

Relay Module - PR1-RSC3-LDP-24DC/2X21AU



2834520
<https://www.phoenixcontact.com/us/products/2834520>

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.



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

Commercial Data

Item number	2834520
Packing unit	1 pc
Minimum order quantity	5 pc
Note	Made to Order (non-returnable)
Sales Key	C05
Product Key	CK631G
Catalog Page	Page 395 (C-7-2015)
GTIN	4046356044417
Weight per Piece (including packing)	68.16 g
Weight per Piece (excluding packing)	65.5 g
Customs tariff number	85364900
Country of origin	CN

Relay Module - PR1-RSC3-LDP-24DC/2X21AU



2834520

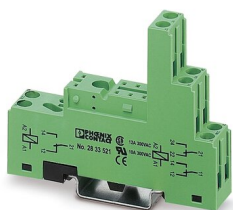
<https://www.phoenixcontact.com/us/products/2834520>

Set consists of

Relay base

Relay base - PR1-BSC3/2X21 - 2833521

<https://www.phoenixcontact.com/us/products/2833521>

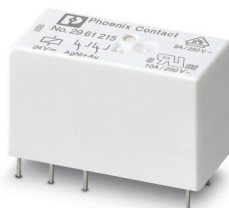


PR1... relay base, for miniature power relays or miniature switching relays with 1 or 2 changeover contacts or solid-state relays of the same design, 1/3-level version, screw connections, plug-in option for input/interference suppression modules

Single relay

Single relay - REL-MR- 24DC/21-21AU - 2961215

<https://www.phoenixcontact.com/us/products/2961215>



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

Relay Module - PR1-RSC3-LDP-24DC/2X21AU



2834520

<https://www.phoenixcontact.com/us/products/2834520>

Plug-in module

Plug-in module - LDP- 12- 24DC - 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 $\pm 20\%$

Retaining bracket

Retaining bracket - EL1-P16 - 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

Relay Module - PR1-RSC3-LDP-24DC/2X21AU



2834520

<https://www.phoenixcontact.com/us/products/2834520>

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

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
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 type	2 changeover contacts
Type of switch contact	Single contact
Drive and function	monostable
Contact material	AgNi, hard gold-plated
Maximum switching voltage	30 V AC 36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA (at 24 V)
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)

Switching: when the gold layer is destroyed

Relay Module - PR1-RSC3-LDP-24DC/2X21AU



2834520

<https://www.phoenixcontact.com/us/products/2834520>

Note	the following values are applicable if a gold layer is destroyed
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V
Limiting continuous current	8 A
Maximum inrush current	15 A (300 ms)
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	2000 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.2 A (at 250 V, DC13)
	2 A (at 24 V, AC15)
	2 A (at 120 V, AC15)
	2 A (at 250 V, AC15)

Connection data

Coil side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	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 solid	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

