

# PR1-RSC3-LDP-24DC/2X21 - Relay module



2834481

<https://www.phoenixcontact.com/us/products/2834481>

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Pre-assembled relay modules with screw connection, consisting of: relay base, power contact relay with 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
- Operational reliability thanks to sealed relay
- Logical contact arrangement thanks to 1/3-level relay base

## Commercial data

Item number	2834481
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C463
Product key	DK6319
GTIN	4046356044370
Weight per piece (including packing)	68.41 g
Weight per piece (excluding packing)	65.9 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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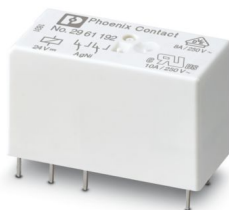
PR1... relay base, for miniature power relays or miniature switching relays with 1 or 2 changeover contacts or solid-state relays of the same design, 1/3-level version, screw connections, plug-in option for input/interference suppression modules

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

2961192

<https://www.phoenixcontact.com/us/products/2961192>



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

<https://www.phoenixcontact.com/us/products/2833657>



Plug-in module, with freewheeling diode and yellow LED, polarity: **A1+**, **A2-**,  
input voltage: 12 ... 24 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	12.09.2025
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### 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
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	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)

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Interrupting rating (ohmic load) max.	2000 W (for 250 V AC)
	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)
Interrupting rating (lamp load) max.	50 mW
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	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

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## Standards and regulations

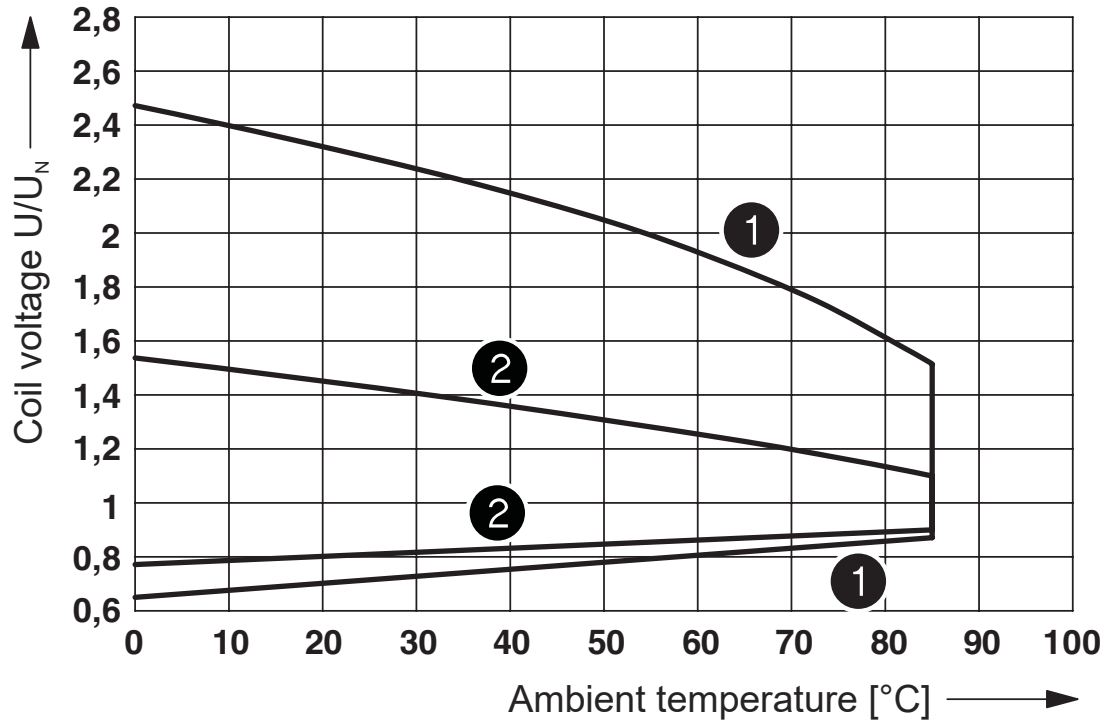
Standards/regulations	IEC 60664
	EN 50178

