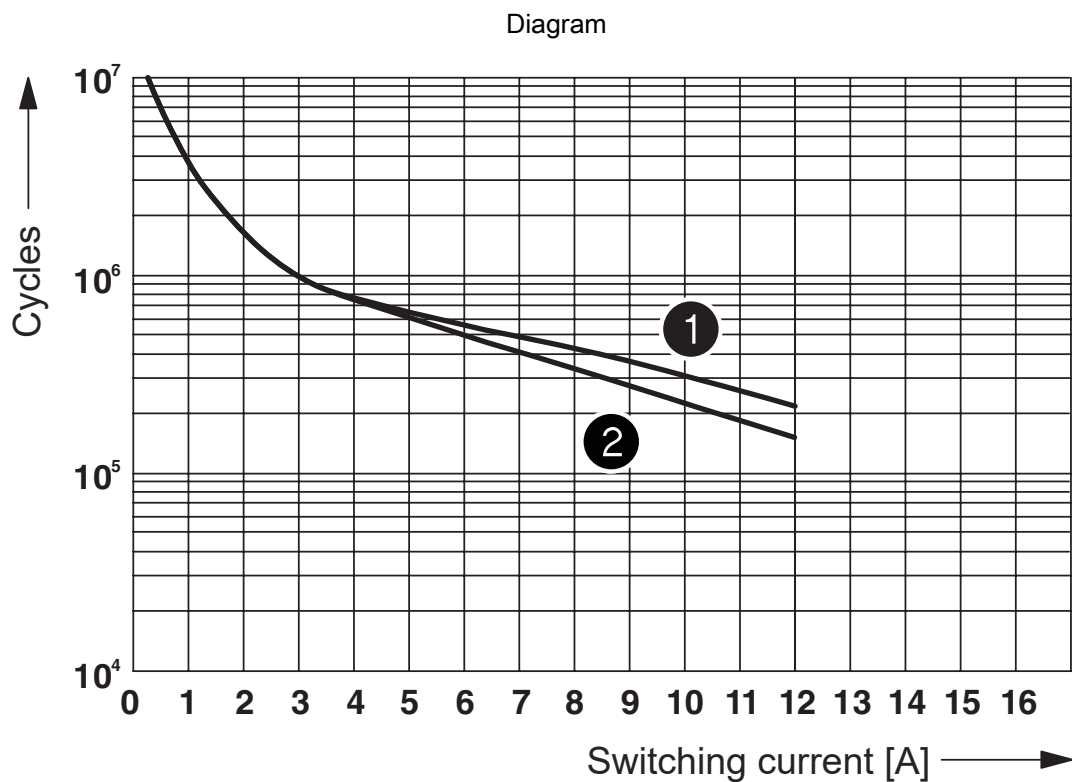


Service life reduction factor with various cos phi



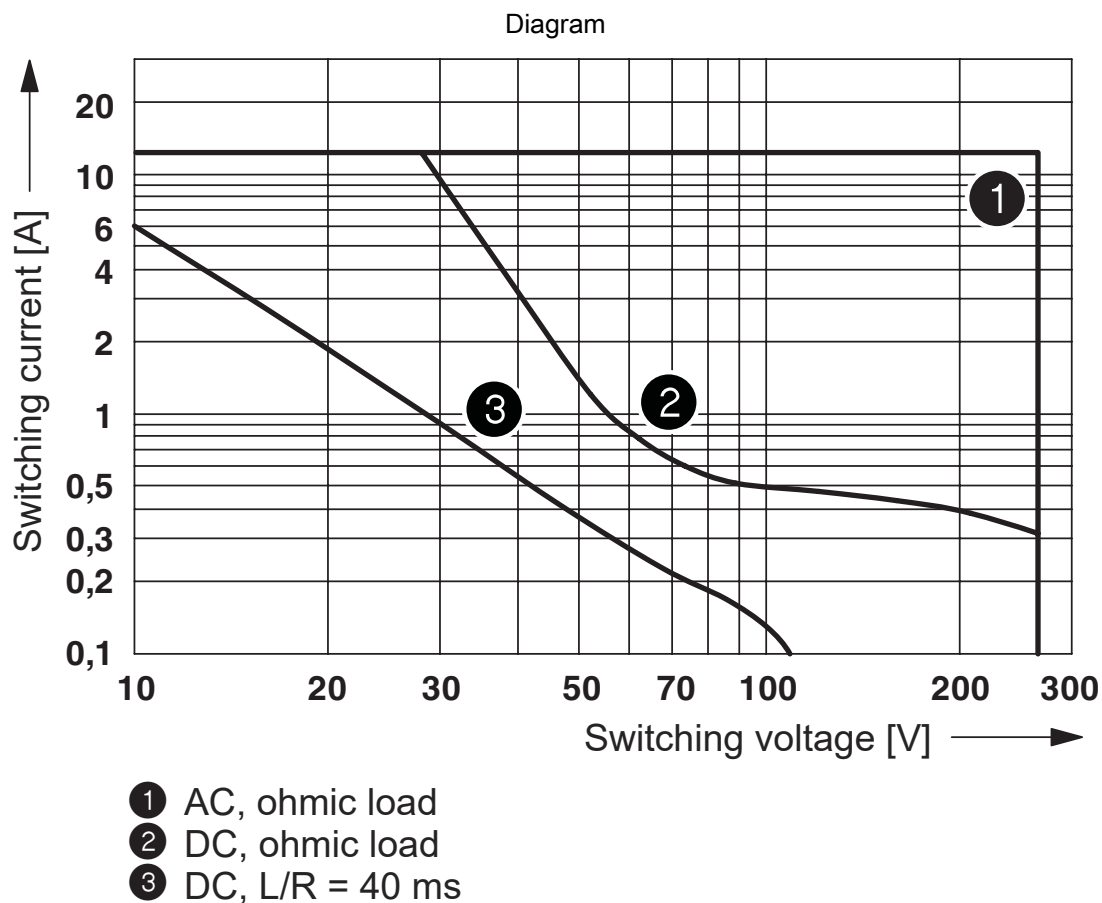
- ① DC coils
- ② AC coils

Operating voltage range of the relay



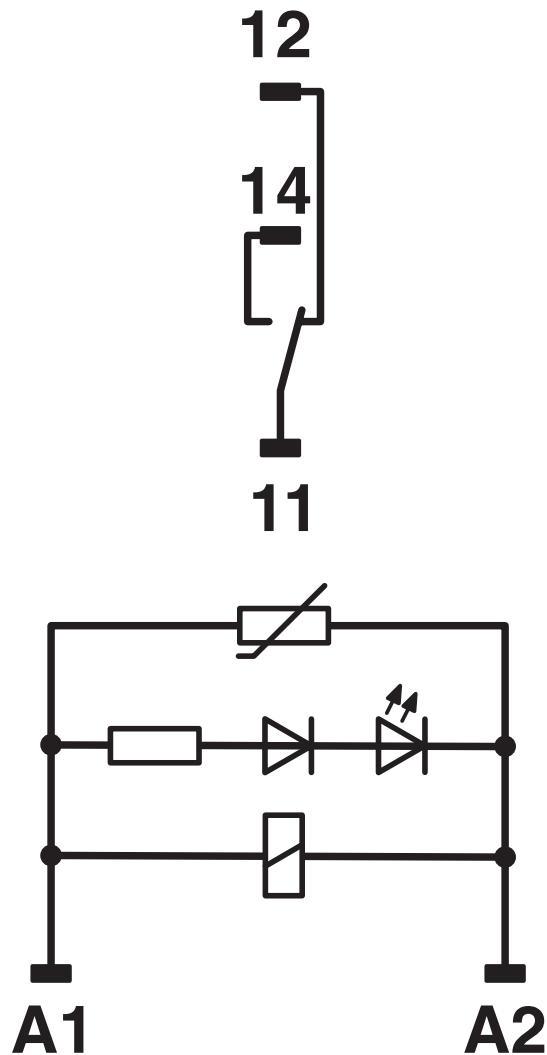
- ① 250 V AC, ohmic load (DC coils)
- ② 250 V AC, ohmic load (AC coils)

Electrical service life



Interrupting rating

Circuit diagram



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27371601 |
|-------------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39122334 |
|-------------|----------|

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## Environmental product compliance

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| EU RoHS                                 |                                          |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |                                          |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|                                         | No hazardous substances above the limits |
| EU REACH SVHC                           |                                          |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |

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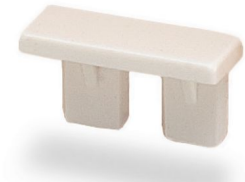
## Accessories

### MP 1 - Marker labels

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Equipment marker, labeling surface 6 x 15 mm



### EML (15X6)R YE - Label

0819288

<https://www.phoenixcontact.com/us/products/0819288>



Label, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 15 x 6 mm, Number of individual labels: 2500

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## DB 50- 90 BU - Wire bridge

2821180

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Flexible wire loop bridge, 50-pos., conductor cross-section:  $0.5 \text{ mm}^2$ , loop length: 90 mm, ferrule length: 8 mm, color: blue



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## DB 50- 90 BK - Wire bridge

2820916

<https://www.phoenixcontact.com/us/products/2820916>

Flexible wire loop bridge, 50-pos., conductor cross-section:  $0.5 \text{ mm}^2$ , loop length: 90 mm, ferrule length: 8 mm, color: black



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## DB 50- 90 GY - Wire bridge

2820929

<https://www.phoenixcontact.com/us/products/2820929>

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm<sup>2</sup>, loop length: 90 mm, ferrule length: 8 mm, color: gray



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