

# PR2-RSP3-LDP-24DC/2X21 - Relay module



2834685

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Fully mounted relay modules with spring-cage connection, consisting of: relay base, plug-in industrial relay with integrated LED, freewheeling diode and engage/disengage manual actuate lever, and relay retaining bracket. Input voltage: 24 V DC, 2 changeover contacts, 10 A

## Your advantages

- Relay with detectable manual operation and status LED
- With DC types, freewheeling diode is integrated in relay
- Logical contact arrangement thanks to 1/3-level relay base
- 4-changeover contact types with multi-layer gold contacts
- Mechanical switch position indicator

## Commercial data

Item number	2834685
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C463
Product key	DK632A
GTIN	4046356044547
Weight per piece (including packing)	143.52 g
Weight per piece (excluding packing)	124.33 g
Customs tariff number	85364900
Country of origin	JP

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## Set consists of

### PR2-BSP3/4X21 - Relay base

2833589

<https://www.phoenixcontact.com/us/products/2833589>



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

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### REL-IR/LDP- 24DC/2X21 - Single relay

2834025

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Plug-in industrial relay with power contacts, 2 changeover contacts, test button, status LED, freewheeling diode, mechanical switching position indicator, polarity **A1+**, **A2-**, input voltage 24 V DC

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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

## Technical data

### Product properties

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

### Insulation characteristics

Overvoltage category	II
Pollution degree	3

### Data management status

Date of last data management	01.04.2026
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### Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.91 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>	24 V DC
Input voltage range	18.7 V DC ... 36 V DC
Drive and function	monostable
Typical input current at U <sub>N</sub>	38 mA
Typical response time	13 ms
Typical release time	5 ms
Protective circuit	Freewheeling diode
Operating voltage display	Green LED

### Output data

#### Switching

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	Ag
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V
Limiting continuous current	10 A
Maximum inrush current	20 A (15 ms)
Min. switching current	1 mA
	240 W (at 24 V DC)

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Interrupting rating (ohmic load) max.	144 W (at 48 V DC)
	108 W (at 60 V DC)
	72 W (at 110 V DC)
	110 W (at 220 V DC)
	2500 VA (for 250 V AC)

## Connection data

### Coil side

Connection method	Spring-cage connection
Stripping length	12 mm
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 16

### Contact side

Connection method	Spring-cage connection
Stripping length	12 mm
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 16

## Dimensions

Width	31 mm
Height	95 mm
Depth	84 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 ... 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

