

PR2-RSP3-LDP-24DC/4X21AU - Relay Module



2834766

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Pre-assembled relay modules with spring-cage connection, consisting of a relay base, industrial relay with integrated LED, freewheeling diode and engage/disengage manual actuate lever, and retaining bracket. Input voltage: 24 V DC, 4 changeover contacts with gold-plated contacts, 5 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	2834766
Packing unit	5 pc
Minimum order quantity	1 pc
Product key	CK632H
Catalog page	Page 395 (C-7-2013)
GTIN	4046356044585
Weight per piece (including packing)	144 g
Weight per piece (excluding packing)	124.06 g
Customs tariff number	85364900
Country of origin	JP

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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

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

Product properties

Product type	Relay Module
Application	Universal
Operating mode	100% operating factor
Mechanical service life	5x 10 ⁷ cycles

Data management status

Date of last data management	21.05.2024
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Insulation characteristics

Overvoltage category	II
Pollution degree	2

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.91 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	24 V DC
Input voltage range	18.7 V DC ... 36 V DC
Drive and function	monostable
Typical input current at U _N	38 mA
Typical response time	13 ms
Typical release time	5 ms
Protective circuit	Freewheeling diode
Operating voltage display	Green LED

Output data

Switching

Contact switching type	4 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi, hard gold-plated
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	1 V
Limiting continuous current	5 A
Maximum inrush current	12 A (15 ms)
Min. switching current	1 mA
	120 W (at 24 V DC)

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Interrupting rating (ohmic load) max.	110 W (at 48 V DC)
	78 W (at 60 V DC)
	55 W (at 110 V DC)
	77 W (at 220 V DC)
	1250 VA (for 250 V AC)

Connection data

Coil side

Connection method	Spring-cage connection
Stripping length	10 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	10 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