## Mounting

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

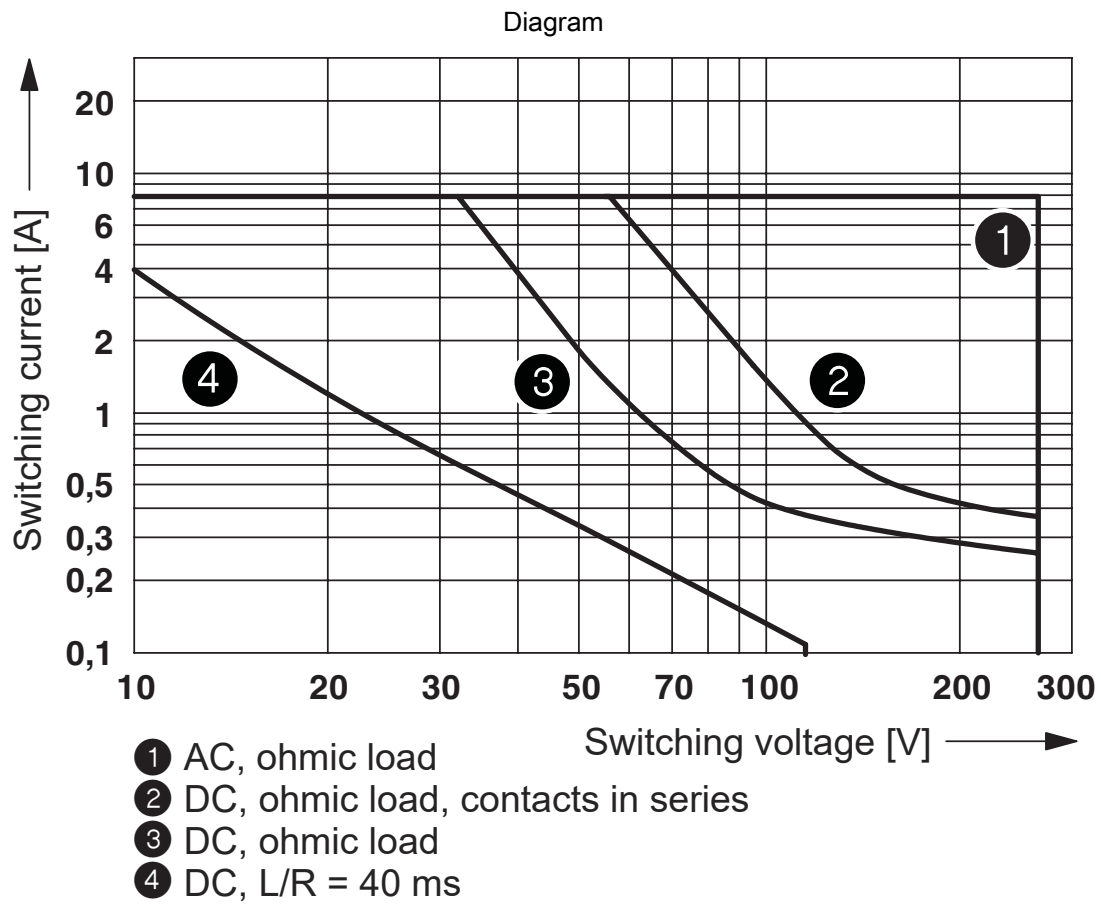
Drawings

Diagram



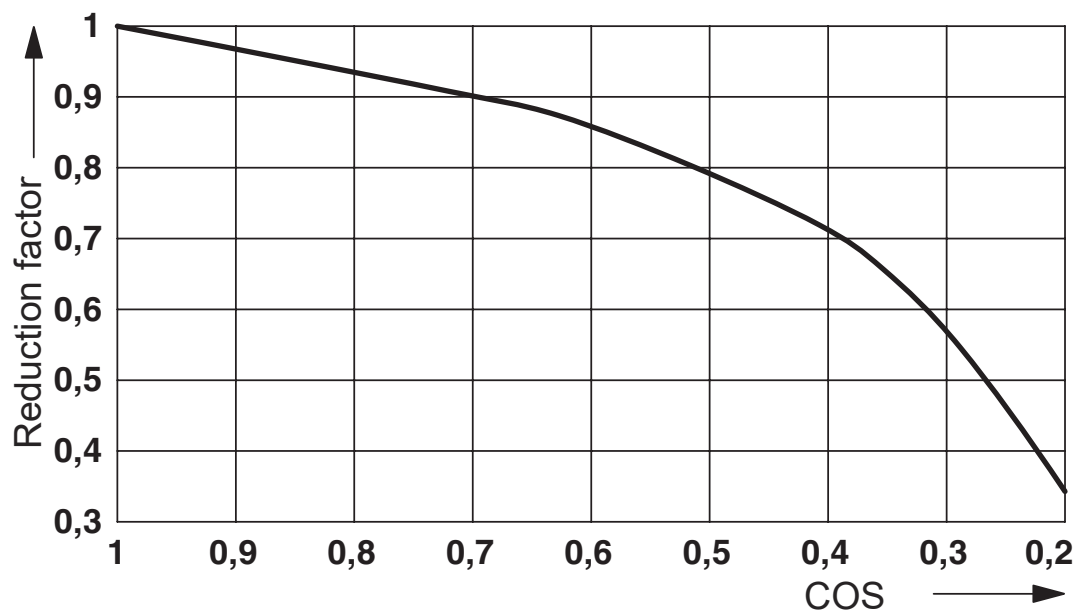
- ① DC coils
- ② AC coils

Operating voltage range of the relay



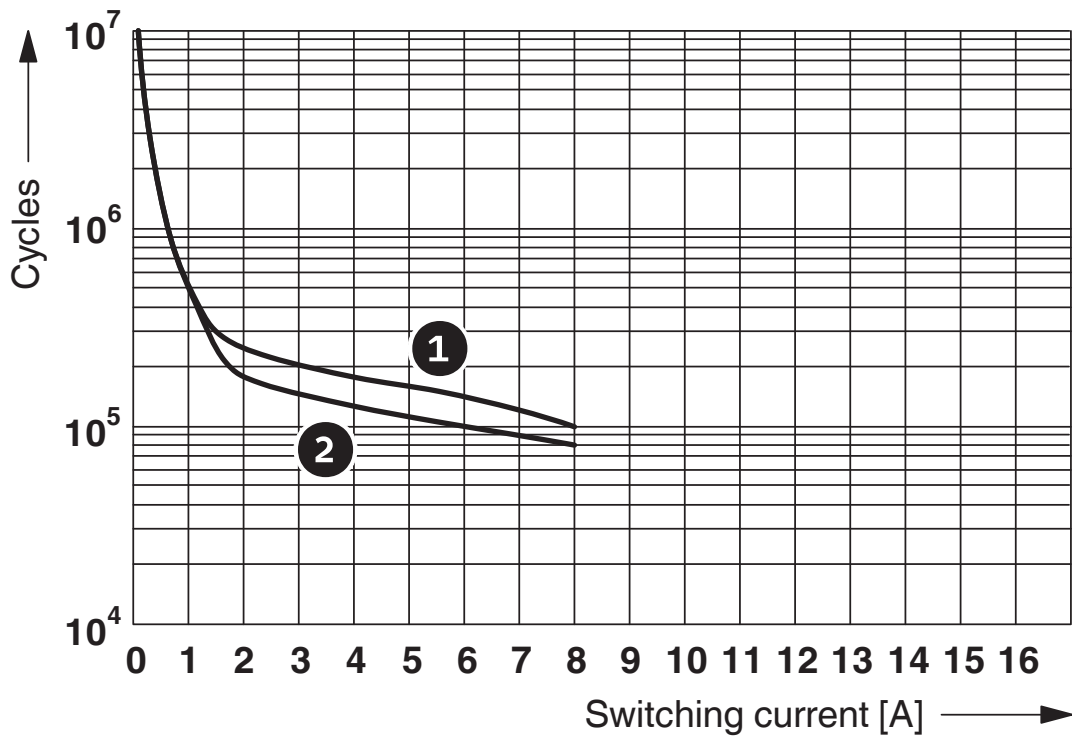
Interrupting rating

