

# PR2-RSC3-LV-230AC/4X21AU - Relay Module



2834753

<https://www.phoenixcontact.com/pc/products/2834753>

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Pre-assembled relay modules with screw connection, consisting of: relay base, industrial relay with integrated LED and engage/disengage manual actuate lever, varistor module, and retaining bracket. Input voltage: 230 V AC, 4 changeover contacts with gold-plated contacts, 5 A

## 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-changeover contact types with multi-layer gold contacts

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2834753             |
| Packing unit                         | 5 pc                |
| Minimum order quantity               | 1 pc                |
| Product key                          | CK631H              |
| Catalog page                         | Page 397 (C-7-2015) |
| GTIN                                 | 4046356044578       |
| Weight per piece (including packing) | 127.79 g            |
| Weight per piece (excluding packing) | 121.12 g            |
| Customs tariff number                | 85364900            |
| Country of origin                    | CN                  |

# PR2-RSC3-LV-230AC/4X21AU - Relay Module



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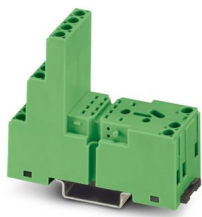
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## Set consists of

### PR2-BSC3/4X21 - Relay base

2833576

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

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

2834148

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Plug-in industrial relay with power contacts and additional hard gold plating, 4 changeover contacts, test button, status LED, mechanical switching position indicator, coil voltage: 230 V AC

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

2833880

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



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

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## EL2-P35 - Retaining bracket

2833592

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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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## MP 2 - Marker labels

2833644

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Equipment marker, labeling surface 9 x 25 mm



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## Technical data

### Product properties

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

### Data management status

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

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Pollution degree     | 2  |

### 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 <sub>N</sub>    | 230 V AC                |
| Input voltage range                     | 179.4 V AC ... 345 V AC |
| Drive and function                      | monostable              |
| Typical input current at U <sub>N</sub> | 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      | 4 changeover contacts  |
| Type of switch contact      | Single contact         |
| Contact material            | AgNi, hard gold-plated |
| Maximum switching voltage   | 250 V AC/DC            |
| Minimum switching voltage   | 1 V                    |
| Limiting continuous current | 5 A                    |
| Maximum inrush current      | 12 A (15 ms)           |
| Min. switching current      | 1 mA                   |

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|                                       |                        |
|---------------------------------------|------------------------|
| 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) |

## Connection data

### Coil side

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Connection method                | Screw connection                             |
| Stripping length                 | 7 mm                                         |
| 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                 | 7 mm                                         |
| 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  | 27 mm   |
| Height | 78.5 mm |
| Depth  | 86 mm   |

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Degree of protection (Relay)            | RT I (Relay)     |
| Ambient temperature (operation)         | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |

## Standards and regulations

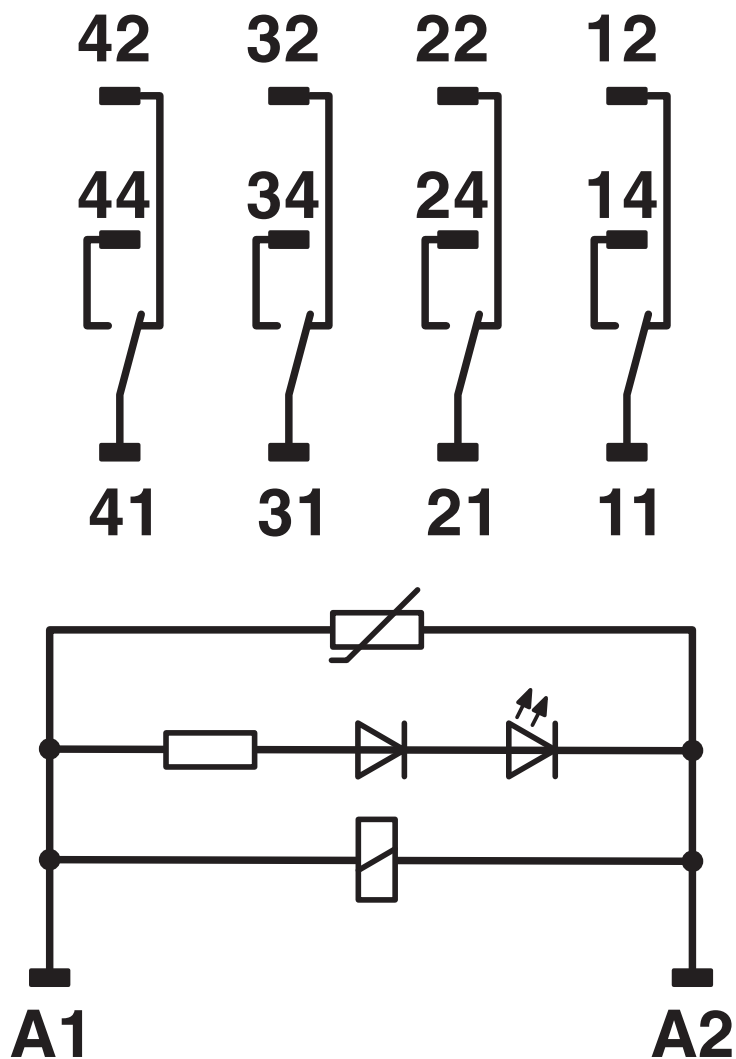
|                       |           |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
|                       | EN 50178  |

