

2834384

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Pre-assembled PR1-RSC... relay modules with screw connection, consisting of: relay base, multi-layer contact relay, plug-in display/interference suppression module, and retaining bracket. Input voltage: 120 V AC, 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	2834384
Packing unit	5 pc
Minimum order quantity	5 pc
Note	Made to order (non-returnable)
Sales key	CK6
Product key	CK631G
Catalog page	Page 394 (C-7-2015)
GTIN	4046356044271
Weight per piece (including packing)	68.53 g
Weight per piece (excluding packing)	65.66 g
Customs tariff number	85364900
Country of origin	CN

PR1-RSC3-LV-120AC/21AU - Relay Module



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Set consists of

PR1-BSC3/2X21 - Relay base

2833521

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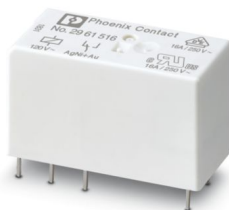


PR1... relay base, for miniature power relays or miniature switching relays with 1 or 2 changeover contacts or solid-state relays of the same design, 1/3-level version, screw connections, plug-in option for input/interference suppression modules

REL-MR-120AC/21HC AU - Single relay

2961516

<https://www.phoenixcontact.com/it/products/2961516>



Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 changeover contact, input voltage 120 V AC

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LV-120-230AC/110DC - Plug-in module

2833738

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Plug-in module, with varistor and yellow LED, input voltage: 120 ... 230 V AC / 110 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



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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	1.08 W
Test voltage (Winding/contact)	4 kV (50 Hz, 1 min., winding/contact)

Input data

Coil side

Nominal input voltage U _N	120 V AC
Input voltage range	93.6 V AC ... 186 V AC
Drive and function	monostable
Typical input current at U _N	9 mA (at 50 Hz)
	7 mA (At 60 Hz)
Typical response time	3 ms ... 12 ms
Typical release time range	1.5 ms ... 16 ms
Protective circuit	Varistor
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)
Switching capacity	2 A (at 24 V, AC15)

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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

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Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C

Standards and regulations

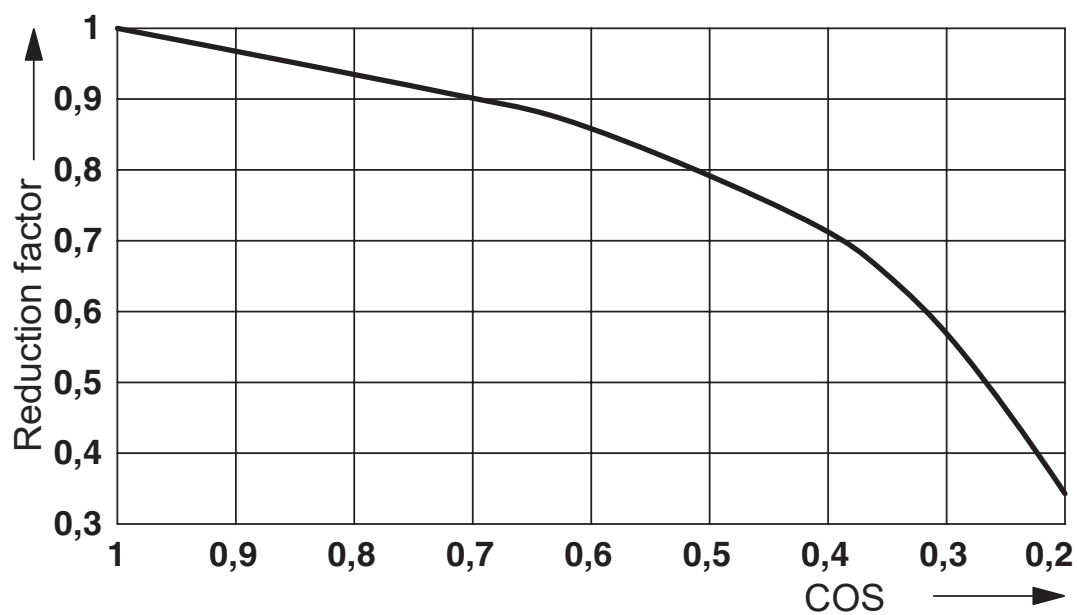
Standards/regulations	IEC 60664
	EN 50178