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

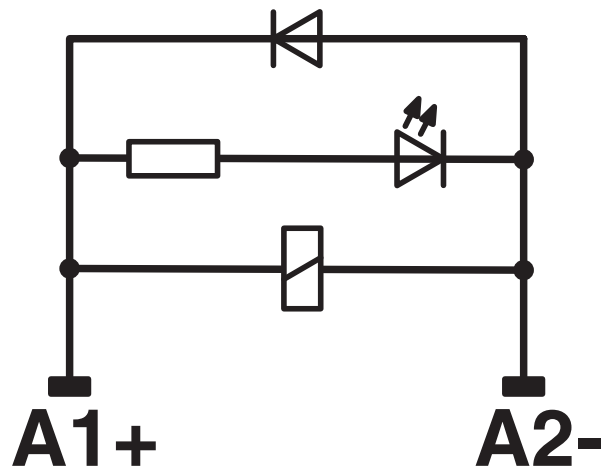
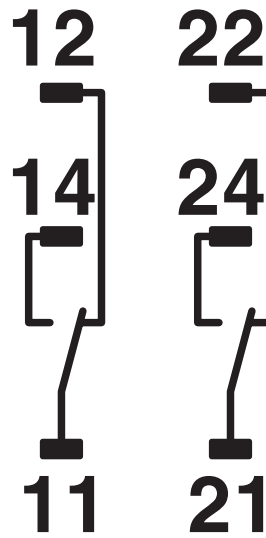
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Circuit diagram



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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