

# Relay Module - PR2-RSC3-LDP-24DC/4X21AU - 2834724

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Preassembled relay modules with screw connection, consisting of: Relay socket, industrial relay with integrated LED, free-wheeling diode and engage/disengage manual actuate lever, and retaining bracket. Input voltage: 24 V DC, four PDTs with gold-plated contacts, 5 A

The figure shows the 24 V DC version

## Product Features

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

## Key commercial data

<b>package_quantity</b>	5
<b>GTIN</b>	4046356044554

## Technical data

### Note

<b>Utilization restriction</b>	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

<b>Width</b>	27 mm
<b>Height</b>	78.5 mm
<b>Depth</b>	86 mm

### Ambient conditions

<b>Ambient temperature (operation)</b>	-25 °C ... 60 °C
<b>Ambient temperature (storage/transport)</b>	-25 °C ... 70 °C

### Coil side

<b>Nominal input voltage <math>U_N</math></b>	24 V DC
<b>Typical input current at <math>U_N</math></b>	38 mA
<b>Typical response time</b>	13 ms
<b>Typical release time</b>	5 ms
<b>Operating voltage display</b>	Green LED
<b>Protective circuit</b>	Damping diode

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## Technical data

### Contact side

<b>Contact type</b>	4 PDTs
<b>Contact material</b>	AgNi, hard gold-plated
<b>Maximum switching voltage</b>	250 V AC/DC
<b>Minimum switching voltage</b>	1 V
<b>Maximum inrush current</b>	12 A (15 ms)
<b>Min. switching current</b>	1 mA
<b>Limiting continuous current</b>	5 A
<b>Interrupting rating (ohmic load) max.</b>	120 W (at 24 V DC)
<b>Interrupting rating (ohmic load) max.</b>	110 W (at 48 V DC)
<b>Interrupting rating (ohmic load) max.</b>	78 W (at 60 V DC)
<b>Interrupting rating (ohmic load) max.</b>	55 W (at 110 V DC)
<b>Interrupting rating (ohmic load) max.</b>	77 W (at 220 V DC)
<b>Interrupting rating (ohmic load) max.</b>	1250 VA (for 250 V AC)

### General

<b>Test voltage relay winding/relay contact</b>	2 kV (50 Hz, 1 min.)
<b>Test voltage relay contact/relay contact</b>	2 kV (50 Hz, 1 min.)
<b>Operating mode</b>	100% operating factor
<b>Mechanical service life</b>	5 x 10 <sup>7</sup> cycles
<b>Standards/regulations</b>	IEC 60664
<b>Standards/regulations</b>	EN 50178
<b>Standards/regulations</b>	IEC 62103
<b>Pollution degree</b>	2
<b>Surge voltage category</b>	II
<b>Mounting position</b>	any
<b>Assembly instructions</b>	In rows with zero spacing

### Connection data

<b>Connection method</b>	Screw connection
<b>Stripping length</b>	7 mm
<b>Conductor cross section stranded min.</b>	0.14 mm <sup>2</sup>
<b>Conductor cross section stranded max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section solid min.</b>	0.14 mm <sup>2</sup>
<b>Conductor cross section solid max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section AWG/kcmil max</b>	14
<b>Conductor cross section AWG/kcmil min.</b>	26

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27371102
<b>eCl@ss 4.1</b>	27371102

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## classifications

### eCl@ss

eCl@ss 5.0	27371603
eCl@ss 5.1	27371603
eCl@ss 6.0	27371603
eCl@ss 7.0	27371603
eCl@ss 8.0	27371603

