

PR1-RSC3-LDP-24DC/21 - Relay module



2834326

<https://www.phoenixcontact.com/us/products/2834326>

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Pre-assembled relay modules with screw connection, consisting of: relay base, power contact relay, plug-in display/interference suppression module, and retaining bracket. Input voltage: 24 V DC, 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 | 2834326 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C463 |
| Product key | DK6319 |
| GTIN | 4046356044219 |
| Weight per piece (including packing) | 69.22 g |
| Weight per piece (excluding packing) | 67.34 g |
| Customs tariff number | 85364900 |
| Country of origin | CN |

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Set consists of

PR1-BSC3/2X21 - Relay base

2833521

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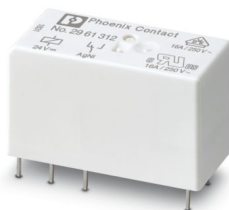


PR1... relay base, for miniature power relays or miniature switching relays with 1 or 2 changeover contacts or solid-state relays of the same design, 1/3-level version, screw connections, plug-in option for input/interference suppression modules

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

2961312

<https://www.phoenixcontact.com/us/products/2961312>



Plug-in miniature power relay, with power contact for high continuous currents, 1 changeover contact, 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

<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



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 | 01.04.2026 |
|------------------------------|------------|

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) |

Input data

Coil side

| | |
|---|-------------------------|
| Nominal input voltage U_N | 24 V DC |
| Input voltage range | 15.6 V DC ... 57.6 V DC |
| Input voltage range in reference to U_N | see diagram |
| 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 | 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) |
| | 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 ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.14 mm ² ... 2.5 mm ² |
| 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 ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.14 mm ² ... 2.5 mm ² |
| 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

| | |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
|-----------------------|-----------|

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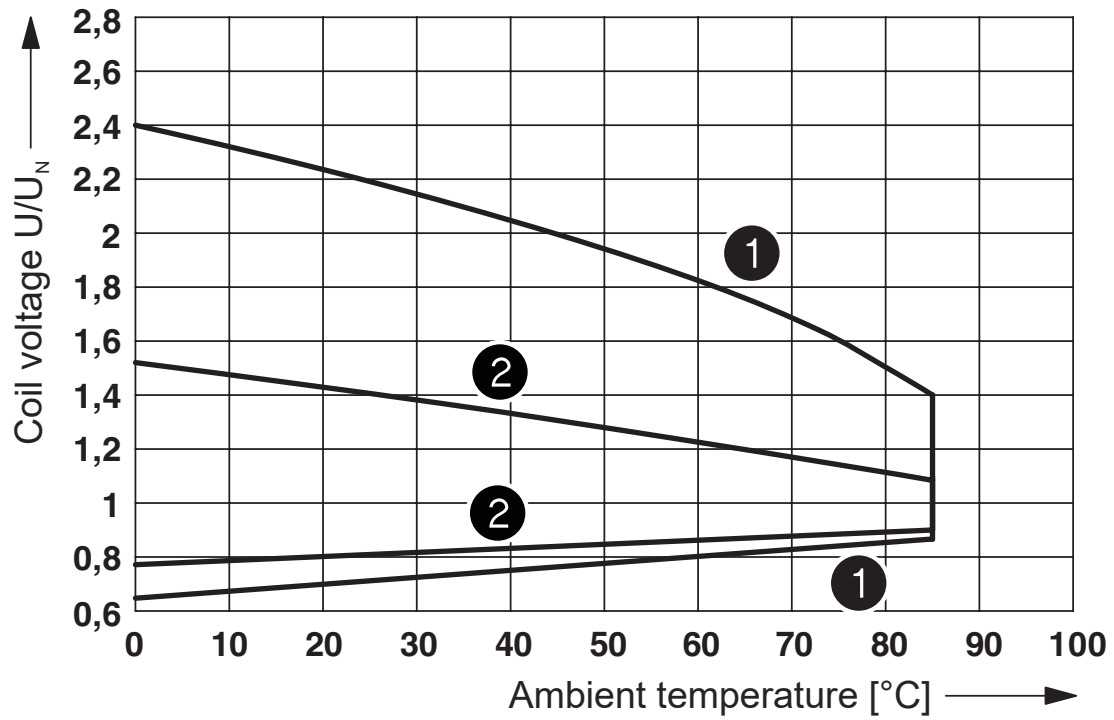
| | |
|--|----------|
| | EN 50178 |
|--|----------|