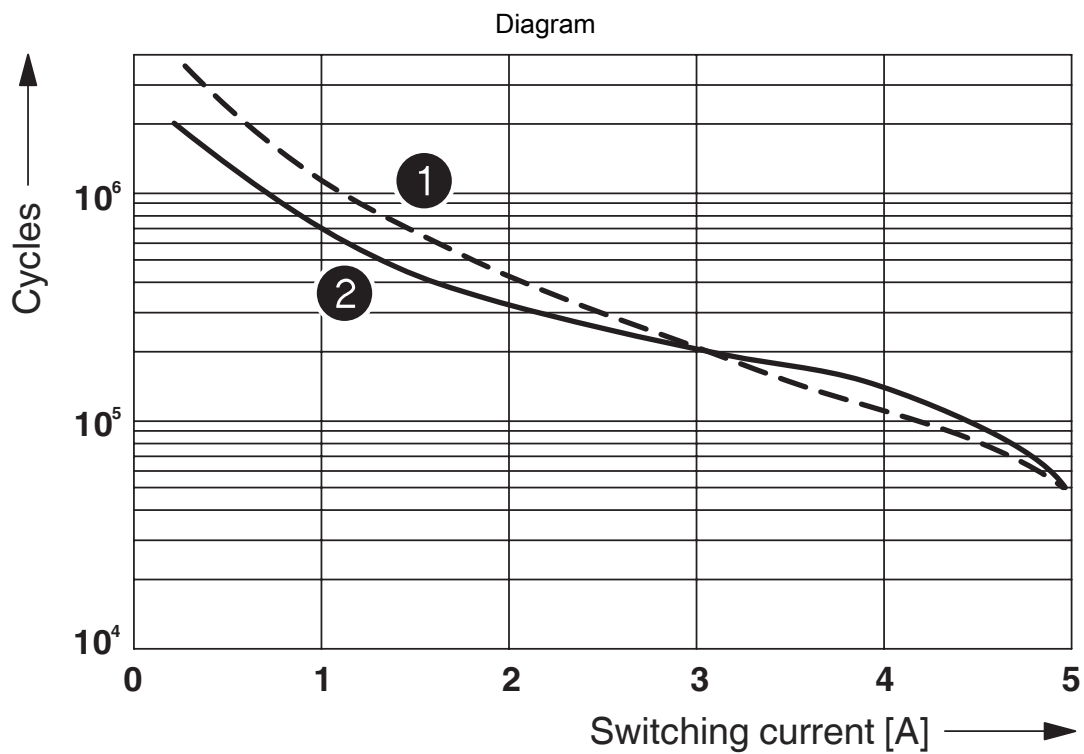
Standards and regulations

Standards/regulations	IEC 60664
	EN 50178

Mounting

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

Drawings

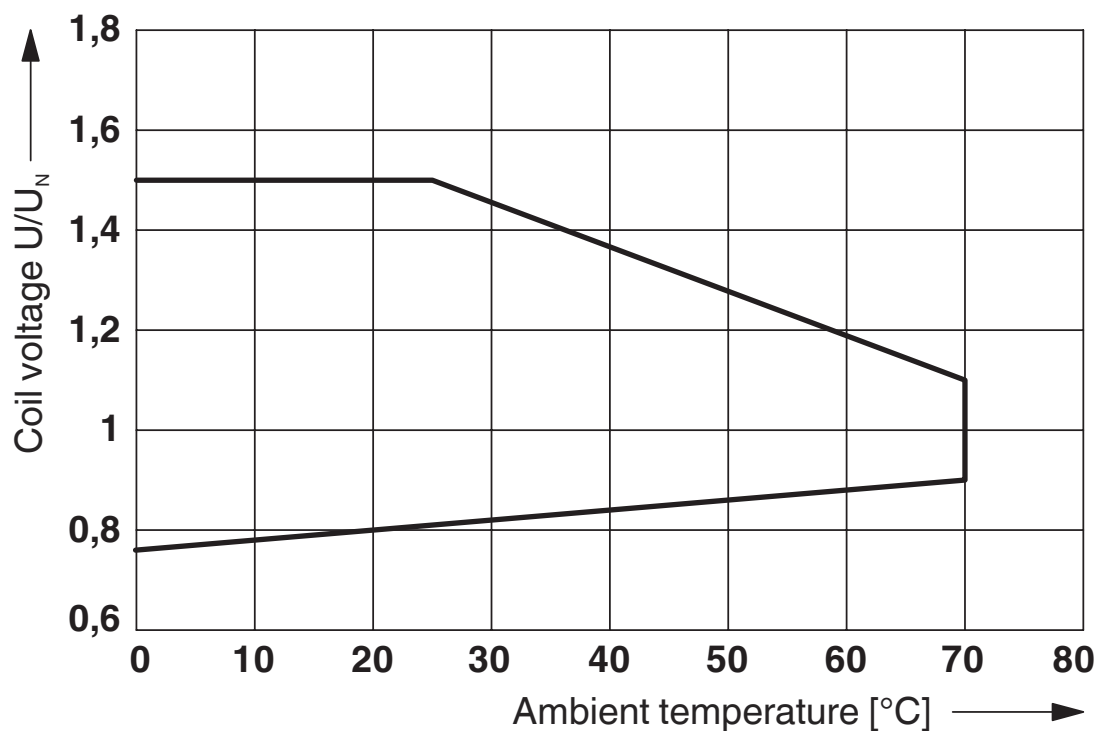


① 250 V AC, ohmic load

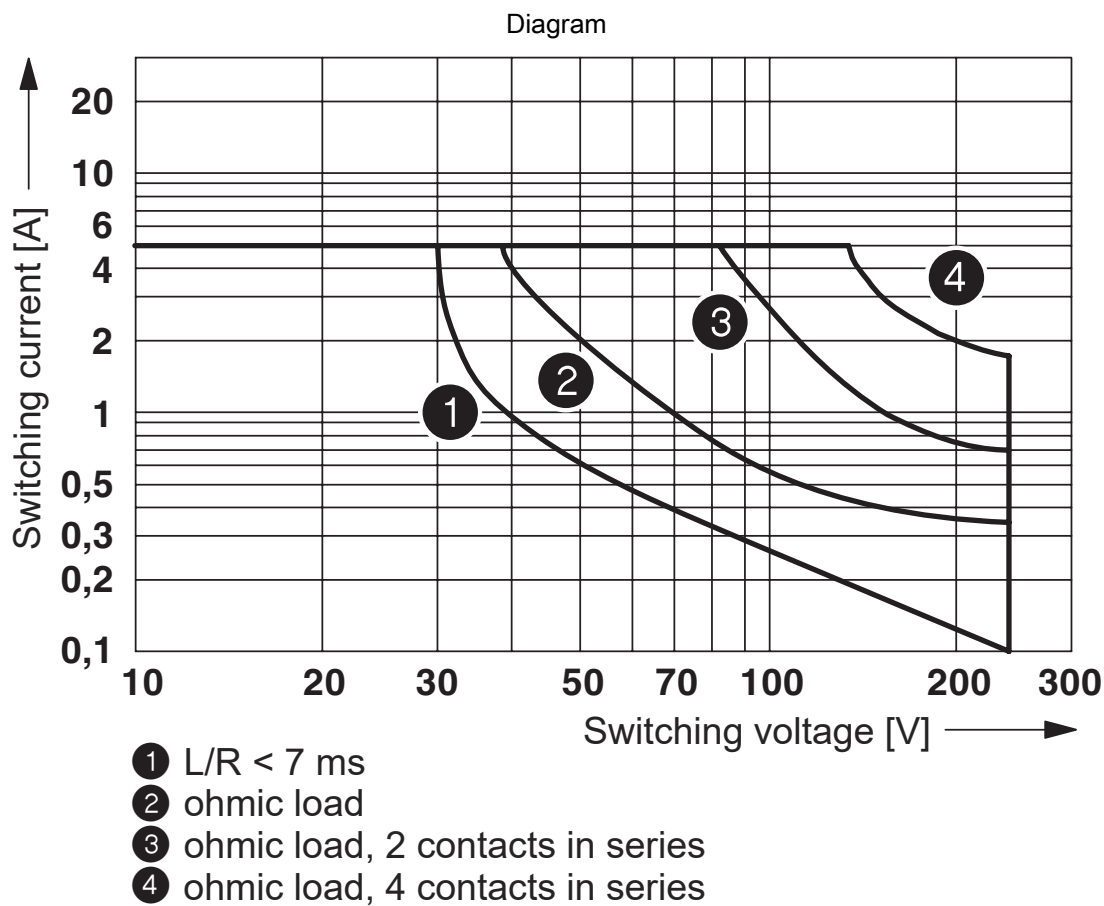