### ETIM

ETIM 2.0	EC001456
ETIM 3.0	EC001456
ETIM 4.0	EC001456
ETIM 5.0	EC001456

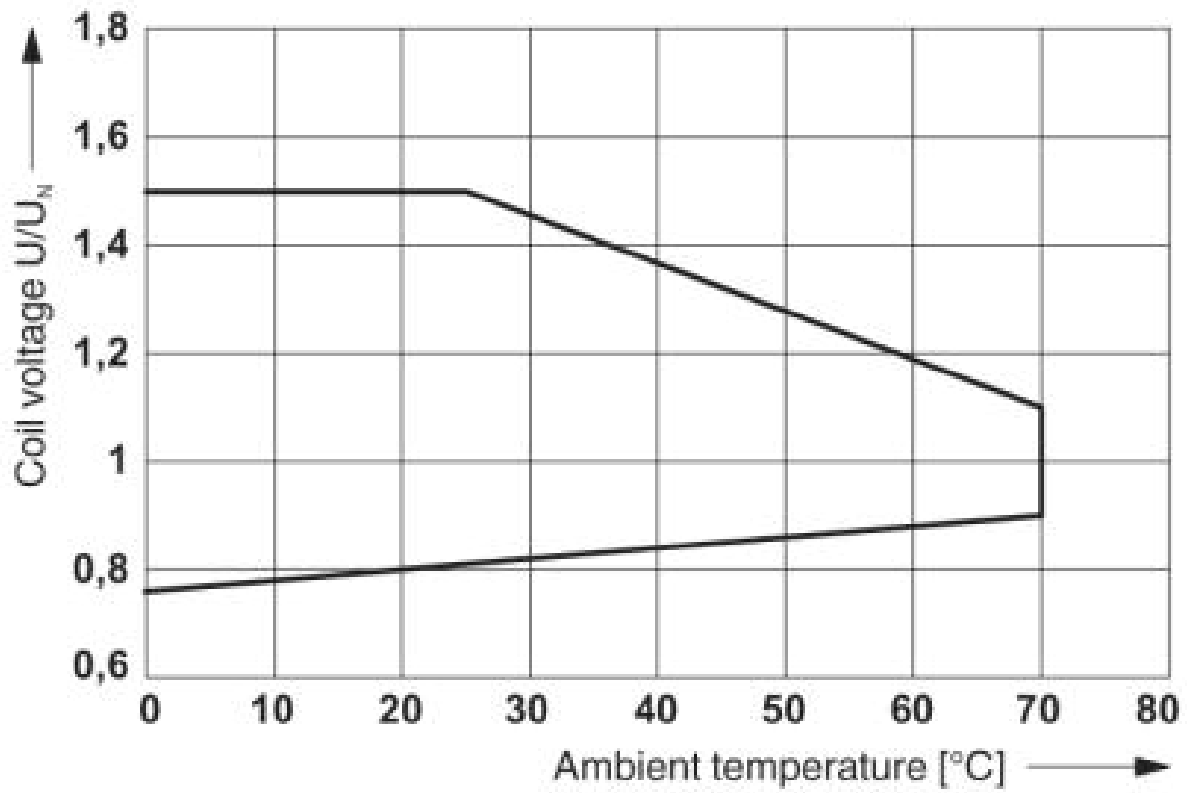
### UNSPSC

UNSPSC 6.01	30211917
UNSPSC 7.0901	39121516
UNSPSC 11	39121516
UNSPSC 12.01	39121516
UNSPSC 13.2	39121516

