

# PR1-RSC3-LV-120AC/21AU - Relay module



2834384

<https://www.phoenixcontact.com/us/products/2834384>

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Pre-assembled PR1-RSC... relay modules with screw connection, consisting of: relay base, multi-layer contact relay, plug-in display/interference suppression module, and retaining bracket. Input voltage: 120 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                          | 2834384                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C463                           |
| Product key                          | DK631G                         |
| GTIN                                 | 4046356044271                  |
| Weight per piece (including packing) | 68.53 g                        |
| Weight per piece (excluding packing) | 65.66 g                        |
| Customs tariff number                | 85364900                       |
| Country of origin                    | CN                             |

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## Set consists of

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

2833521

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



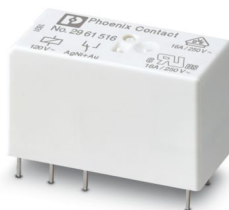
PR1... relay base, for miniature power relays or miniature switching relays with 1 or 2 changeover contacts or solid-state relays of the same design, 1/3-level version, screw connections, plug-in option for input/interference suppression modules

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### REL-MR-120AC/21HC AU - Single relay

2961516

<https://www.phoenixcontact.com/us/products/2961516>



Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 changeover contact, input voltage 120 V AC

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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

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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 |

### Insulation characteristics

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

### Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 01.04.2026 |
|------------------------------|------------|

### Electrical properties

|   |                                       |
|---|---------------------------------------|
| Service life electrical                         | see diagram                           |
| Maximum power dissipation for nominal condition | 1.08 W                                |
| Test voltage (Winding/contact)                  | 4 kV (50 Hz, 1 min., winding/contact) |

### Input data

#### Coil side

|                                |                                    |
|--------------------------------|------------------------------------|
| Nominal input voltage $U_N$    | 120 V AC                           |
| Input voltage range            | 93.6 V AC ... 186 V AC             |
| Drive and function             | monostable                         |
| Typical input current at $U_N$ | 9 mA (at 50 Hz)<br>7 mA (At 60 Hz) |
| Typical response time          | 3 ms ... 12 ms                     |
| Typical release time range     | 1.5 ms ... 16 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, hard gold-plated |
| Maximum switching voltage   | 30 V AC<br>36 V DC     |
| Minimum switching voltage   | 100 mV (at 10 mA)      |
| Limiting continuous current | 50 mA                  |
| Maximum inrush current      | 50 mA                  |
| Min. switching current      | 1 mA (at 24 V)         |

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|                                       |                     |
|---------------------------------------|---------------------|
| Interrupting rating (ohmic load) max. | 1.2 W (at 24 V DC)  |
| Switching capacity                    | 2 A (at 24 V, AC15) |

Switching: when the gold layer is destroyed

|                                       |  |
|---------------------------------------|--|
| Note                                  | the following values are applicable if a gold layer is destroyed |
| 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)  |
| Interrupting rating (ohmic load) max. | 3000 VA (for 250 V AC)   |
| Switching capacity                    | 2 A (at 24 V, DC13)  |
|                                       | 0.2 A (at 110 V, DC13)   |
|                                       | 0.2 A (at 250 V, DC13)   |
|                                       | 2 A (at 24 V, AC15)  |
|                                       | 2 A (at 120 V, AC15)   |
|                                       | 2 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) |
|-------|------------------|

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## 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

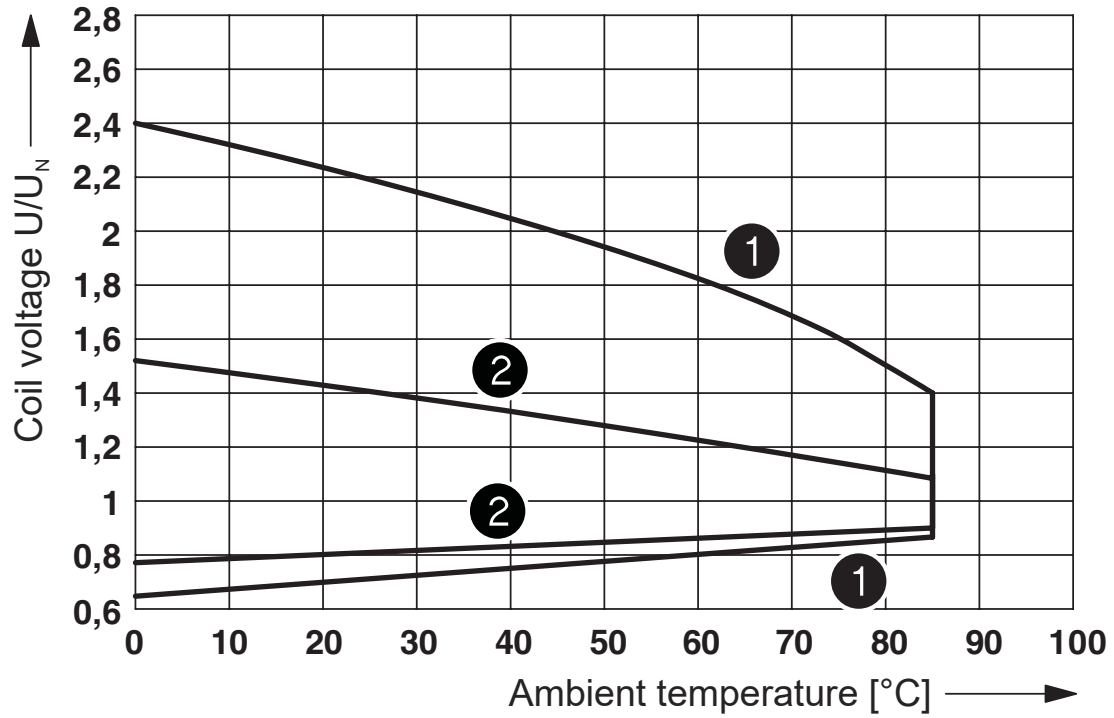
|                       |           |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
|                       | EN 50178  |

