

PR2-RSP3-LV-230AC/2X21 - Relay Module



2834711

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Pre-assembled relay modules with spring-cage connection, consisting of a relay base, industrial relay with integrated LED and engage/disengage manual actuate lever, varistor protective module, and retaining bracket. Input voltage: 230 V AC, 2 changeover contacts, 10 A

Your advantages

- With DC types, freewheeling diode is integrated in relay
- Relay with detectable manual operation and status LED
- Mechanical switch position indicator
- Logical contact arrangement thanks to 1/3-level relay base
- 4-changeover contact types with multi-layer gold contacts

Commercial data

Item number	2834711
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C463
Product key	CK632A
Catalog page	Page 395 (C-7-2013)
GTIN	4017918996284
Weight per piece (including packing)	141.14 g
Weight per piece (excluding packing)	125.66 g
Customs tariff number	85364900
Country of origin	DE

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Set consists of

PR2-BSP3/4X21 - Relay base

2833589

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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/L-230AC/2X21 - Single relay

2834070

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Plug-in industrial relays with power contacts, 2 changeover contacts, test button, status LED, mechanical switching position indicator, input voltage: 230 V AC

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V-120-230UC - Plug-in module

2833880

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Plug-in module, with varistor, input voltage: 120 ... 230 V AC/DC $\pm 20\%$

EL2-P35 - Retaining bracket

2833592

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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

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Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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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

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	1.15 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	230 V AC
Input voltage range	179.4 V AC ... 345 V AC
Drive and function	monostable
Typical input current at U _N	5 mA (at 50 Hz) 4 mA (At 60 Hz)
Typical response time	4 ms ... 10 ms
Typical release time range	3 ms ... 12 ms
Protective circuit	Varistor
Operating voltage display	LED red

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

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Maximum inrush current	20 A (15 ms)
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	240 W (at 24 V DC)
	160 W (at 48 V DC)
	110 W (at 60 V DC)
	72 W (at 110 V DC)
	130 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
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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)
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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 instructions	in rows with zero spacing

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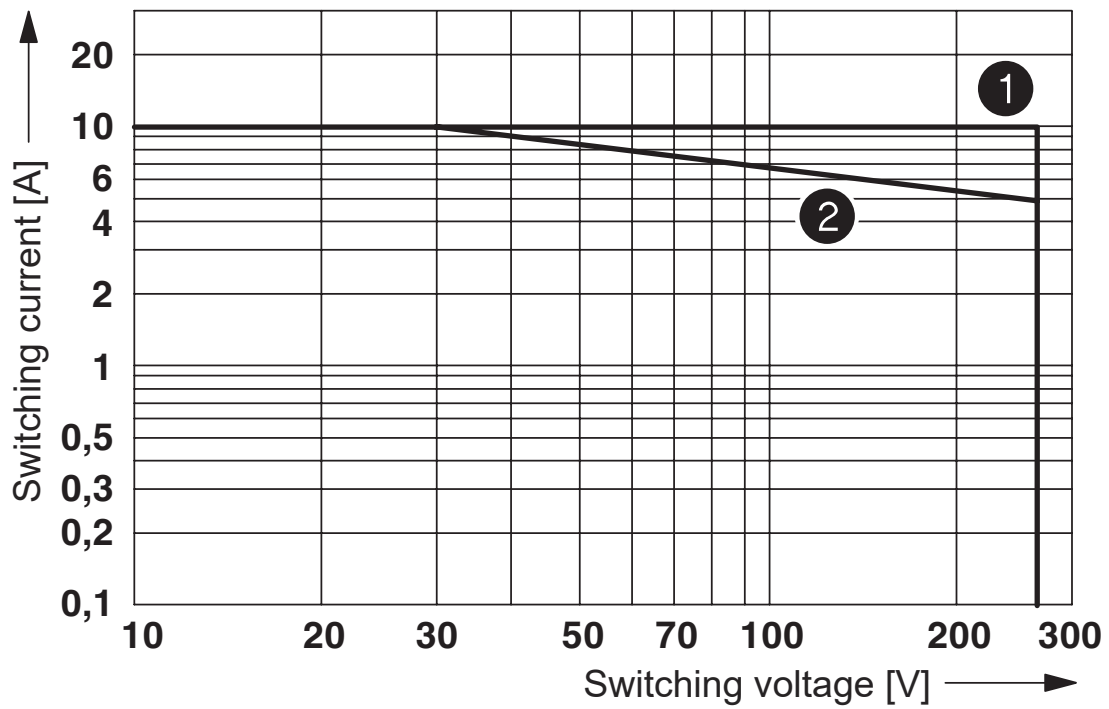
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Mounting position	any
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Drawings