## Drawings

# Relay Module - PR2-RSC3-LDP-24DC/4X21AU - 2834724

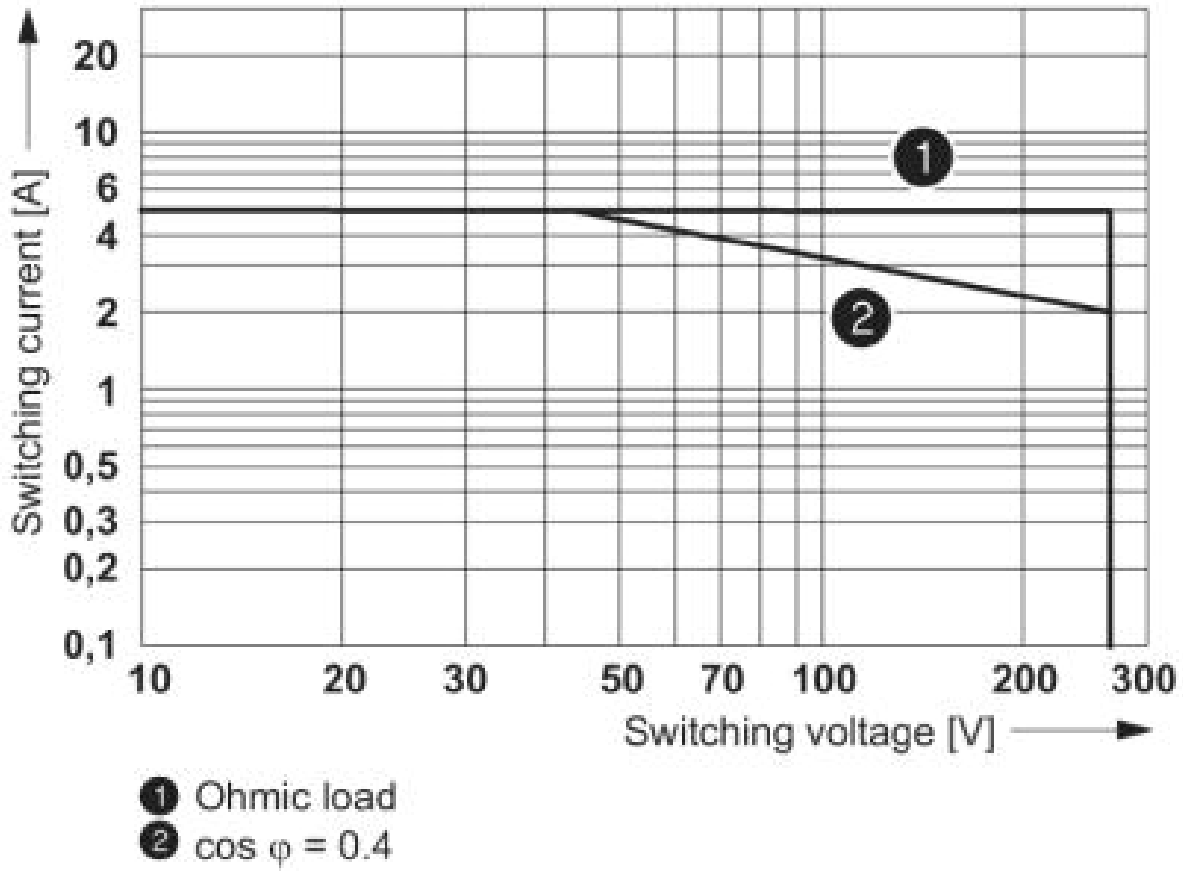
Diagram



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

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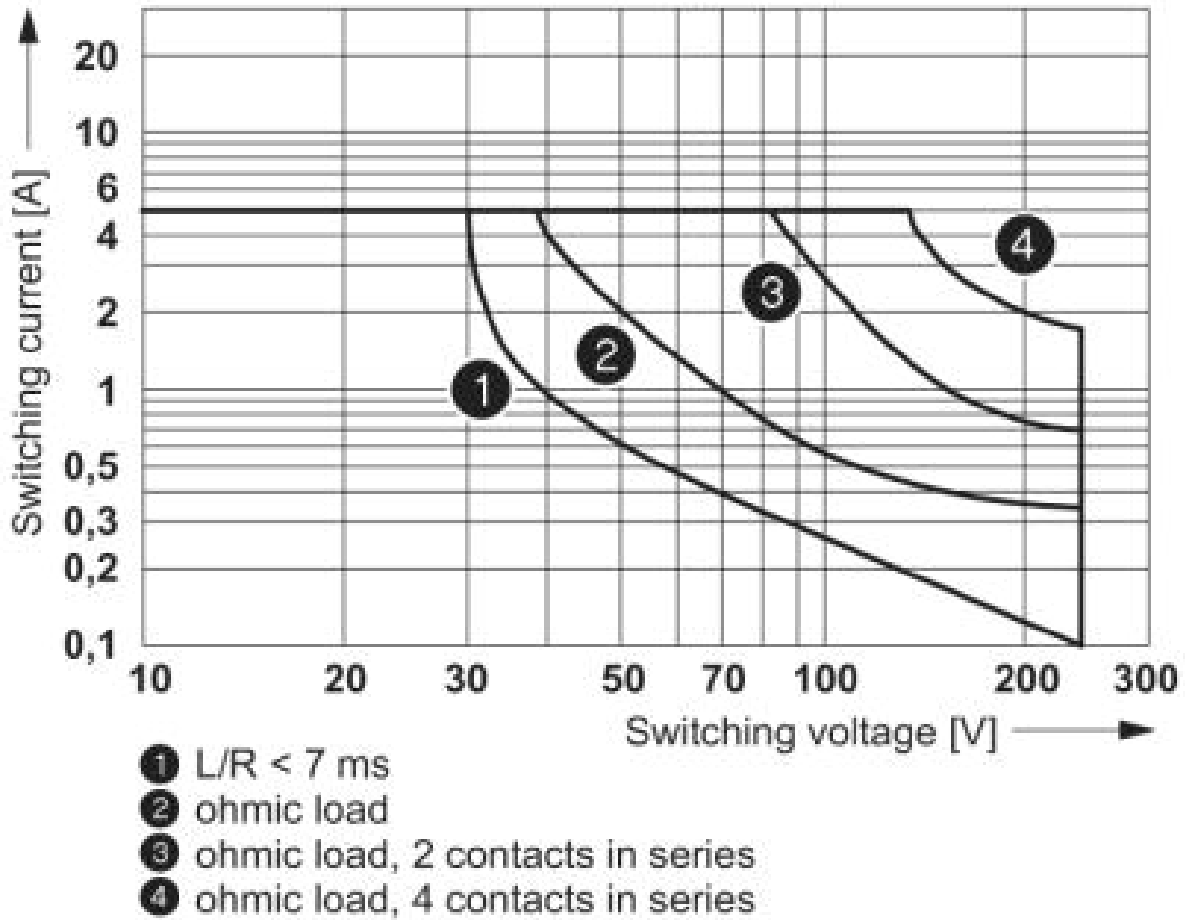
Diagram



