

## Relay Module - PR2-RSC3-LV- 24AC/2X21 - 2834656

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Preassembled relay modules with screw connection, consisting of: relay base, industrial relay with integrated LED and engage/disengage manual actuate lever, varistor protective module, and retaining bracket. Input voltage: 24 V AC, two PDTs, 10 A


The figure shows the 24 V DC version

### Why buy this product

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



### Key Commercial Data

Packing unit	5 STK
GTIN	 4 017918 996239
GTIN	4017918996239

### Technical data

#### Note

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

Width	27 mm
Height	78.5 mm
Depth	86 mm

#### Ambient conditions

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

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## Technical data

### Coil side

Nominal input voltage $U_N$	24 V AC
Typical input current at $U_N$	54 mA (at 50 Hz)
	46 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
Power dissipation for nominal condition	1.3 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)
	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)

### 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
Degree of protection	RT I (Relay)
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	Screw connection
Stripping length	7 mm
Screw thread	M3
Conductor cross section solid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	26 ... 14

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## Technical data

### Connection data output side

Connection name	Contact side
Connection method	Screw connection
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Conductor cross section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	26 ... 14

### Standards and Regulations

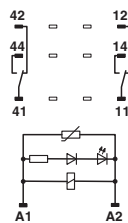
Standards/regulations	IEC 60664
	EN 50178
Degree of pollution	3
Overvoltage category	II

### Environmental Product Compliance

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

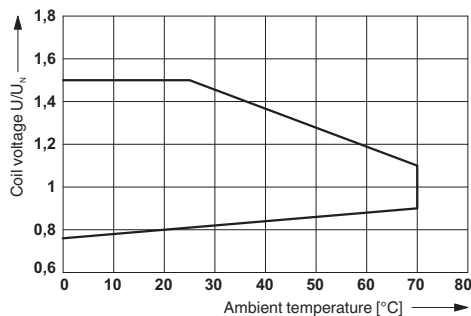
## Drawings

Circuit diagram



AC coils

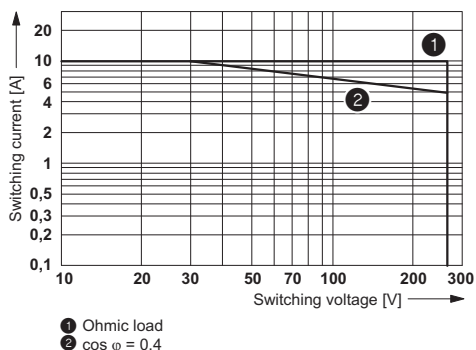
Diagram



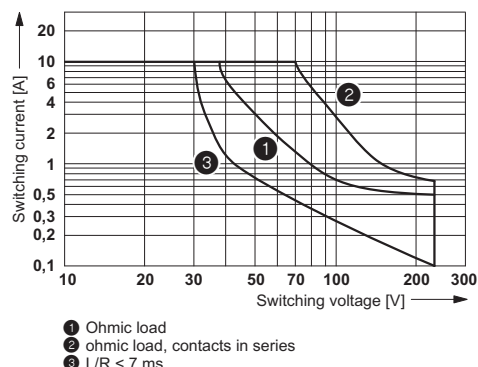
Operating voltage range of relay  $T_u = T_{coil}$

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Diagram



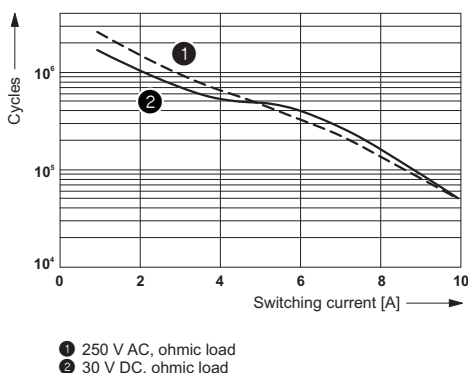
Diagram



AC interrupting rating

DC interrupting rating

Diagram



Electrical service life

## Articles in set

Relay base - PR2-BSC3/4X21 - 2833576



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

Single relay - REL-IR/L- 24AC/2X21 - 2834054



Plug-in industrial relay with power contacts, 2 PDTs, test button, status LED, mechanical switch setting display, input voltage: 24 V AC

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## Articles in set

Plug-in module - V- 12- 24UC - 2833864



Plug-in module, for mounting on PR1 and PR2, with varistor, input voltage : 12 ... 24 V AC/DC  $\pm 20\%$

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

Marker labels - MP 2 - 2833644



Equipment marker, labeling surface 9 x 25 mm

## Approvals

Approvals

Approvals

EAC

Ex Approvals

## Approval details

EAC



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