Diagram



- ① Ohmic load
- ② $\cos \phi = 0.4$

AC interrupting rating

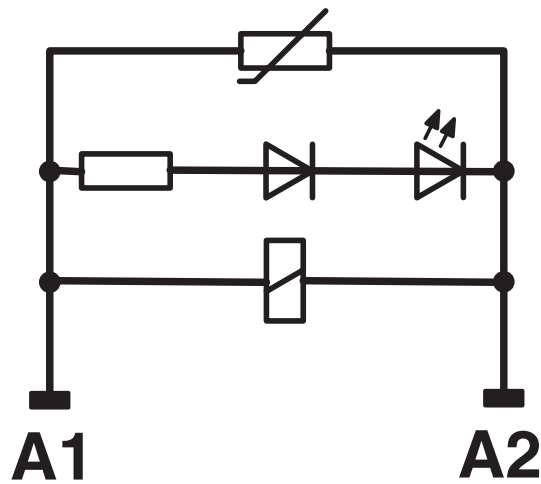
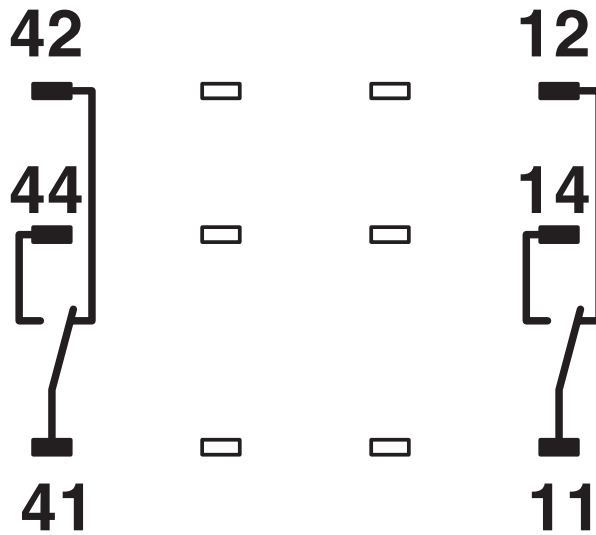
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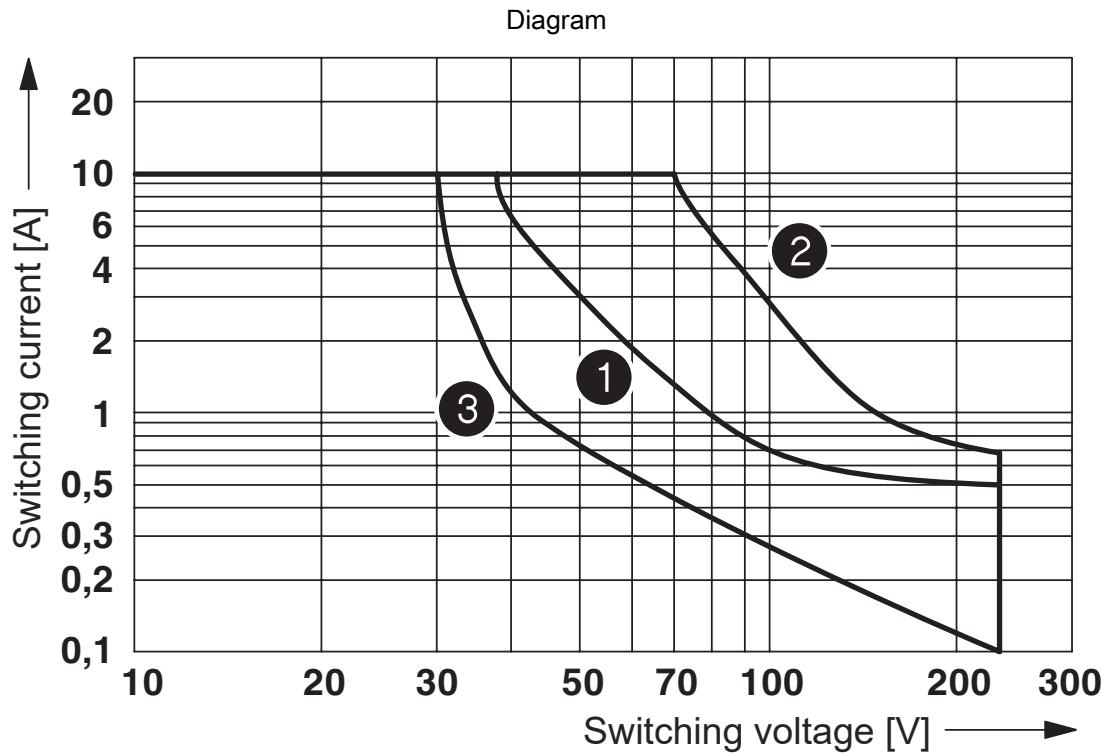
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Circuit diagram