Mounting

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

Drawings

Diagram



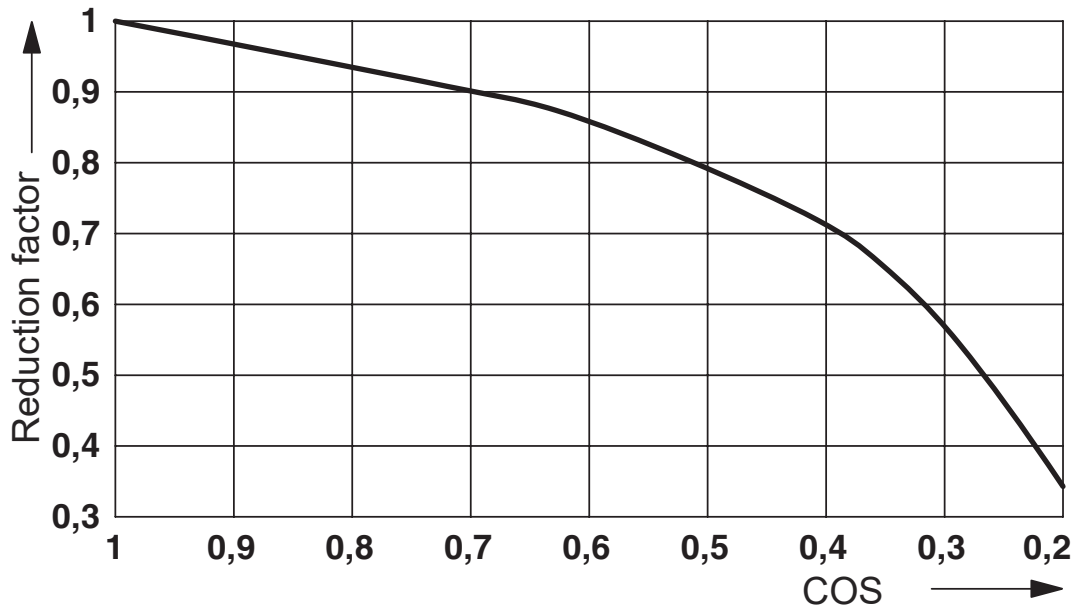
- ① DC coils
- ② AC coils

Operating voltage range of the relay



Interrupting rating

Diagram



Service life reduction factor

Diagram



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

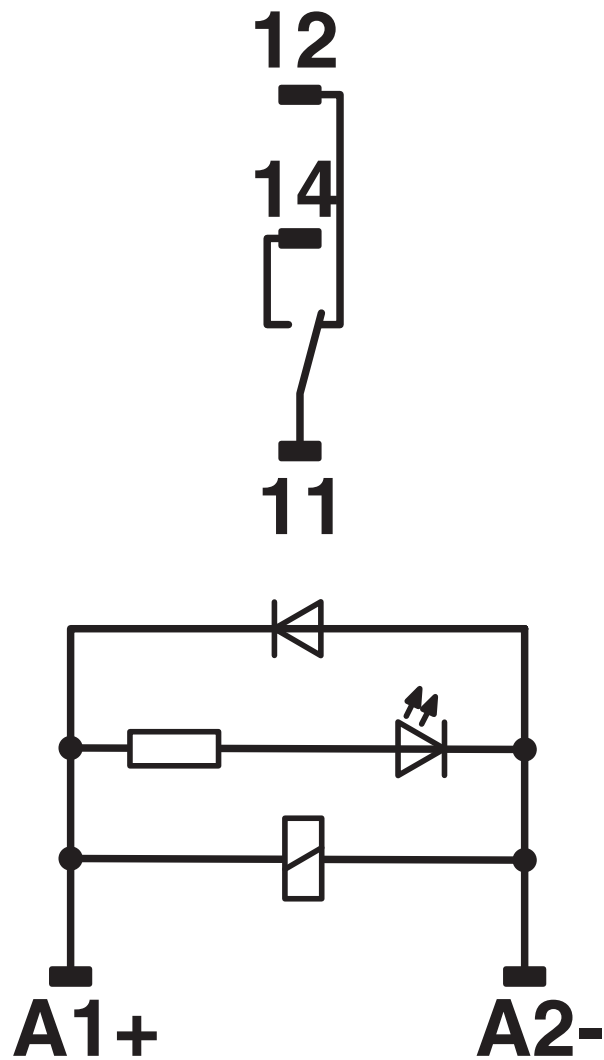
Electrical service life

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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-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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