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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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## 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	
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

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

## 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	5x 10 <sup>7</sup> 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

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

## Technical data

### Connection data output side

Connection name	Contact side
Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Conductor cross section solid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
Conductor cross section AWG	26 ... 14

### Standards and Regulations

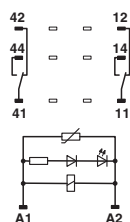
Standards/regulations	IEC 60664
	EN 50178
Degree of pollution	3
Overvoltage category	II

### Environmental Product Compliance

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

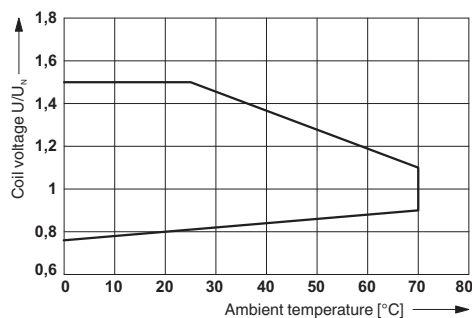
## Drawings

Circuit diagram



AC coils

Diagram

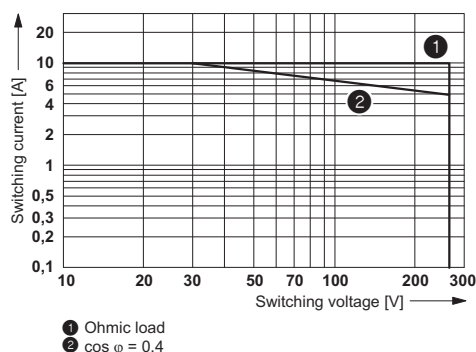


Operating voltage range of relay  $T_u = T_{coil}$



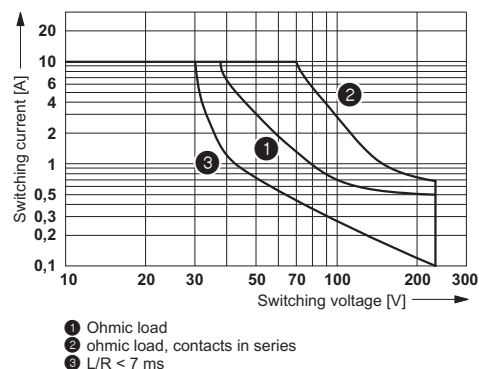
## Relay Module - PR2-RSC3-LV- 24AC/2X21 - 2834656

Diagram



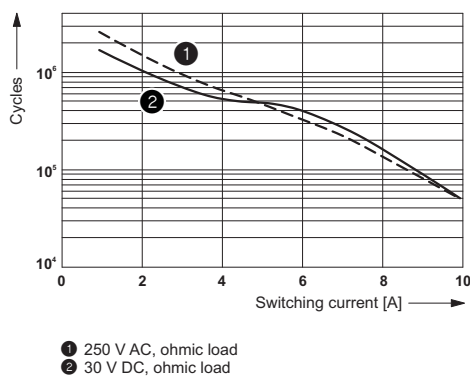
AC interrupting rating

Diagram



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

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

### 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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