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

2834326

https://www.phoenixcontact.com/gb/products/2834326

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

Commercial data

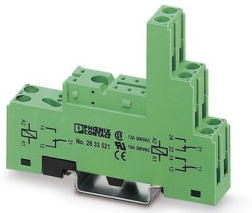
Item number	2834326
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	DK6319
Product key	DK6319
GTIN	4046356044219
Weight per piece (including packing)	69.22 g
Weight per piece (excluding packing)	67.34 g
Customs tariff number	85364900
Country of origin	Information on the country of origin is provided with the delivery.

Set consists of

PR1-BSC3/2X21 - Relay base

2833521

https://www.phoenixcontact.com/gb/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

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

2961312

https://www.phoenixcontact.com/gb/products/2961312



Plug-in miniature power relay, with power contact for high continuous currents, 1 changeover contact, input voltage 24 V DC

LDP- 12- 24DC - Plug-in module

2833657

https://www.phoenixcontact.com/gb/products/2833657



Plug-in module, with freewheeling diode and yellow LED, polarity: A1+, A2-, input voltage: 12 ... 24 V DC ±20 %

EL1-P16 - Retaining bracket

2833547

https://www.phoenixcontact.com/gb/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

MP 1 - Marker labels

2833631

https://www.phoenixcontact.com/gb/products/2833631

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

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
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	1 changeover contact
Type of switch contact	Single contact
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)
	3000 W (for 250 V AC)

Interrupting rating (ohmic load) max.	50 W (at 110 V DC)
	80 W (at 220 V DC)
	288 W (at 24 V DC)
	58 W (at 48 V DC)
	48 W (at 60 V DC)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.2 A (at 250 V, DC13)
	6 A (at 24 V, AC15)
	6 A (at 120 V, AC15)
	6 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 mm² ... 2.5 mm²
Conductor cross-section flexible	0.14 mm² ... 2.5 mm²
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 mm² ... 2.5 mm²
Conductor cross-section flexible	0.14 mm² ... 2.5 mm²
Conductor cross-section AWG	26 ... 14

Dimensions

Width	16 mm
Height	78.5 mm
Depth	71 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 ... 85 °C