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

Relay Module - PR1-RSC3-LDP-24DC/2X21AU



2834520

<https://www.phoenixcontact.com/us/products/2834520>

Standards/regulations	IEC 60664
	EN 50178

Mounting

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

Relay Module - PR1-RSC3-LDP-24DC/2X21AU

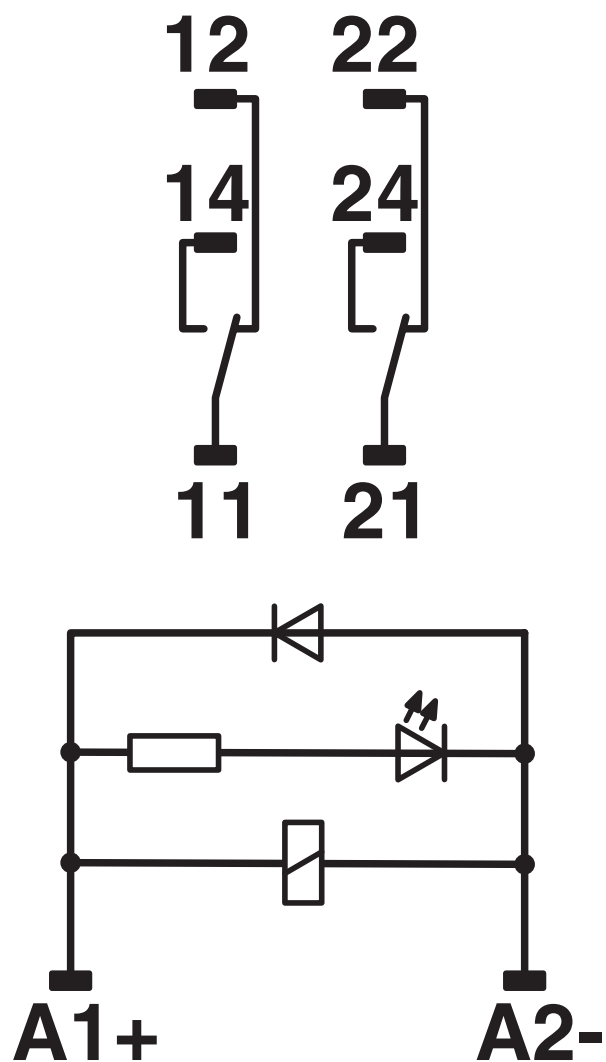
2834520

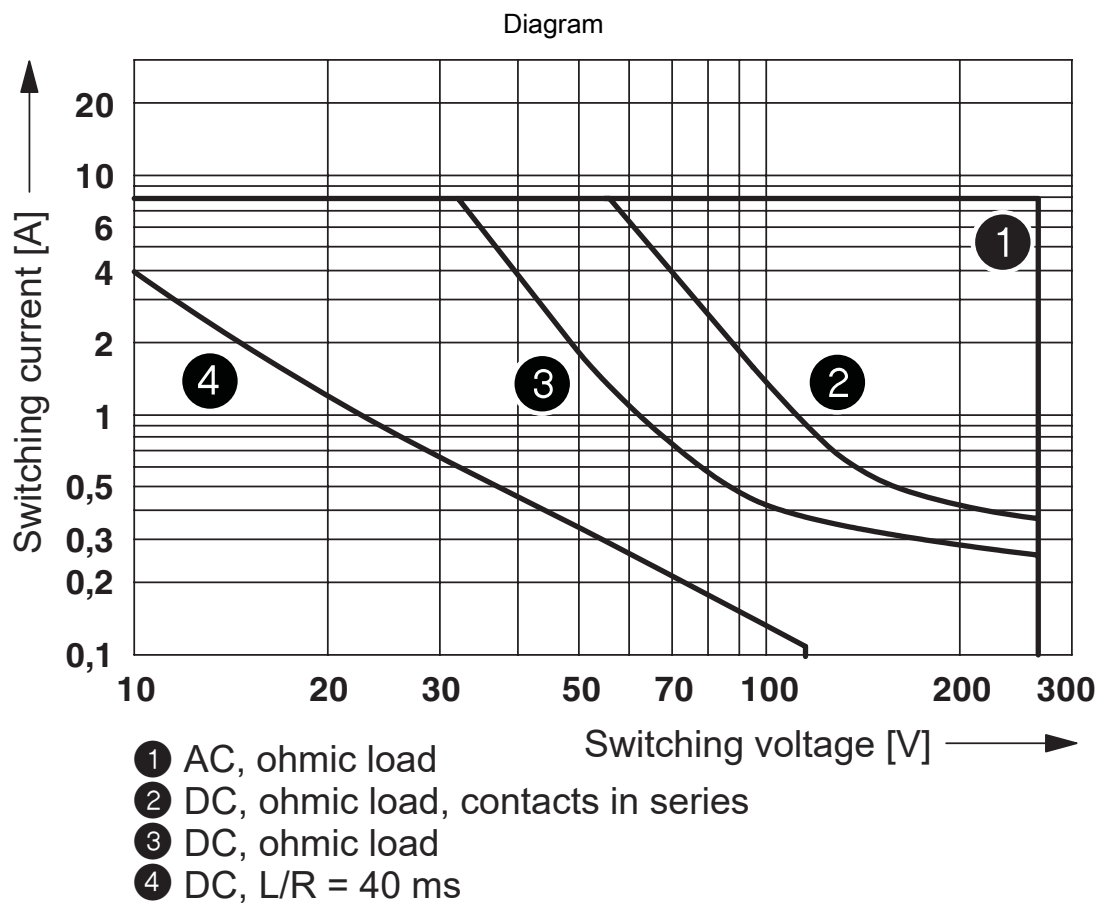
<https://www.phoenixcontact.com/us/products/2834520>



