

PR1-RSP3-LV-120AC/2X21AU - Relay module



2834627

<https://www.phoenixcontact.com/us/products/2834627>

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Pre-assembled relay modules with spring-cage connection, consisting of: relay base, multi-layer contact relay, plug-in display/interference suppression module, and retaining bracket. Input voltage: 120 V AC, 2 changeover contacts, 8 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 | 2834627 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C463 |
| Product key | DK632G |
| GTIN | 4046356044516 |
| Weight per piece (including packing) | 65.6 g |
| Weight per piece (excluding packing) | 65.6 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |

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Set consists of

PR1-BSP3/2X21 - Relay base

2833534

<https://www.phoenixcontact.com/us/products/2833534>

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



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

2961477

<https://www.phoenixcontact.com/us/products/2961477>

Plug-in miniature power relay, with multi-layer gold contact, 2 changeover contacts, 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 %

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

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 | 3x 10 ⁷ 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) |
| Test voltage (Contact/contact) | 2.5 kV (50 Hz, 1 min., contact/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) 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 | 2 changeover contacts |
| Type of switch contact | Single contact |
| Contact material | AgNi, hard gold-plated |

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| | |
|---------------------------------------|--------------------|
| Maximum switching voltage | 30 V AC |
| | 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) |
| Interrupting rating (ohmic load) max. | 1.2 W (at 24 V DC) |

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 | 5 V |
| Limiting continuous current | 8 A |
| Maximum inrush current | 15 A (300 ms) |
| Min. switching current | 10 mA |
| Interrupting rating (ohmic load) max. | 2000 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 | Spring-cage connection |
| Stripping length | 10 mm |
| Conductor cross-section rigid | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section AWG | 24 ... 16 |

Contact side

| | |
|----------------------------------|---|
| Connection method | Spring-cage connection |
| Stripping length | 10 mm |
| Conductor cross-section rigid | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section AWG | 24 ... 16 |

Dimensions

| | |
|--------|-------|
| Width | 16 mm |
| Height | 97 mm |
| Depth | 72 mm |

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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

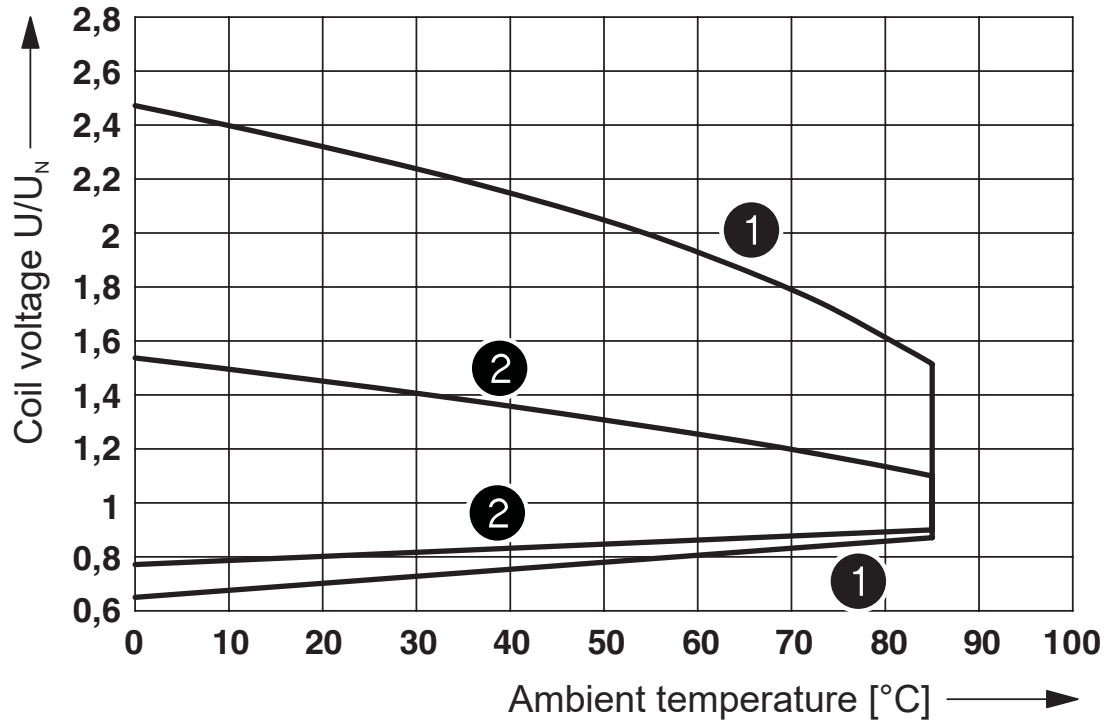
| | |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
| | EN 50178 |