② 30 V DC, ohmic load

Electrical service life

Diagram



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

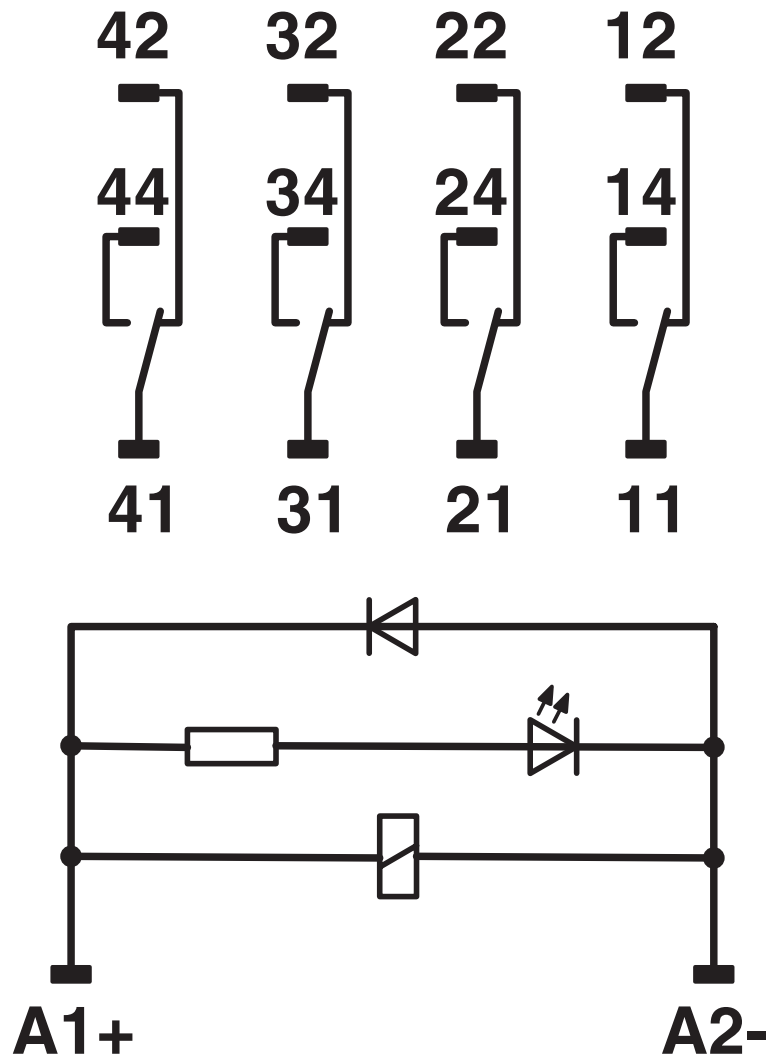


DC interrupting rating

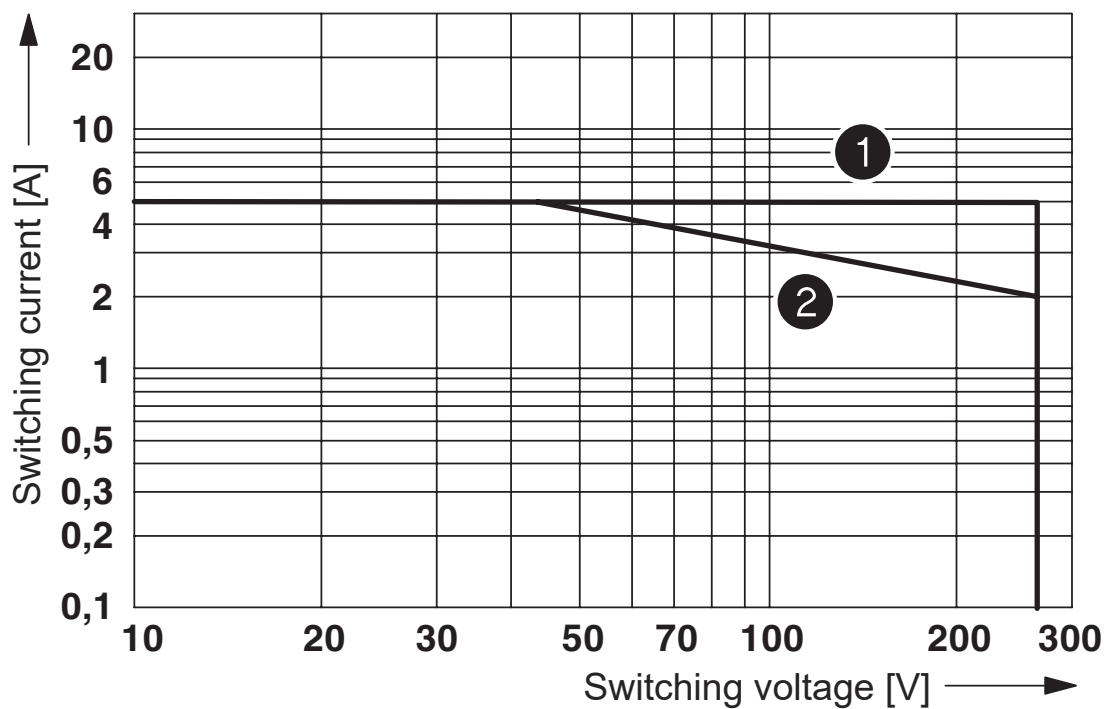
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Circuit diagram



Diagram



- ① Ohmic load
- ② $\cos \varphi = 0.4$

AC interrupting rating

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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	
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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