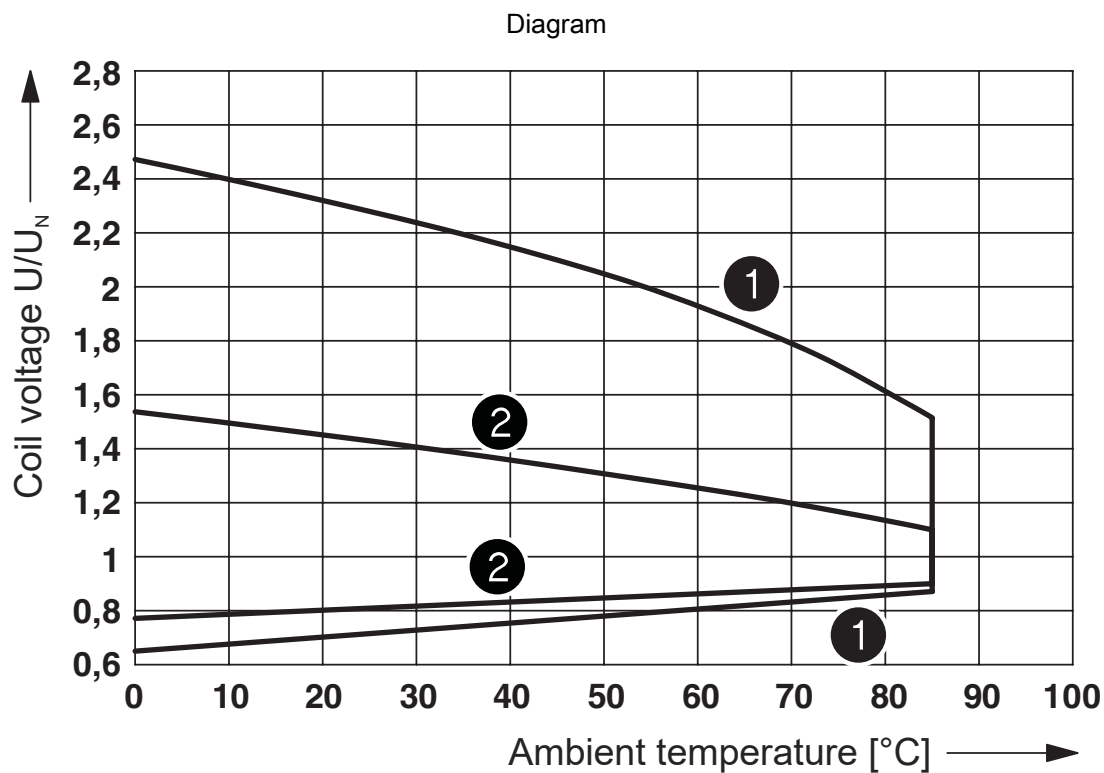
Drawings

Circuit diagram





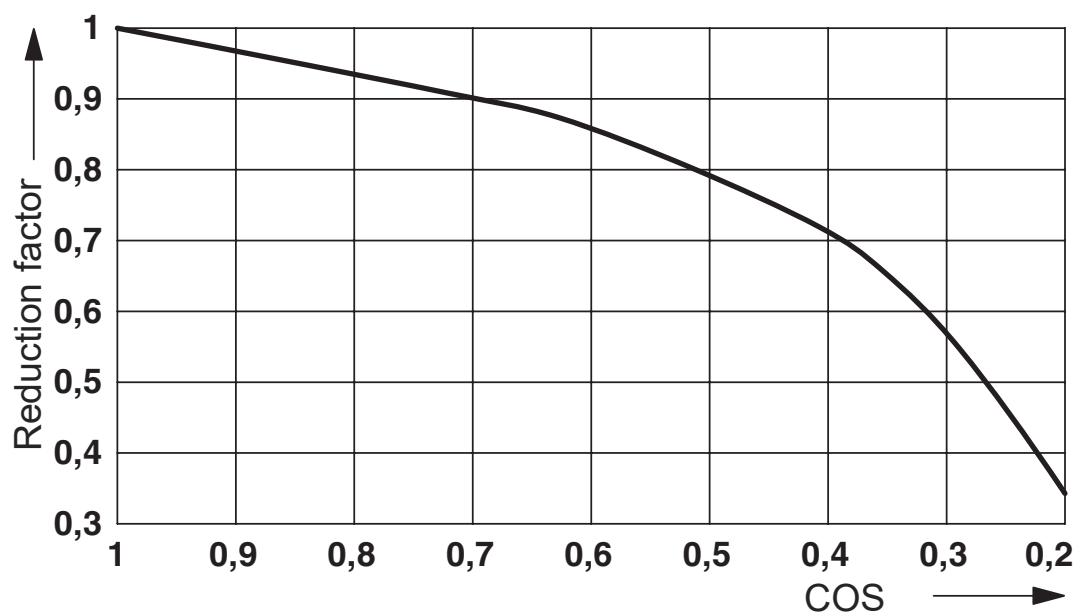
Interrupting rating



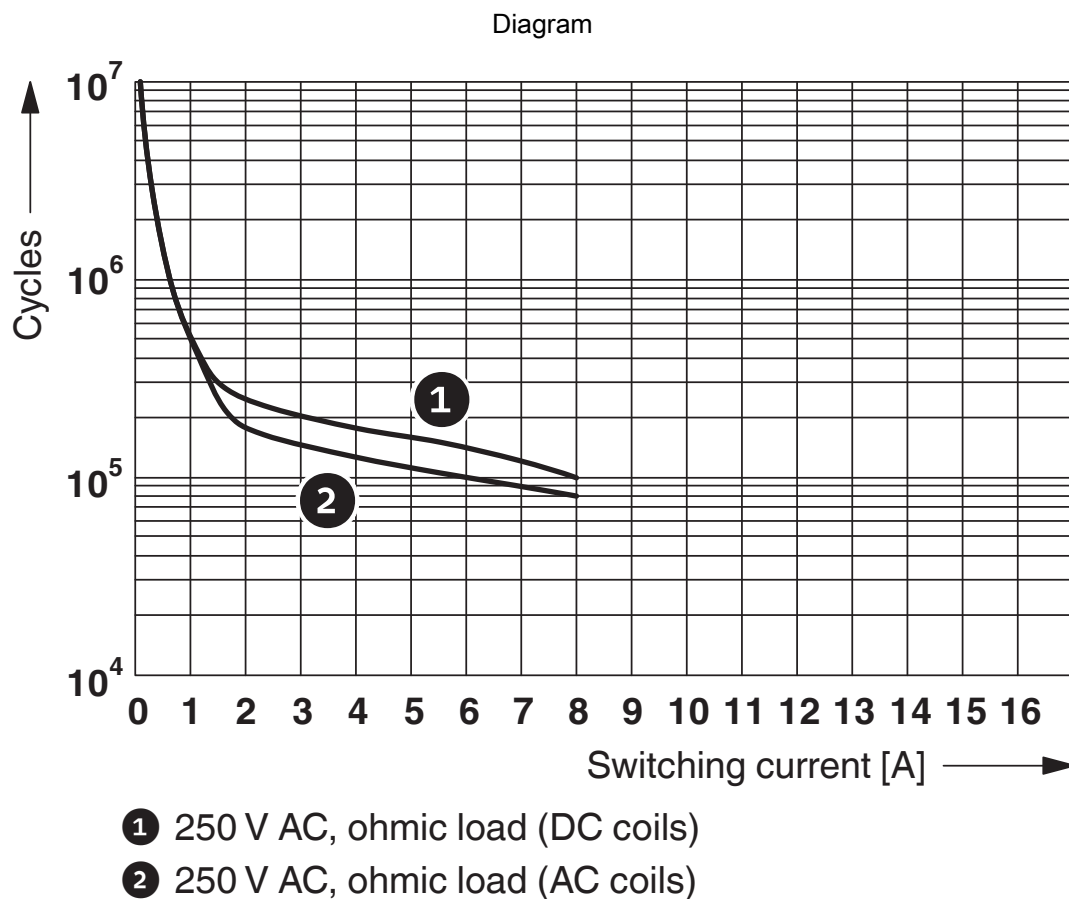
- ① DC coils
- ② AC coils

Operating voltage range of the relay

Diagram



Service life reduction factor with various cos phi



Electrical service life

Relay Module - PR1-RSC3-LDP-24DC/2X21AU



2834520

<https://www.phoenixcontact.com/us/products/2834520>

Classifications

ECLASS

ECLASS-9.0	27371601
ECLASS-10.0.1	27371601
ECLASS-11.0	27371601

ETIM

ETIM 7.0	EC001437
----------	----------

UNSPSC

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

Relay Module - PR1-RSC3-LDP-24DC/2X21AU



2834520

<https://www.phoenixcontact.com/us/products/2834520>

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Relay Module - PR1-RSC3-LDP-24DC/2X21AU



2834520

<https://www.phoenixcontact.com/us/products/2834520>

Accessories

Marker labels

Marker labels - MP 1 - 2833631

<https://www.phoenixcontact.com/us/products/2833631>

Equipment marker, labeling surface 6 x 15 mm



Label

Label - EML (15X6)R YE - 0819288

<https://www.phoenixcontact.com/us/products/0819288>



Label, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMaster 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 15 x 6 mm, Number of individual labels: 2500

Relay Module - PR1-RSC3-LDP-24DC/2X21AU



2834520

<https://www.phoenixcontact.com/us/products/2834520>

Wire bridge

Wire bridge - DB 50- 90 BU - 2821180

<https://www.phoenixcontact.com/us/products/2821180>

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm^2 , loop length: 90 mm, ferrule length: 8 mm, color: blue



Wire bridge

Wire bridge - DB 50- 90 BK - 2820916

<https://www.phoenixcontact.com/us/products/2820916>

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm^2 , loop length: 90 mm, ferrule length: 8 mm, color: black



Relay Module - PR1-RSC3-LDP-24DC/2X21AU



2834520

<https://www.phoenixcontact.com/us/products/2834520>

Wire bridge

Wire bridge - DB 50- 90 GY - 2820929

<https://www.phoenixcontact.com/us/products/2820929>

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm², loop length: 90 mm, ferrule length: 8 mm, color: gray



Phoenix Contact 2023 © - 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