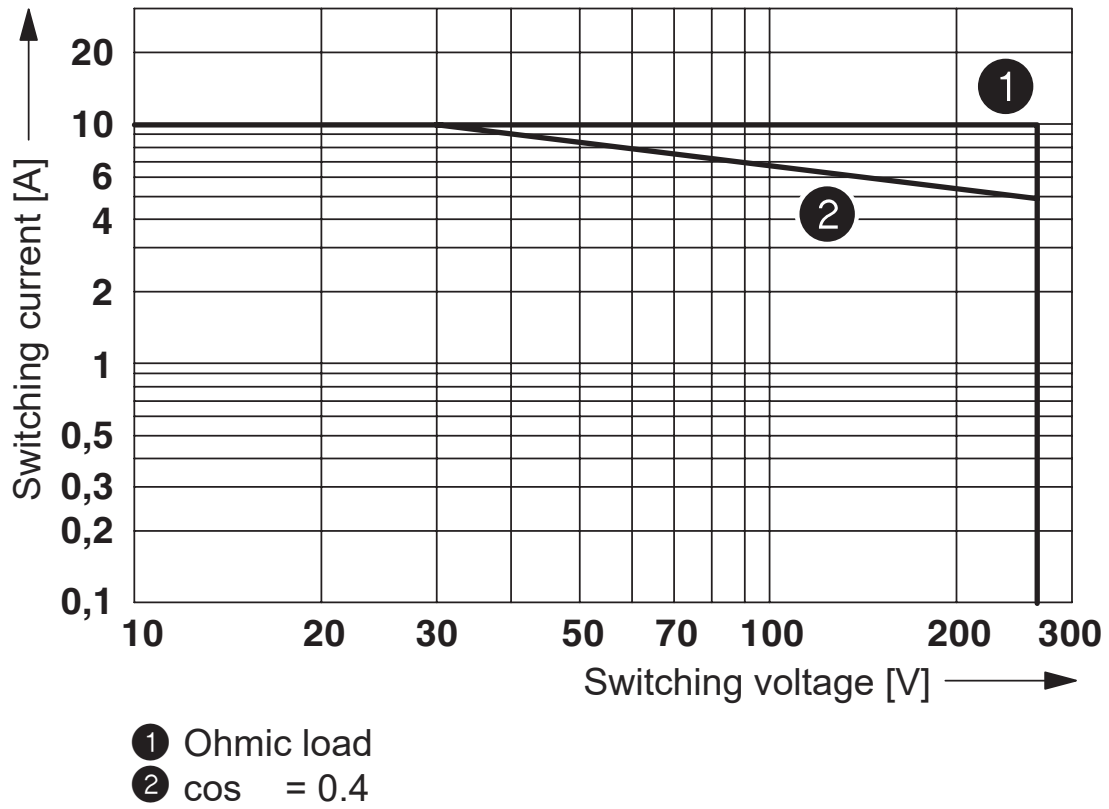
Drawings

Diagram

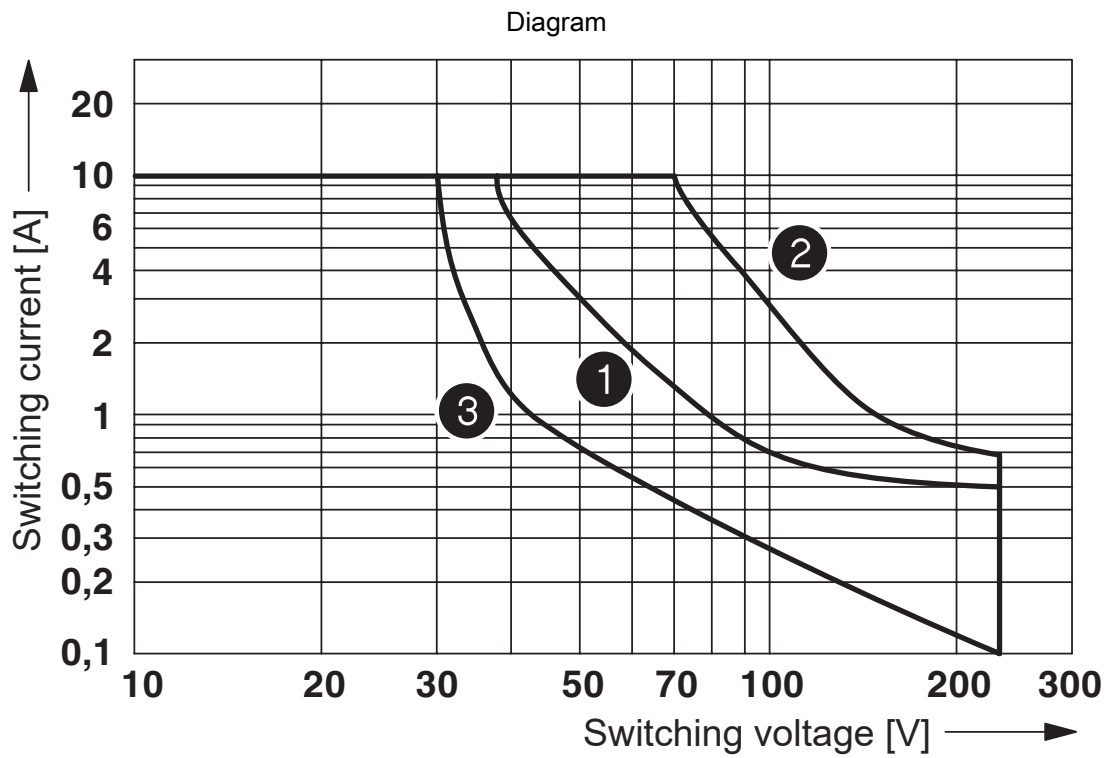


Operating voltage range of relay  $T_u=T_{coil}$

Diagram

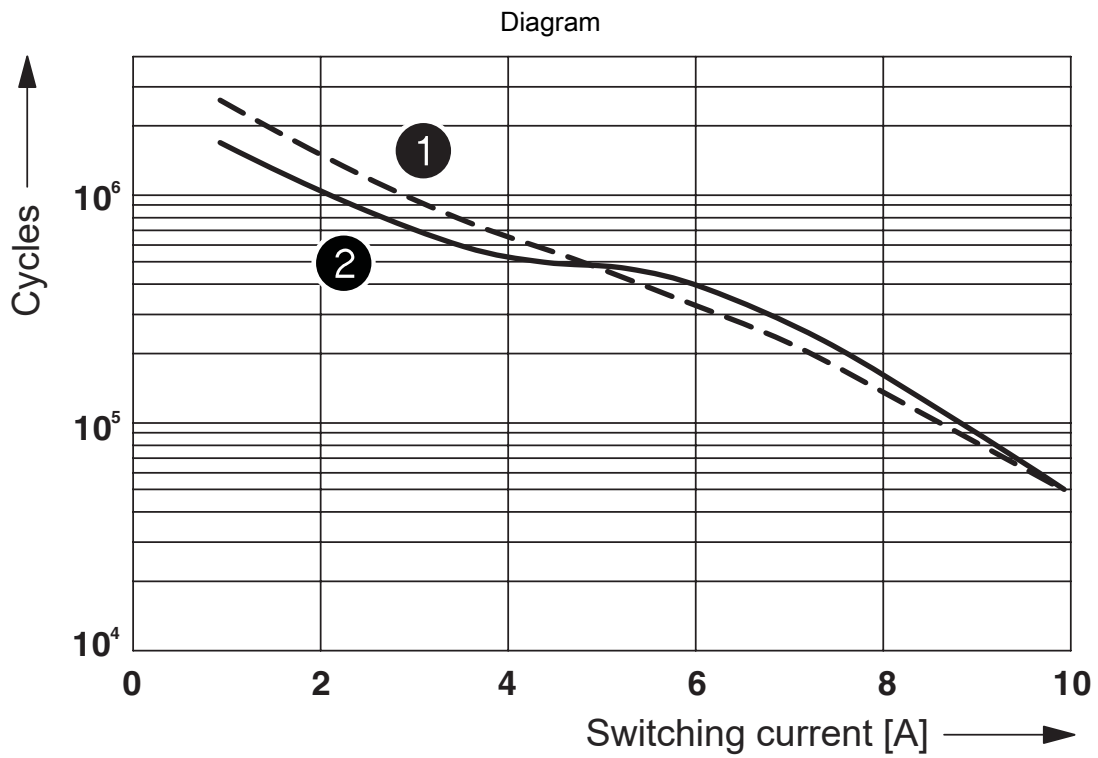


AC interrupting rating



- ① Ohmic load
- ② ohmic load, contacts in series
- ③  $L/R < 7$  ms

DC interrupting rating



