

## Relay Module - PR2-RSP3-LDP-24DC/2X21 - 2834685

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Fully mounted relay modules with spring-cage connection, consisting of: relay base, plug-in industrial relay with integrated LED, free-wheeling diode and engage/disengage manual actuate lever, and relay retaining bracket. Input voltage: 24 V DC, 2 PDT, 10 A

### Your advantages

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



### Key Commercial Data

Packing unit	5 pc
GTIN	 4 046356 044547
GTIN	4046356044547

### Technical data

#### Note

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

Width	31 mm
Height	95 mm
Depth	84 mm

#### Ambient conditions

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

#### Coil side

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## Technical data

### Coil side

Nominal input voltage $U_N$	24 V DC
Typical input current at $U_N$	38 mA
Typical response time	13 ms
Typical release time	5 ms
Protective circuit	Damping diode
Operating voltage display	Green LED
Power dissipation for nominal condition	0.91 W

### Contact side

Contact type	2 PDT
Type of switch contact	Single contact
Contact material	Ag
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V
Min. switching current	1 mA
Maximum inrush current	20 A (15 ms)
Limiting continuous current	10 A
Interrupting rating (ohmic load) max.	240 W (at 24 V DC)
	144 W (at 48 V DC)
	108 W (at 60 V DC)
	72 W (at 110 V DC)
	110 W (at 220 V DC)
	2500 VA (for 250 V AC)

### General

Test voltage relay winding/relay contact	2 kV (50 Hz, 1 min.)
Test voltage relay contact/relay contact	2 kV (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	$5 \times 10^7$ cycles
Mounting position	any
Assembly instructions	In rows with zero spacing

### Connection data input side

Connection name	Coil side
Connection method	Spring-cage connection
Stripping length	12 mm
Conductor cross section solid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG	24 ... 16

### Standards and Regulations

Standards/regulations	IEC 60664
	EN 50178

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## Technical data

### Standards and Regulations

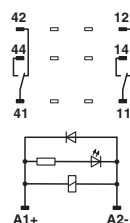
Degree of pollution	3
Overvoltage category	II

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

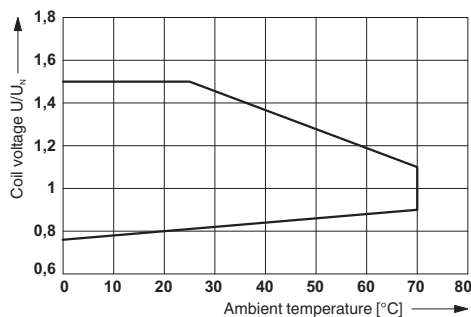
## Drawings

Circuit diagram



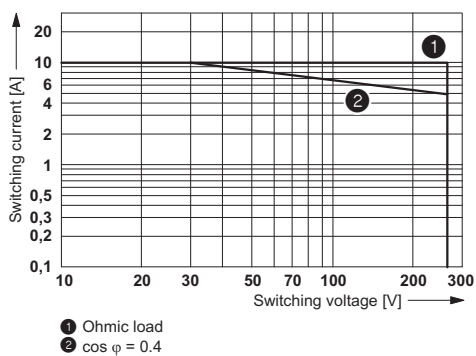
DC coils

Diagram



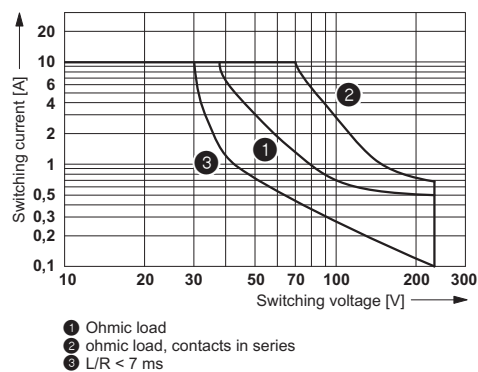
Operating voltage range of relay  $T_u = T_{coil}$

Diagram



AC interrupting rating

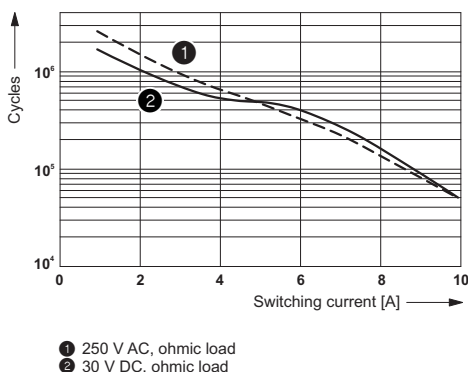
Diagram



DC interrupting rating

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Diagram



Electrical service life

## Articles in set

Relay base - PR2-BSP3/4X21 - 2833589



Relay base PR2-B, for industrial relay REL-IR with 2 or 4 PDT, 1/3-level version, spring-cage connections, connection facility for input/interference suppression modules, for mounting on NS 35/7.5

Single relay - REL-IR/LDP- 24DC/2X21 - 2834025



Pluggable industrial relays with power contacts, 2 PDT, test button, status LED, free-wheeling diode, mechanical switch position indicator, polarity A1+, A2-, input voltage 24 V DC

Retaining bracket - EL2-P35 - 2833592



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

## Approvals

Approvals

Approvals

EAC

## Relay Module - PR2-RSP3-LDP-24DC/2X21 - 2834685

### Approvals

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Ex Approvals

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### Approval details

EAC



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DE.A\*30.B.01082

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