Mounting

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

Drawings

Diagram



Service life reduction factor with various cos phi

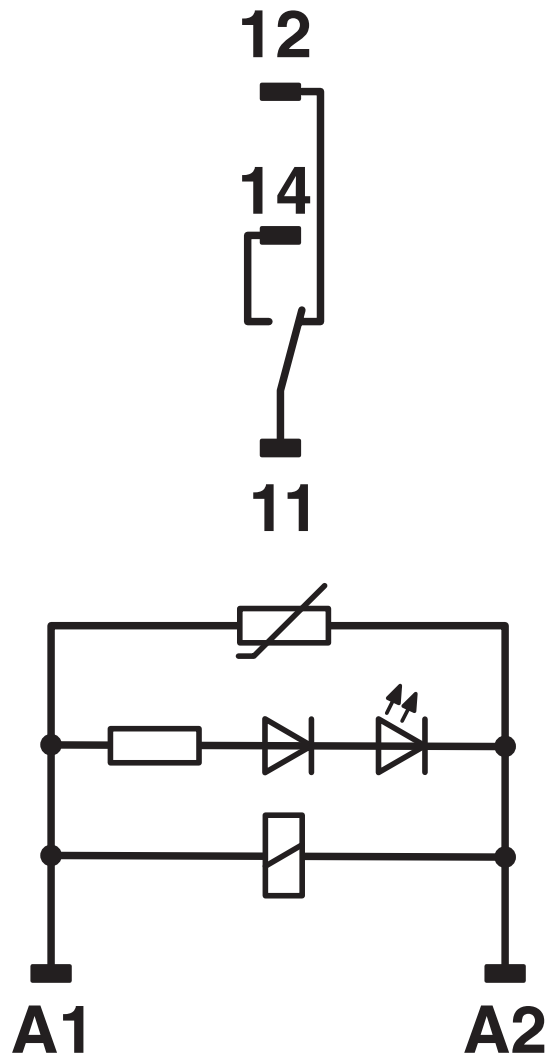
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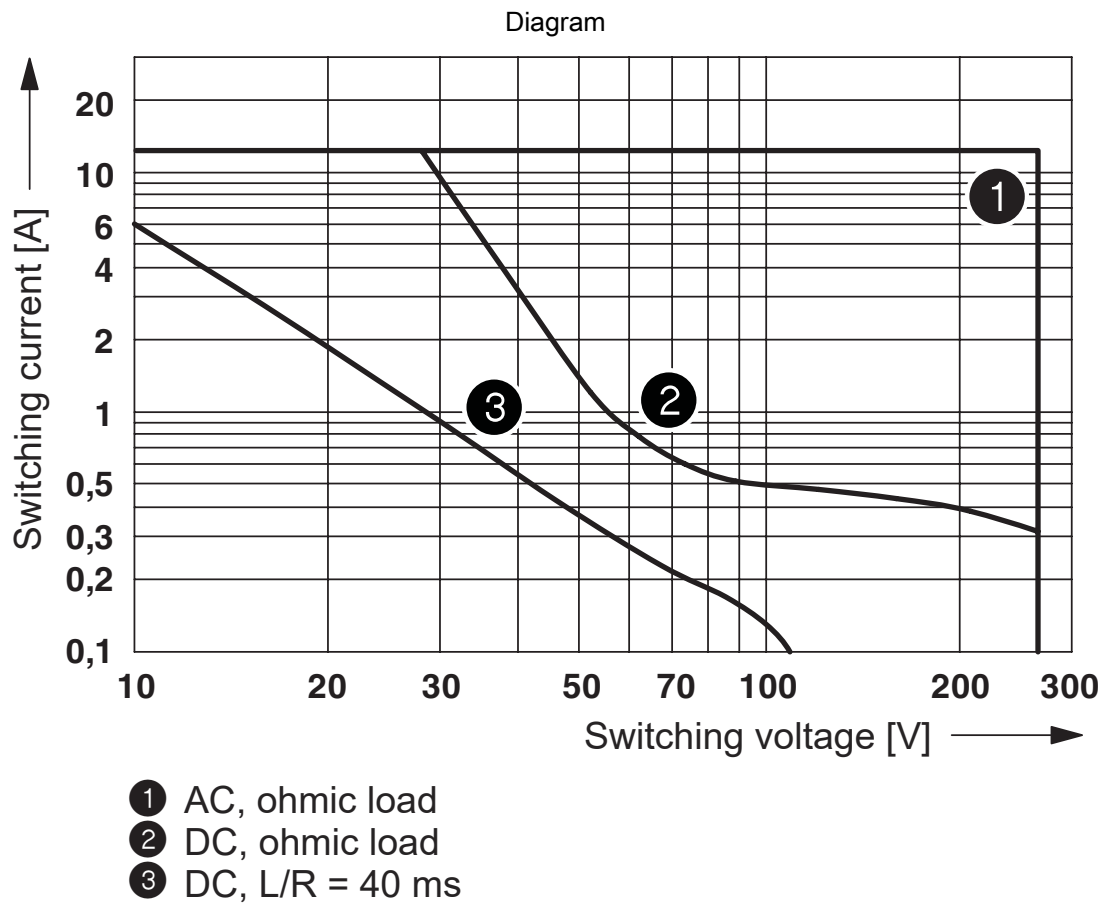
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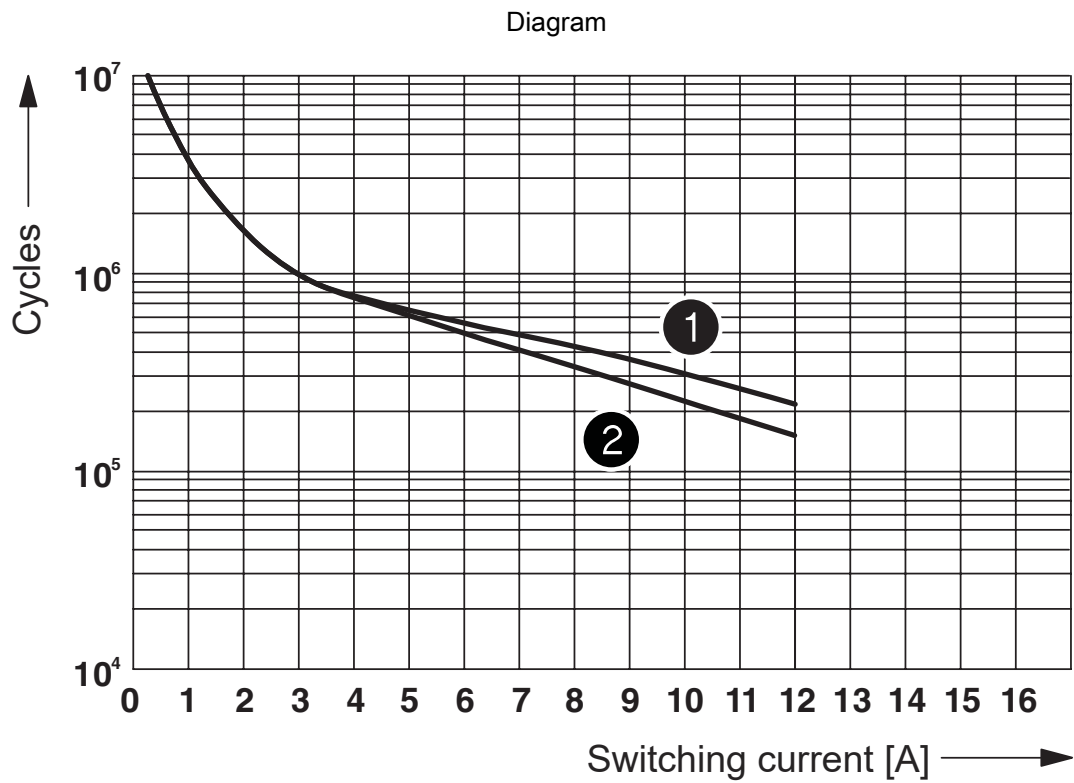


