

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



2834368

<https://www.phoenixcontact.com/us/products/2834368>

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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, 1 changeover contact, 12 A

Your advantages

- Safe isolation between coil and contact side
- Logical contact arrangement thanks to 1/3-level relay base
- Operational reliability thanks to sealed relay

Commercial data

Item number	2834368
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C463
Product key	DK631G
GTIN	4046356044257
Weight per piece (including packing)	69.04 g
Weight per piece (excluding packing)	66.24 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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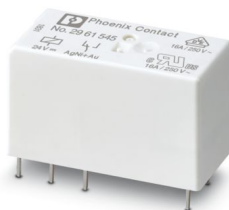


PR1... relay base, for miniature power relays or miniature switching relays with 1 or 2 changeover contacts or solid-state relays of the same design, 1/3-level version, screw connections, plug-in option for input/interference suppression modules

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

2961545

<https://www.phoenixcontact.com/us/products/2961545>



Plug-in miniature power relay, with multi-layer gold 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 $\pm 20\%$

EL1-P16 - Retaining bracket

2833547

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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
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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)

Input data

Coil side

Nominal input voltage U_N	24 V DC
Input voltage range	15.6 V DC ... 57.6 V DC
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, 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)

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Switching capacity	2 A (at 24 V, AC15)
Switching: when the gold layer is destroyed	
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	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)
Interrupting rating (ohmic load) max.	3000 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 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)
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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

Standards and regulations

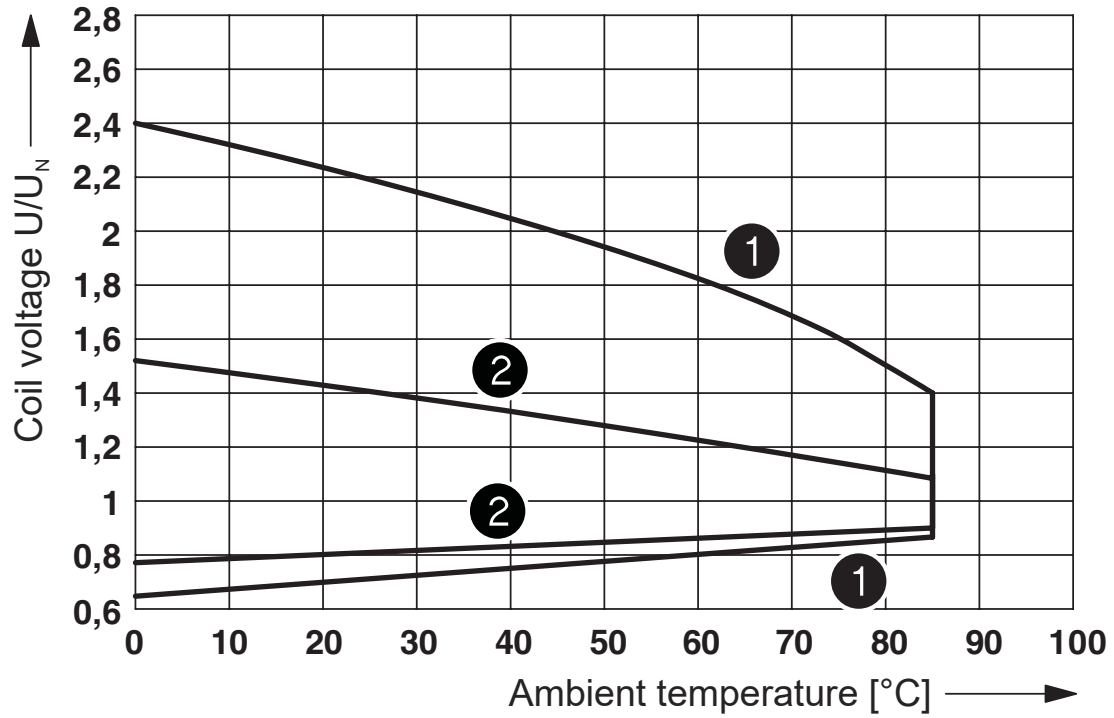
Standards/regulations	IEC 60664
	EN 50178

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



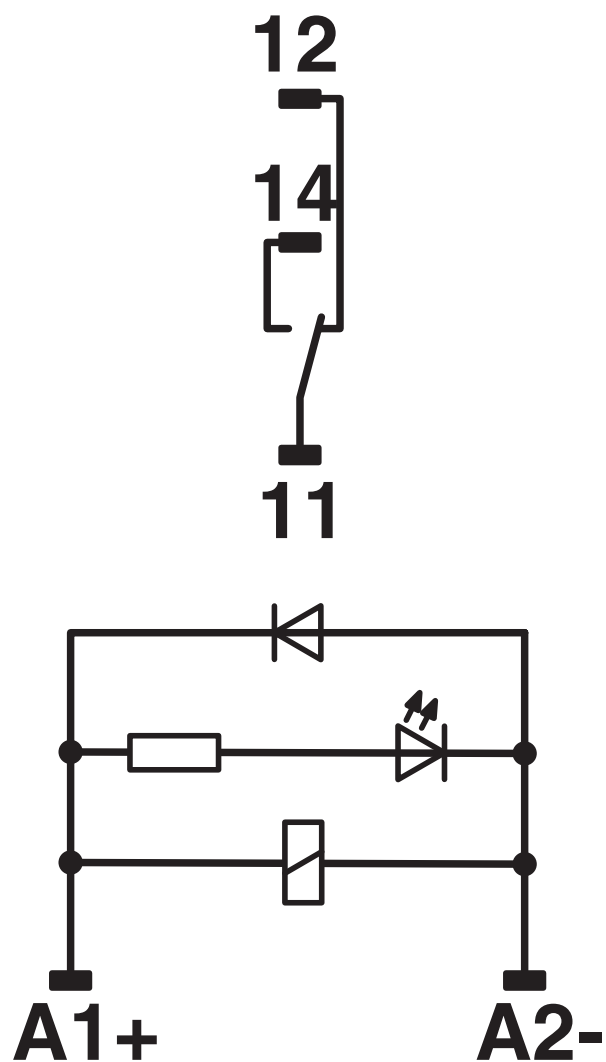
- ① 250 V AC, ohmic load (DC coils)
- ② 250 V AC, ohmic load (AC coils)

Electrical service life

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Circuit diagram



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Classifications

UNSPSC

UNSPSC 21.0	39122334
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com