## Mounting

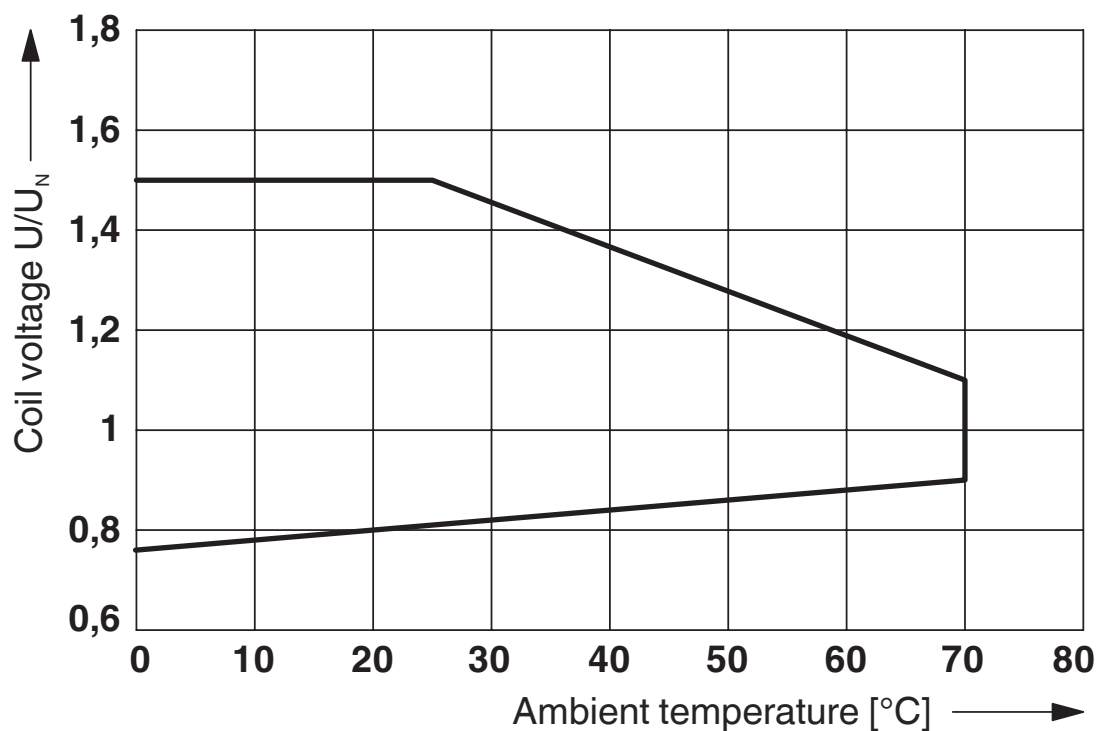
|                   |                           |
|-------------------|---------------------------|
| Mounting type     | DIN rail mounting         |
| Assembly note     | in rows with zero spacing |
| Mounting position | any                       |

