

PR1-RSP3-LDP-24DC/2X21 - Relay module



2834562

<https://www.phoenixcontact.com/us/products/2834562>

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Pre-assembled relay modules with spring-cage connection, consisting of: relay base, power contact relay, plug-in display/interference suppression module, and retaining bracket. Input voltage: 24 V DC, 2 changeover contacts, 8 A

Your advantages

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

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2834562 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C463 |
| Product key | DK6329 |
| GTIN | 4046356044455 |
| Weight per piece (including packing) | 72.97 g |
| Weight per piece (excluding packing) | 65.63 g |
| Customs tariff number | 85364900 |
| Country of origin | CN |

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Set consists of

PR1-BSP3/2X21 - Relay base

2833534

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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

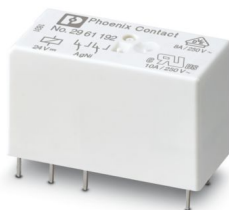


REL-MR- 24DC/21-21 - Single relay

2961192

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Plug-in miniature power relay, with power contact, 2 changeover contacts, input voltage 24 V DC



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LDP- 12- 24DC - Plug-in module

2833657

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Plug-in module, with freewheeling diode and yellow LED, polarity: **A1+**, **A2-**,
input voltage: 12 ... 24 V DC ± 20 %

EL1-P16 - Retaining bracket

2833547

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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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Technical data

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 | 12.09.2025 |
|------------------------------|------------|

Electrical properties

| | |
|---|---|
| Service life electrical | see diagram |
| Maximum power dissipation for nominal condition | 0.46 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 | 24 V DC |
| Input voltage range | 15.6 V DC ... 59.5 V DC |
| Drive and function | monostable |
| Typical input current at U _N | 19 mA |
| Typical response time | 8 ms |
| Typical release time | 10 ms |
| Protective circuit | Freewheeling diode |
| Operating voltage display | Yellow LED |

Output data

Switching

| | |
|-----------------------------|-----------------------|
| Contact switching type | 2 changeover contacts |
| Type of switch contact | Single contact |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V (at 10 mA) |
| Limiting continuous current | 8 A |
| Maximum inrush current | 15 A (300 ms) |
| Min. switching current | 10 mA (At 5 V) |
| | 2000 W (for 250 V AC) |

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| | |
|---------------------------------------|------------------------|
| Interrupting rating (ohmic load) max. | 44 W (at 110 V DC) |
| | 60 W (at 220 V DC) |
| | 190 W (at 24 V DC) |
| | at 440 V AC |
| | 85 W (at 48 V DC) |
| | 60 W (at 60 V DC) |
| Switching capacity | 2 A (at 24 V, DC13) |
| | 0.2 A (at 250 V, DC13) |
| | 3 A (at 24 V, AC15) |
| | 3 A (at 120 V, AC15) |
| | 3 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 |

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 |

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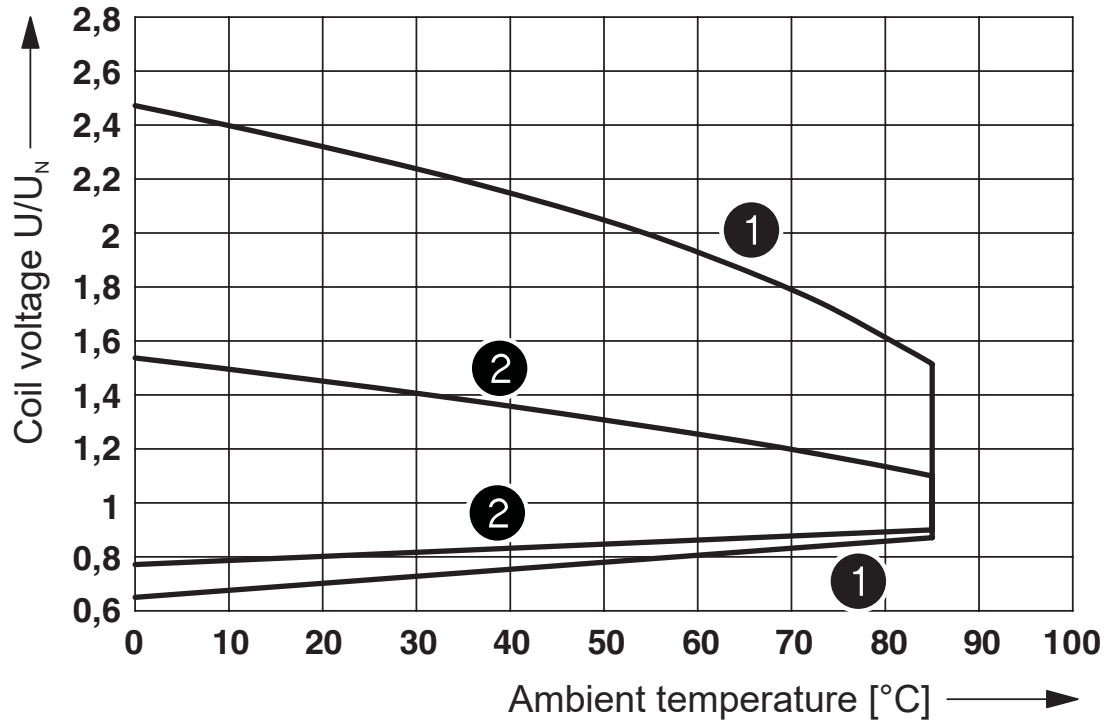
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Mounting

| | |
|-------------------|---------------------------|
| 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

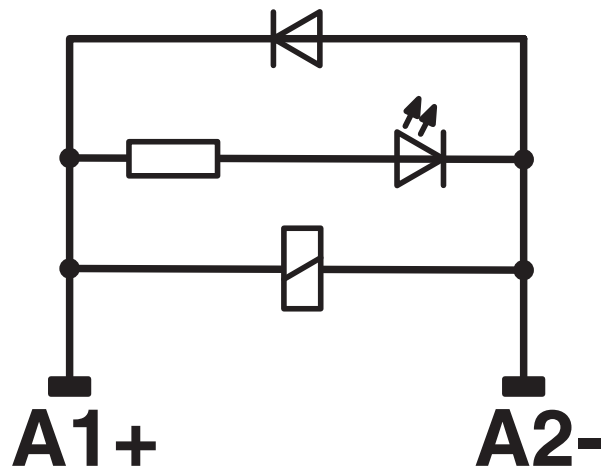
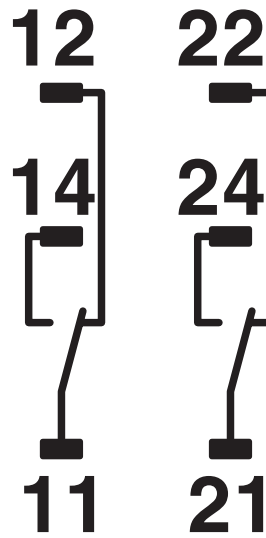
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Circuit diagram



DC coils

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