- ① 250 V AC, ohmic load
- ② 30 V DC, ohmic load

Electrical service life

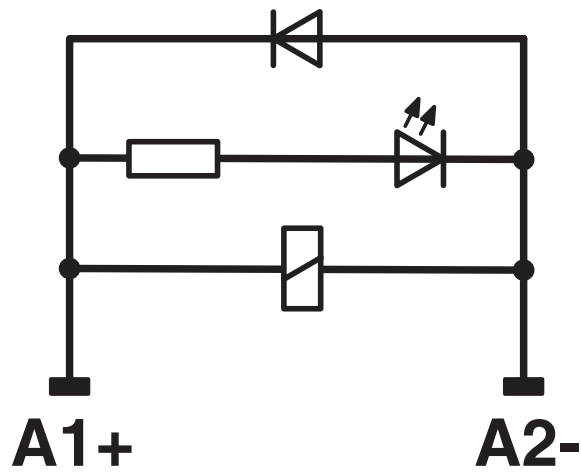
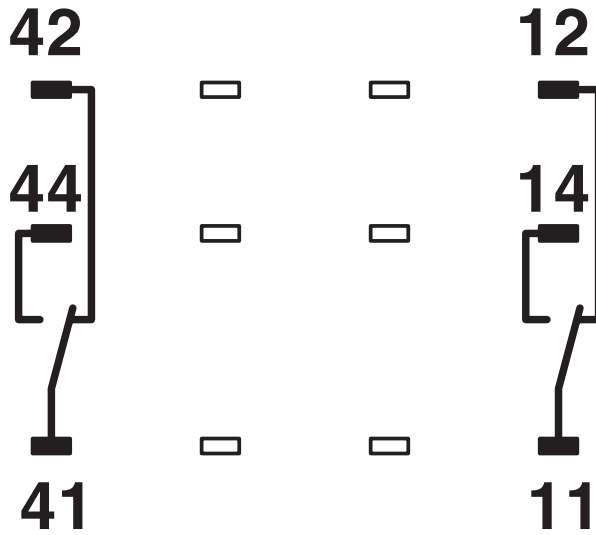
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Circuit diagram



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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