Circuit diagram





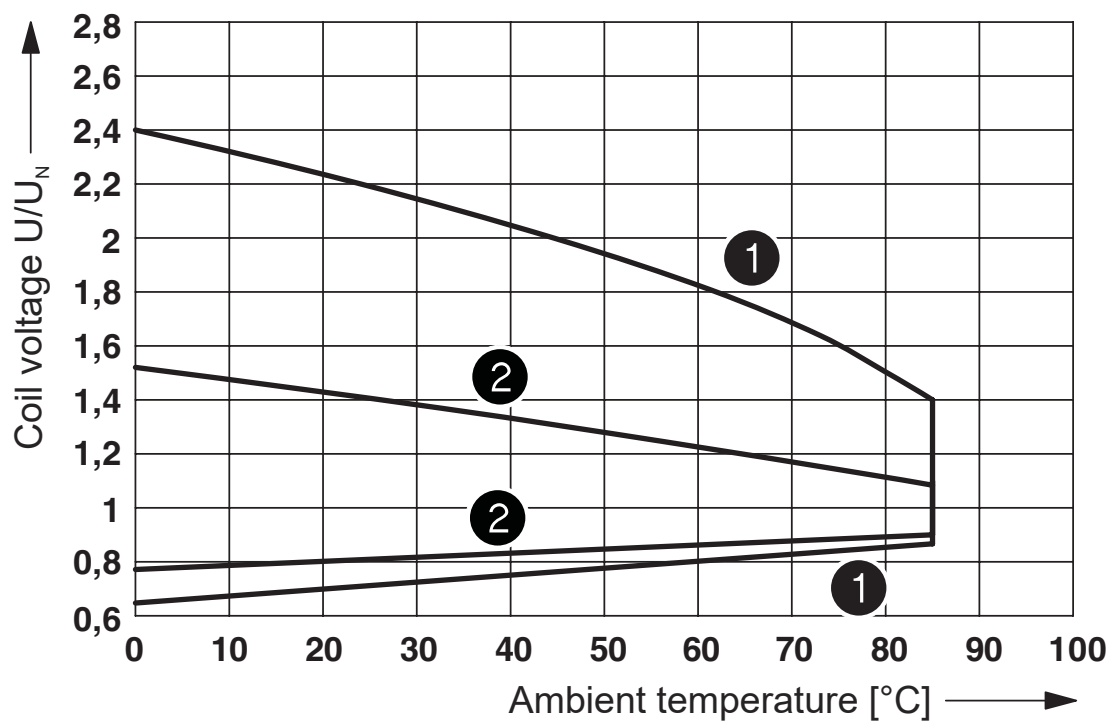
Interrupting rating



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

Electrical service life

Diagram



- ① DC coils
- ② AC coils

Operating voltage range of the relay

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Classifications

ECLASS

ECLASS-11.0	27371601
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UNSPSC

UNSPSC 21.0	39122334
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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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