## Drawings

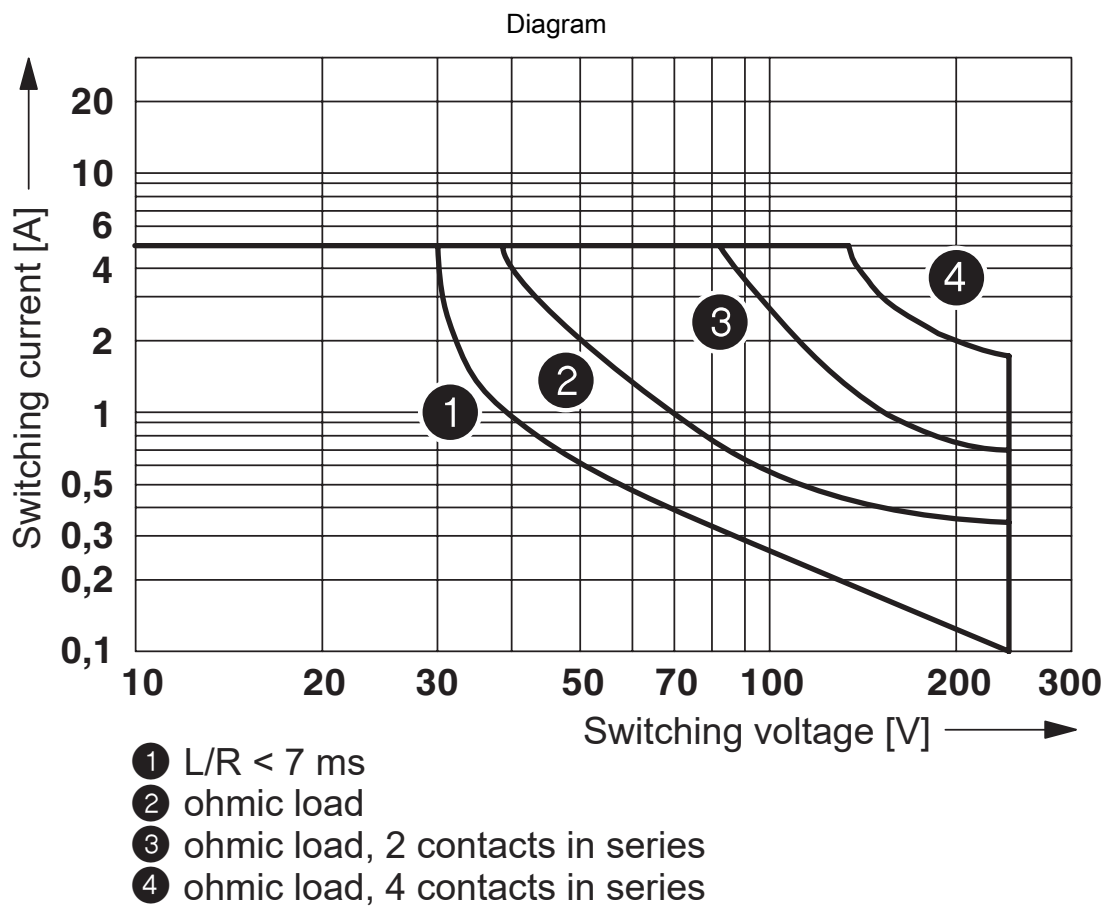
Circuit diagram



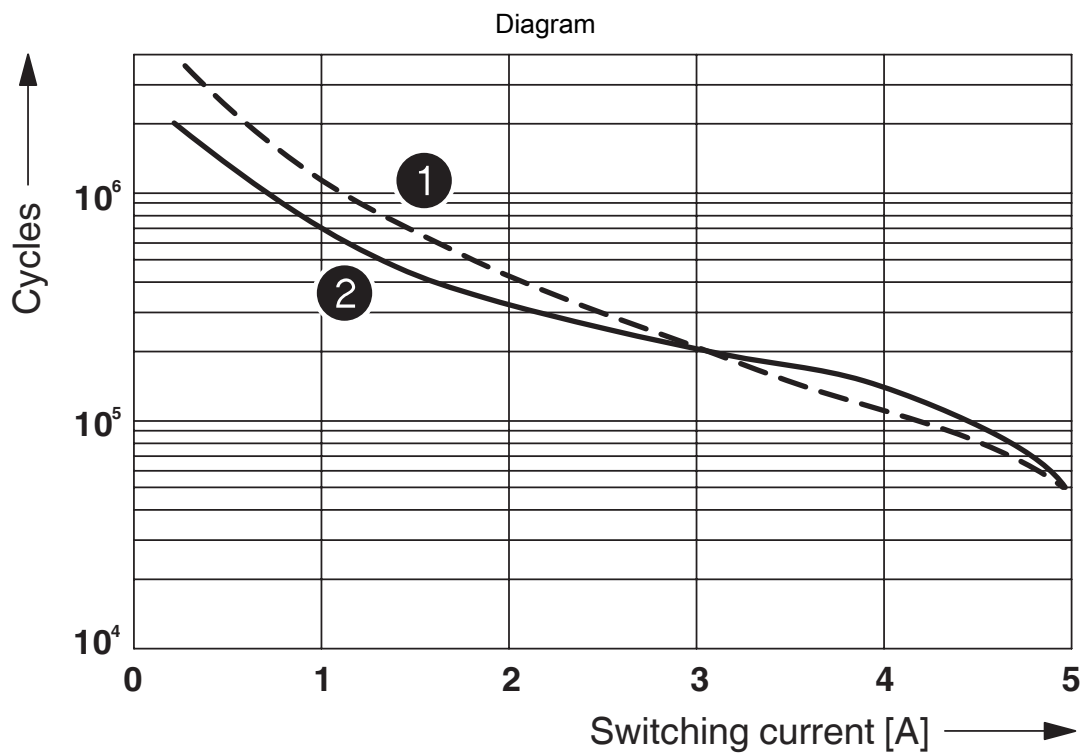
Diagram



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



DC interrupting rating

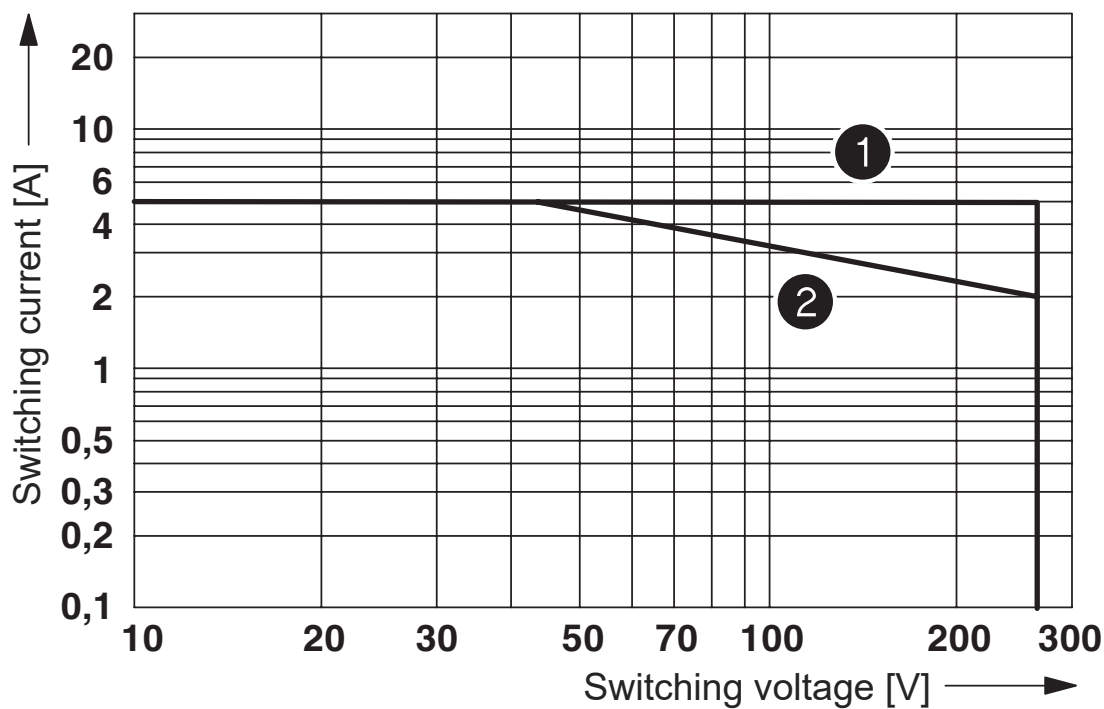


① 250 V AC, ohmic load

② 30 V DC, ohmic load

Electrical service life

Diagram



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

AC interrupting rating

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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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