AC interrupting rating

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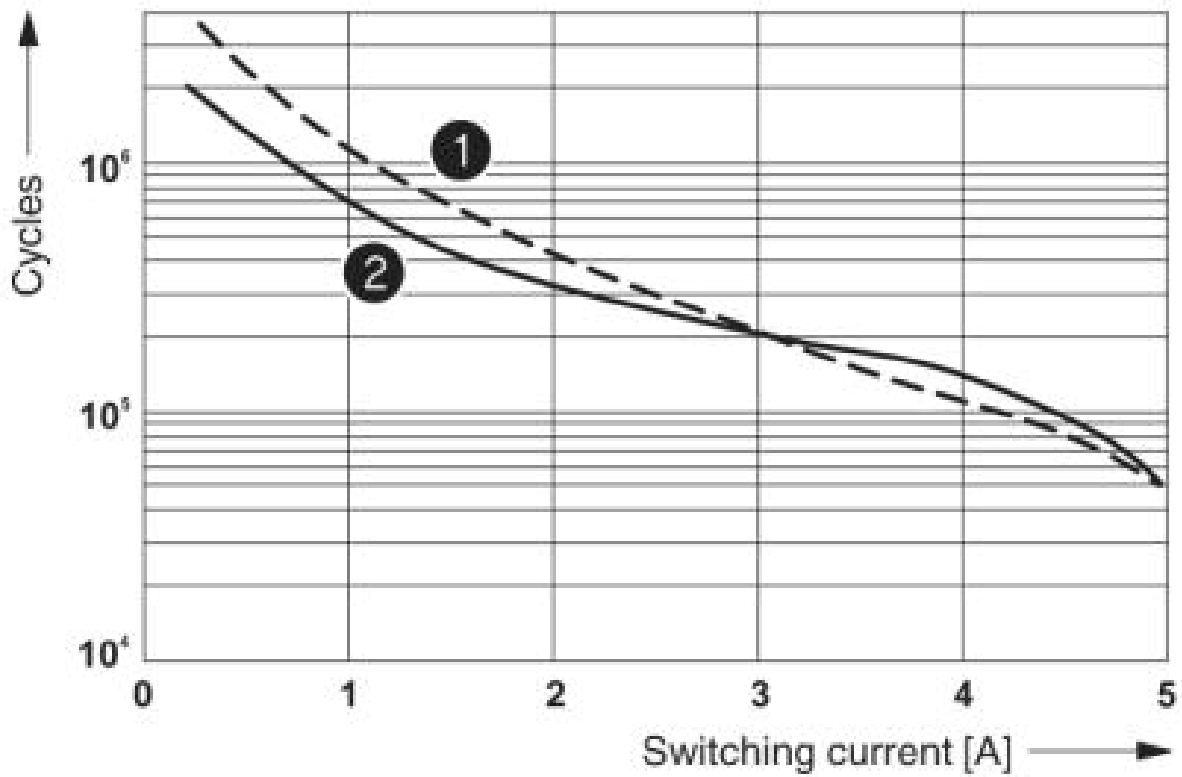
Diagram



DC interrupting rating

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Diagram



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

Electrical service life

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Circuit diagram