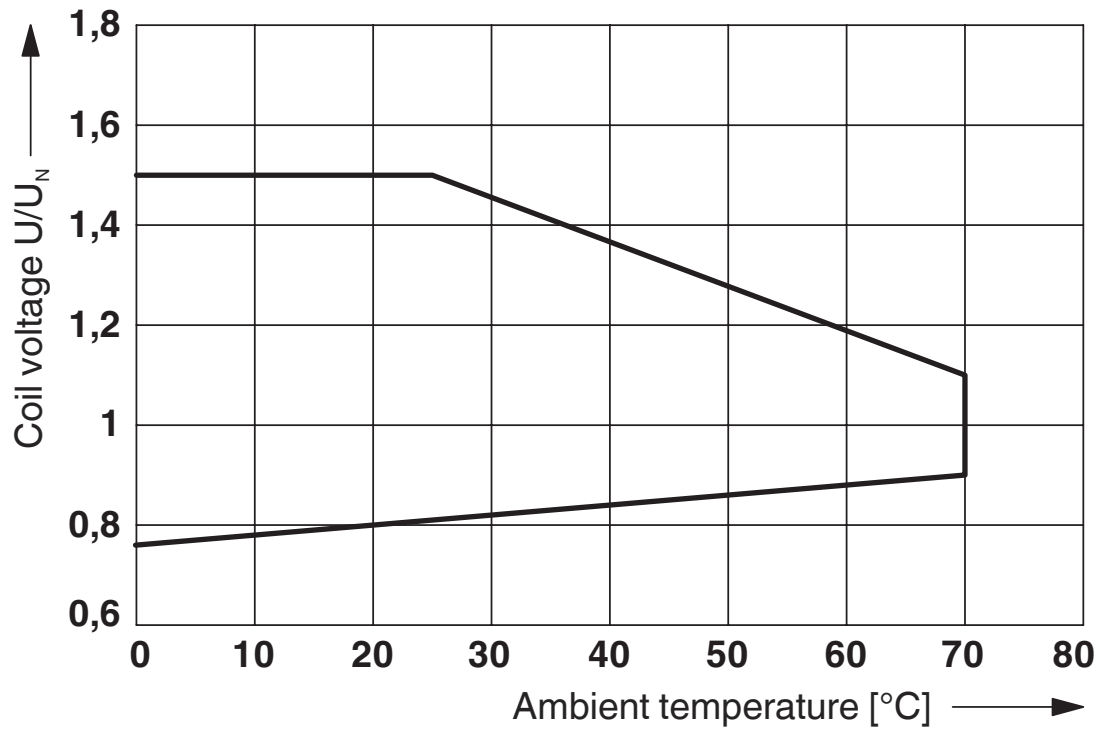




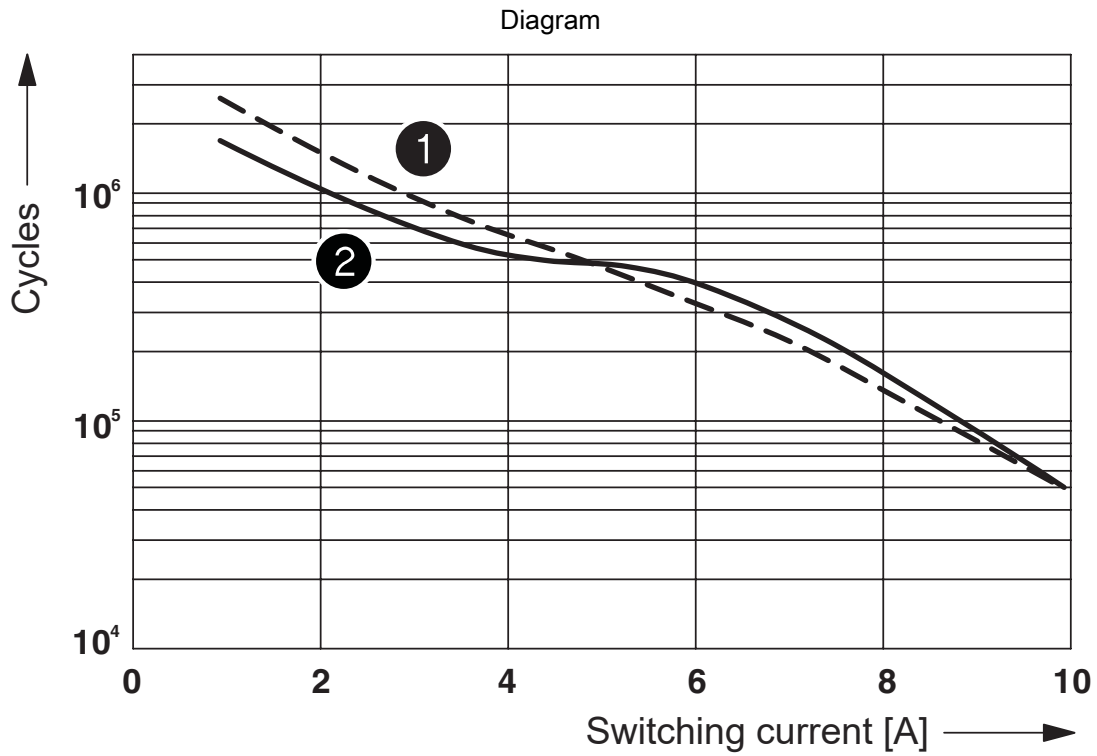
- ① Ohmic load
- ② ohmic load, contacts in series
- ③ $L/R < 7$ ms

DC interrupting rating

Diagram



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



- ① 250 V AC, ohmic load
- ② 30 V DC, ohmic load

Electrical service life

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Classifications

ECLASS

ECLASS-11.0	27371601
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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%
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com