

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



2834685

<https://www.phoenixcontact.com/us/products/2834685>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

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



2834685

<https://www.phoenixcontact.com/us/products/2834685>

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

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

2834025

<https://www.phoenixcontact.com/us/products/2834025>



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

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

2834685

<https://www.phoenixcontact.com/us/products/2834685>



EL2-P35 - Retaining bracket

2833592

<https://www.phoenixcontact.com/us/products/2833592>



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

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



2834685

<https://www.phoenixcontact.com/us/products/2834685>

Technical data

Product properties

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

Insulation characteristics

Overvoltage category	II
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	0.91 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 _N	24 V DC
Input voltage range	18.7 V DC ... 36 V DC
Drive and function	monostable
Typical input current at U _N	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)

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



2834685

<https://www.phoenixcontact.com/us/products/2834685>

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 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	12 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	31 mm
Height	95 mm
Depth	84 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 ... 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

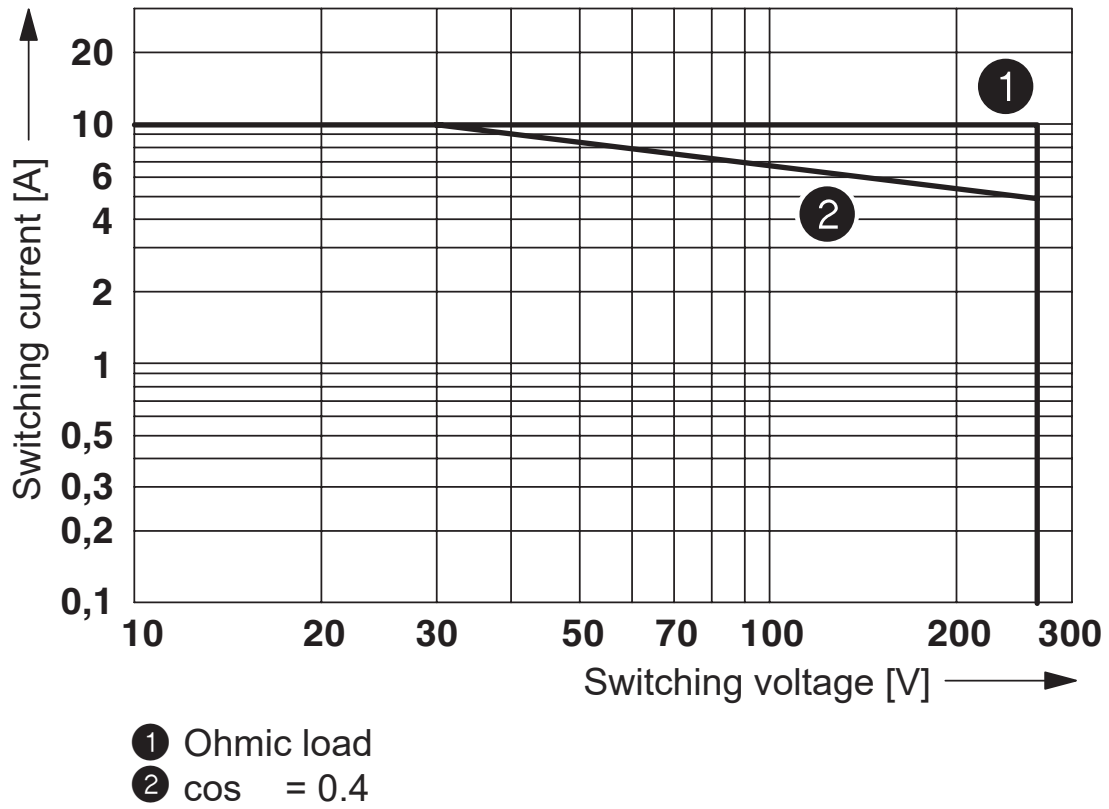
Drawings

Diagram