Standards and regulations

Standards/regulations	IEC 60664

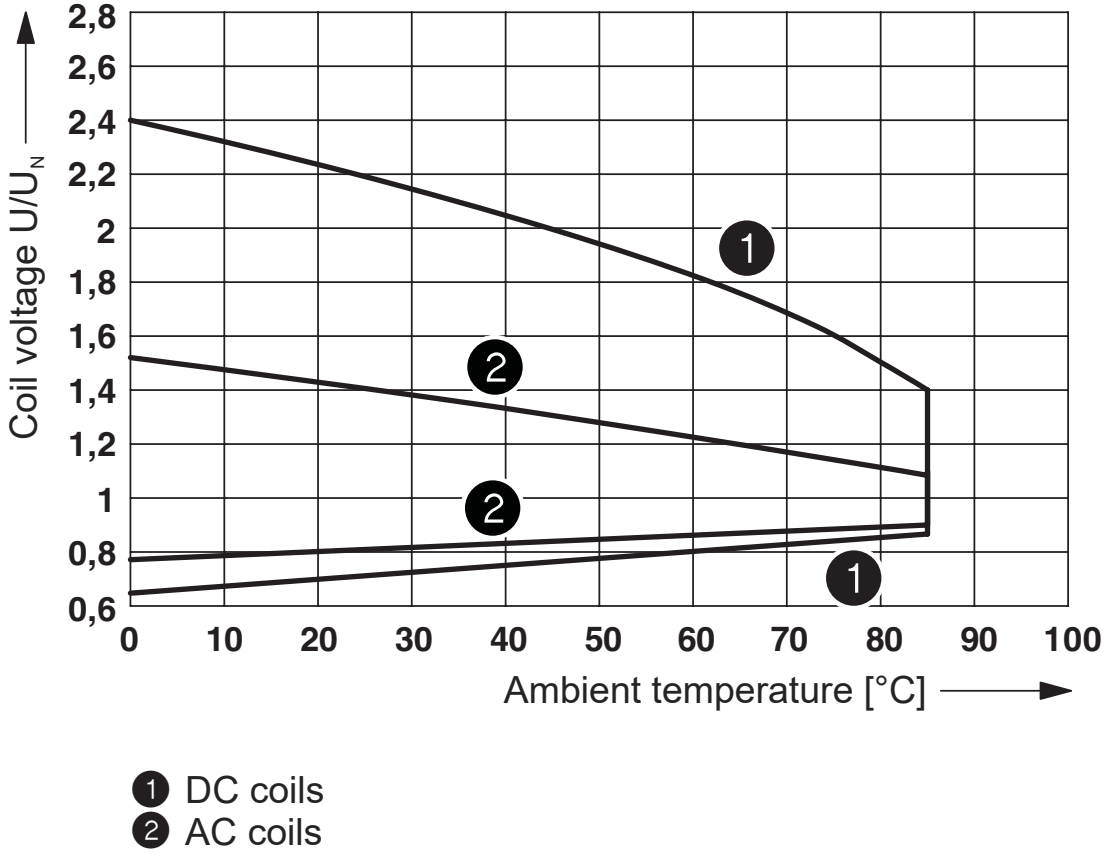
	EN 50178

Mounting

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

Drawings

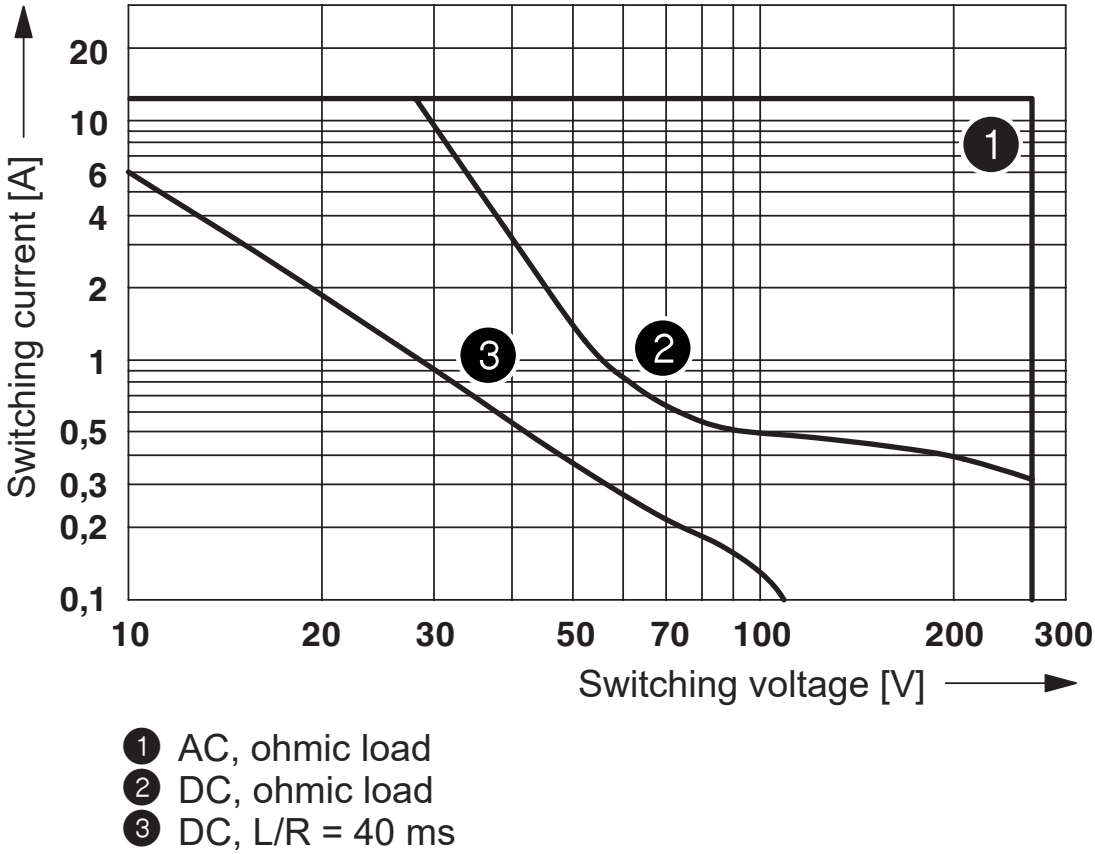
Diagram



1 DC coils
2 AC coils