Mounting

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

Drawings

Diagram



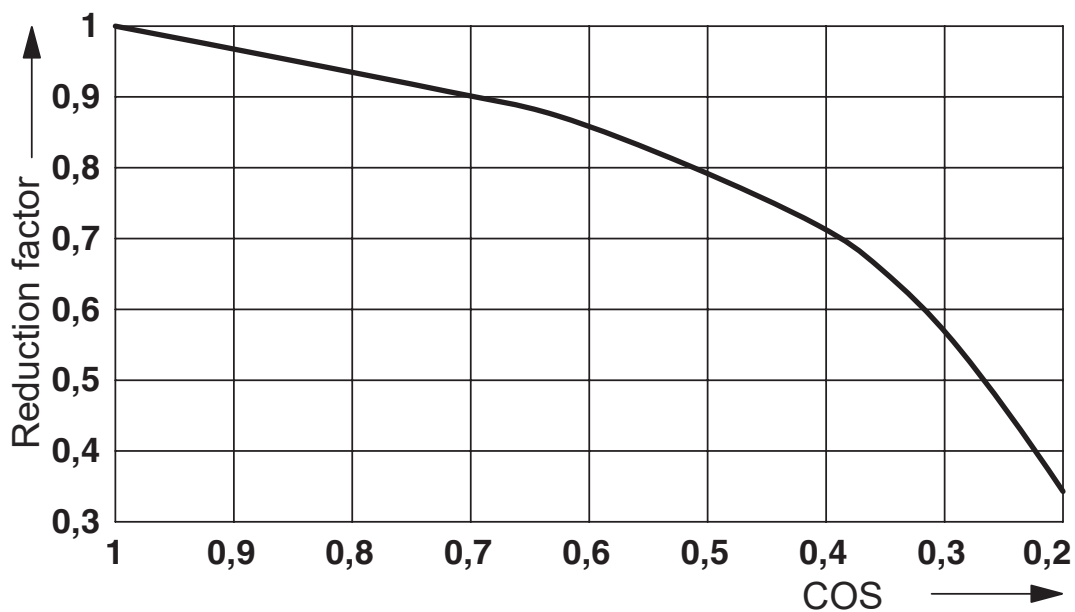
- ① DC coils
- ② AC coils

Operating voltage range of the relay



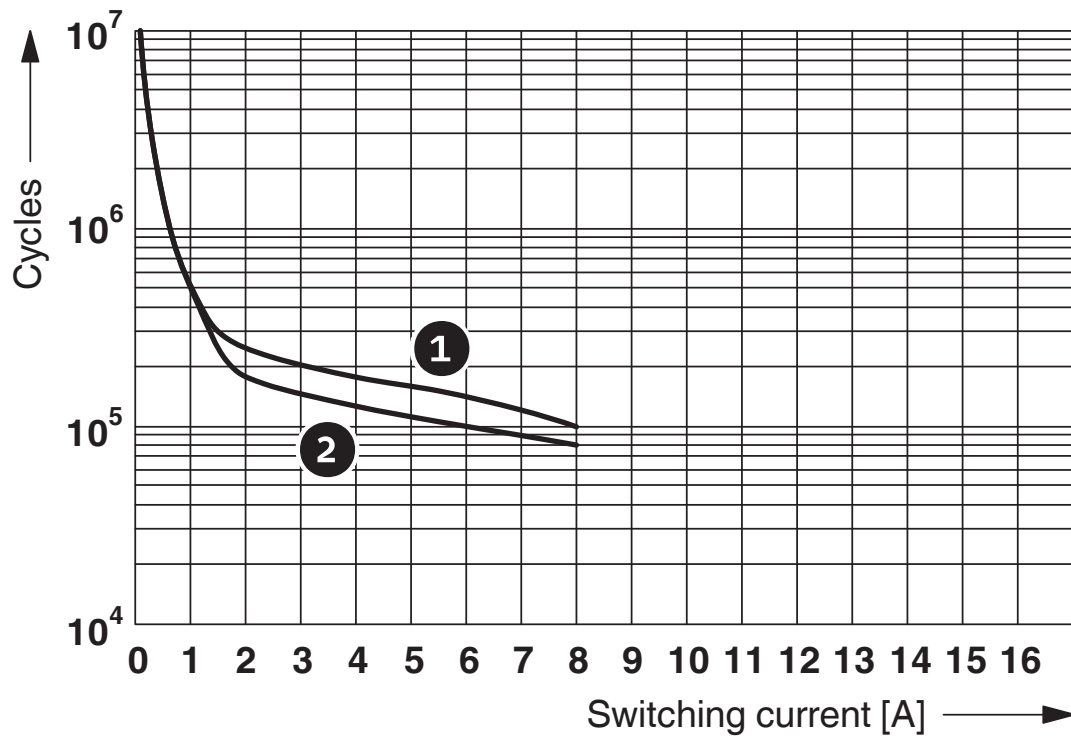
Interrupting rating

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

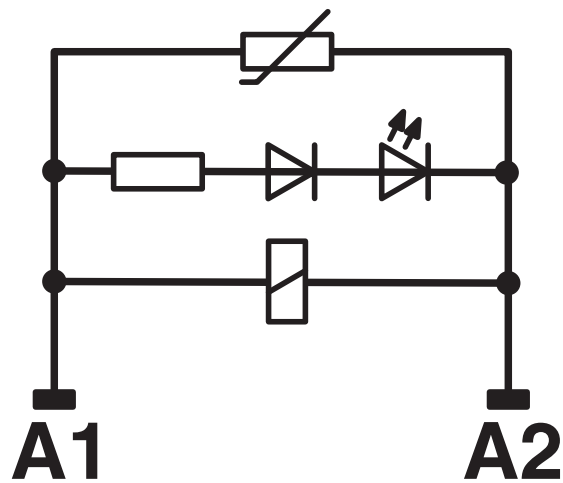
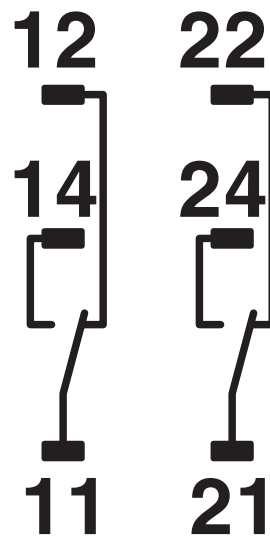
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Circuit diagram



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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com