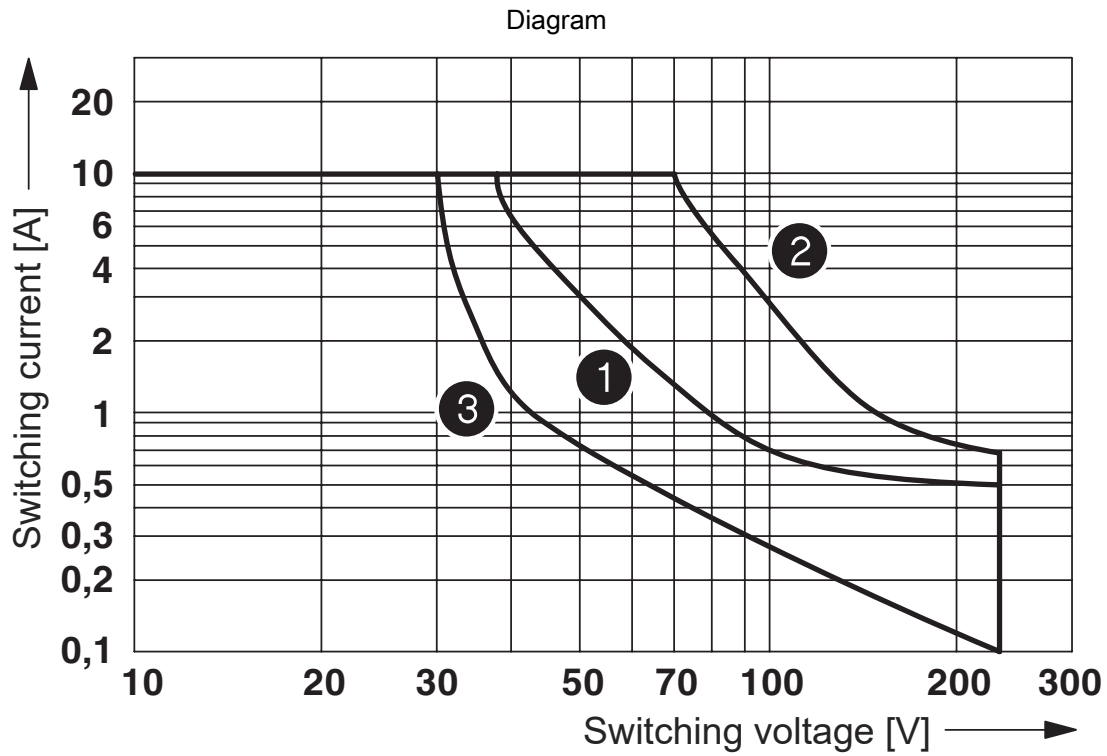


Operating voltage range of relay $T_u=T_{coil}$

Diagram

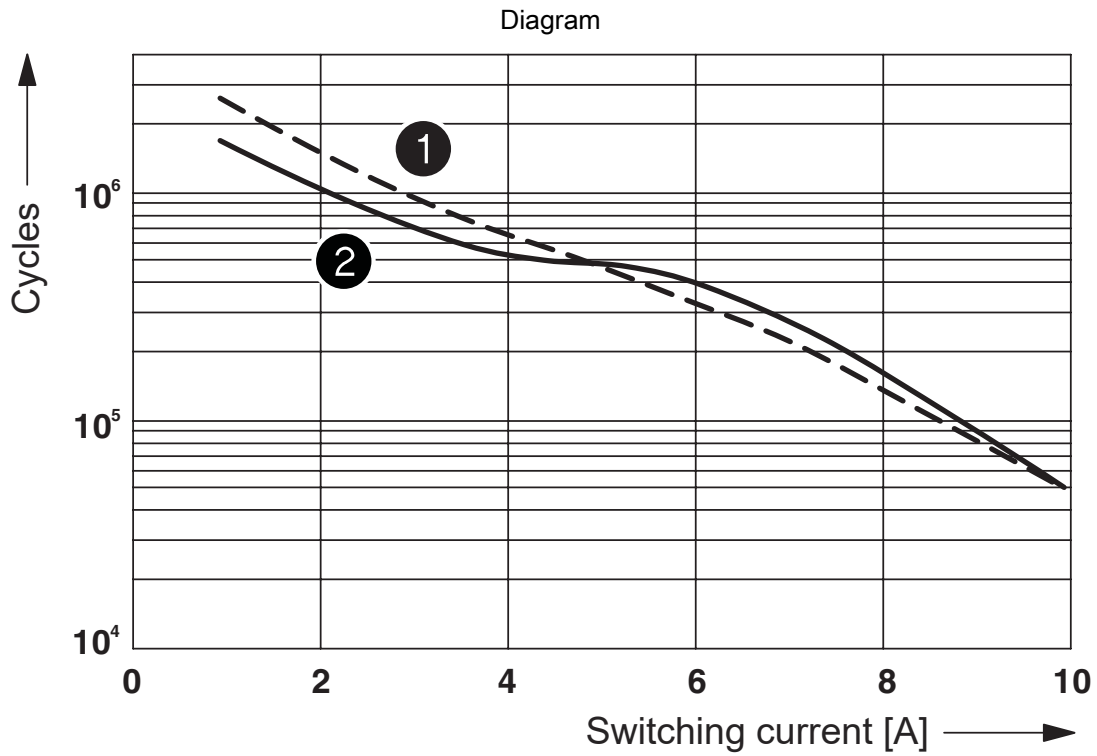


AC interrupting rating



- 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

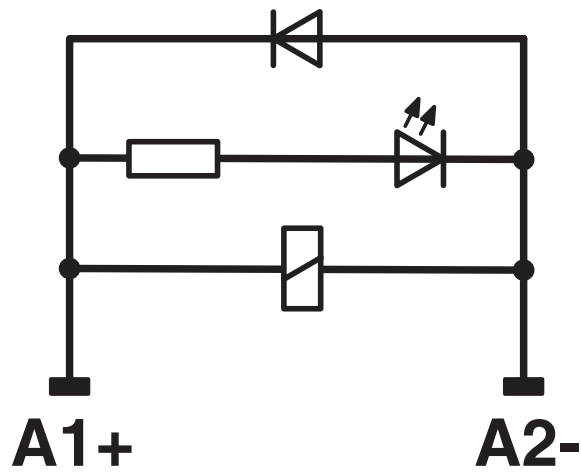
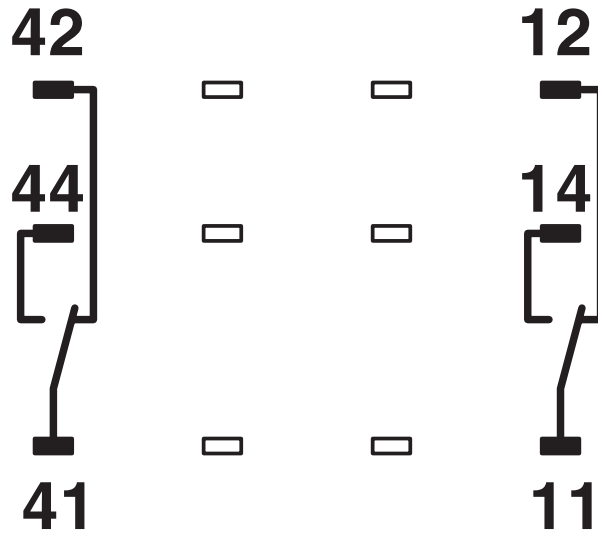
PR2-RSP3-LDP-24DC/2X21 - Relay module



2834685

<https://www.phoenixcontact.com/us/products/2834685>

Circuit diagram



DC coils

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



2834685

<https://www.phoenixcontact.com/us/products/2834685>

Classifications

UNSPSC

UNSPSC 21.0	39122334
-------------	----------

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



2834685

<https://www.phoenixcontact.com/us/products/2834685>

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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

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