Operating voltage range of the relay

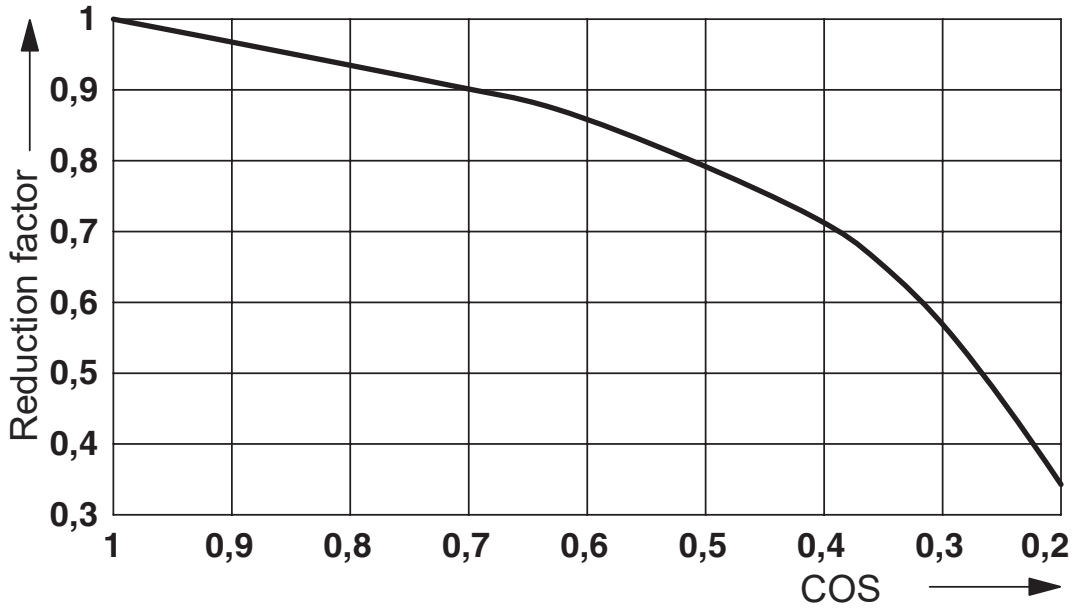
Diagram



1 AC, ohmic load
2 DC, ohmic load
3 DC, L/R = 40 ms

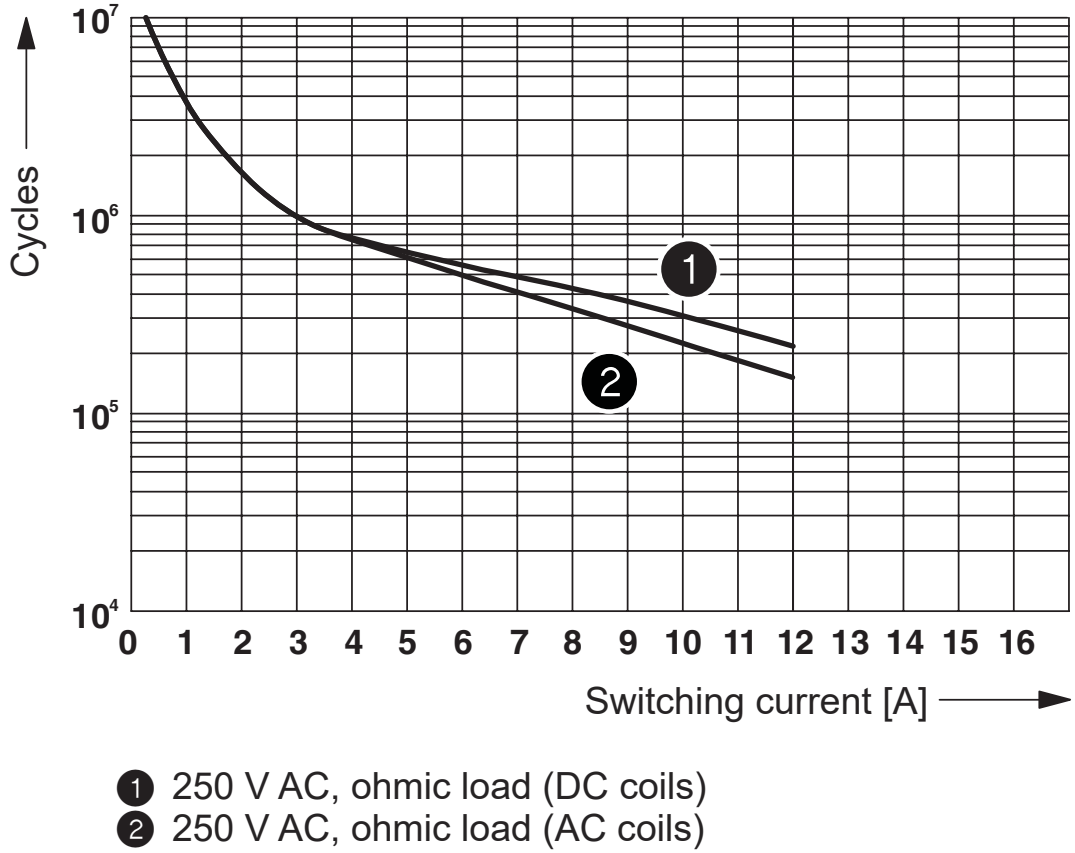
Interrupting rating

Diagram



Service life reduction factor

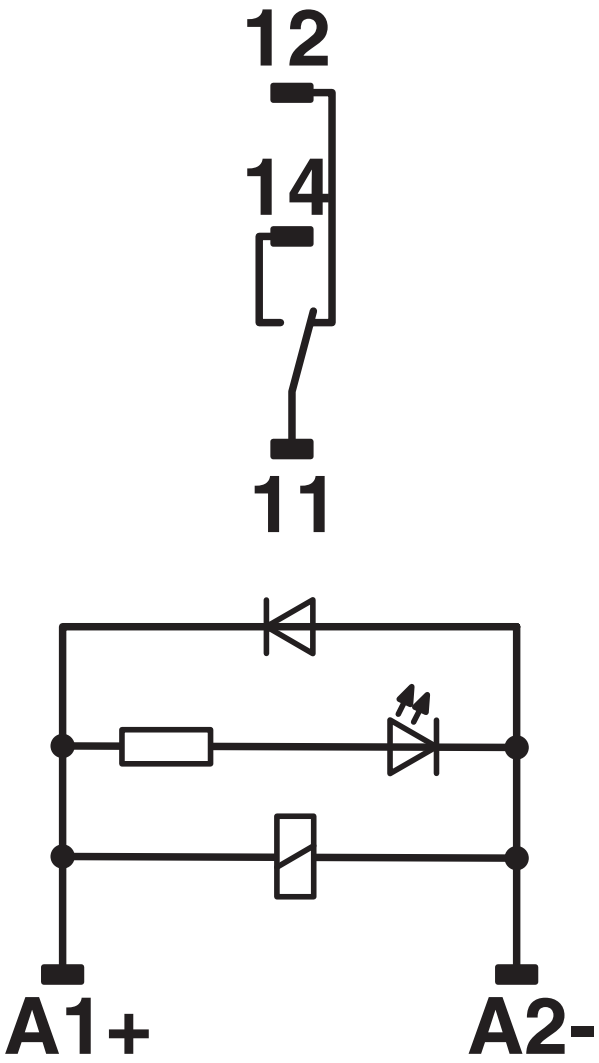
Diagram



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

Electrical service life

Circuit diagram



DC coils

Classifications

UNSPSC

UNSPSC 21.0	39122334

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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