## Mounting

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

Drawings

Diagram



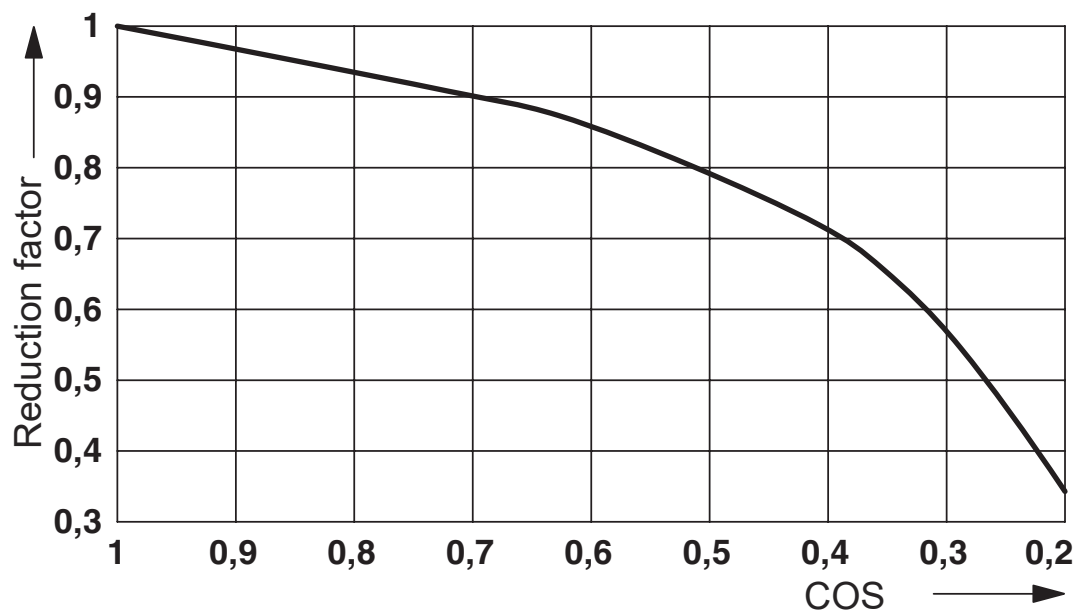
- ① DC coils
- ② AC coils

Operating voltage range of the relay



Interrupting rating

Diagram



Service life reduction factor with various cos phi

Diagram



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

Electrical service life

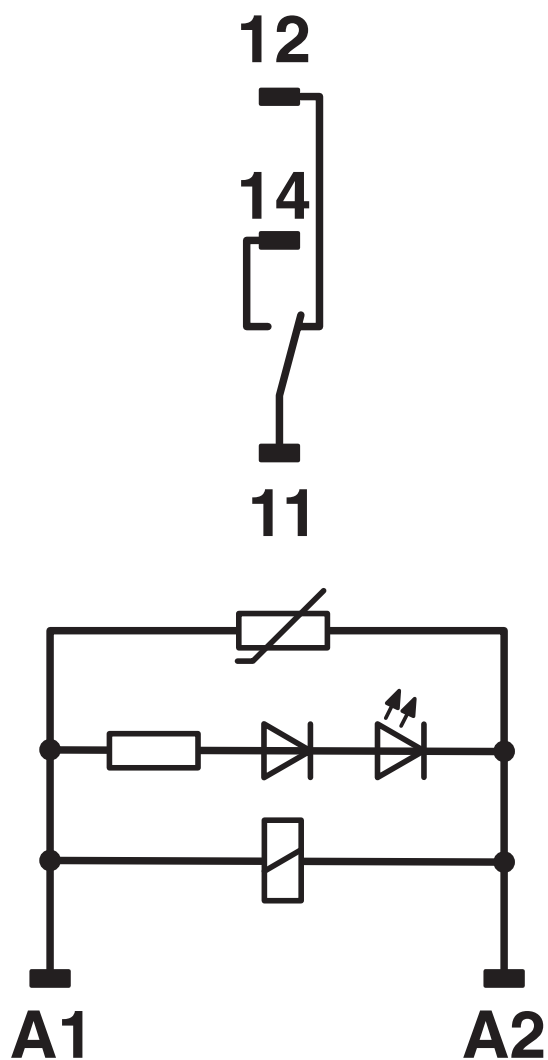
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Circuit diagram



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## Classifications

### UNSPSC

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

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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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