

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Preassembled relay modules with screw connection, consisting of: relay base, 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

## Why buy this product

- 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

Packing unit	5 STK
GTIN	 4 046356 044554
GTIN	4046356044554

## Technical data

### Note

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

### 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-LDP-24DC/4X21AU - 2834724

## Technical data

### Coil side

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	see diagram
Typical input current at $U_N$	38 mA
Typical response time	13 ms
Typical release time	14 ms
Protective circuit	Damping diode
Operating voltage display	Green LED
Power dissipation for nominal condition	0.91 W

### Contact side

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

### 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
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

### Connection data output side

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

## Technical data

### Connection data output side

Connection name	Contact side
Connection method	Screw connection
Stripping length	7 mm
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

### Standards and Regulations

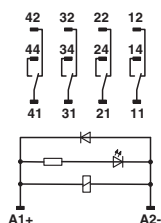
Standards/regulations	IEC 60664
	EN 50178
Degree of pollution	2
Overvoltage category	II

### Environmental Product Compliance

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

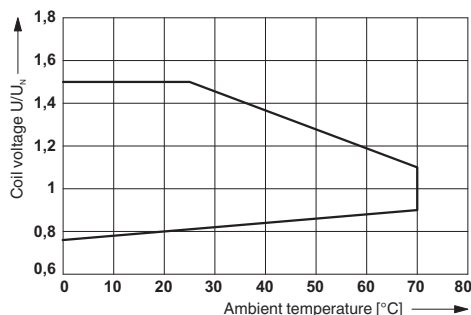
## Drawings

Circuit diagram



DC coils

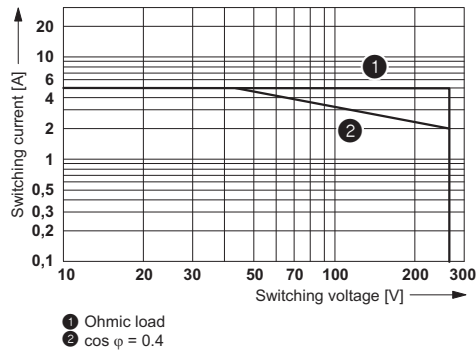
Diagram



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

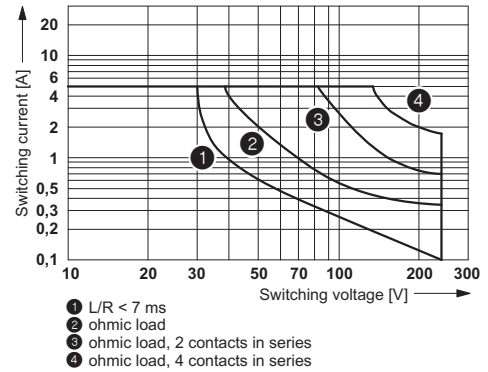
# Relay Module - PR2-RSC3-LDP-24DC/4X21AU - 2834724

Diagram



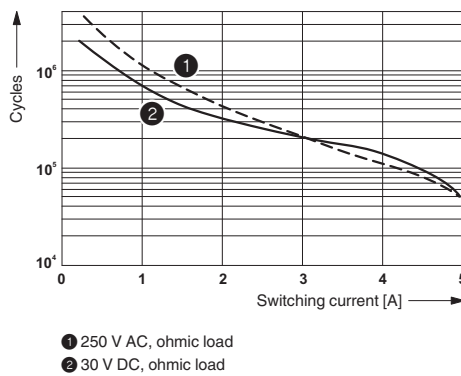
AC interrupting rating

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/LDP- 24DC/4X21AU - 2834096



Pluggable industrial relays with power contacts and additional hard gold plating, 4 PDT, test button, status LED, free-wheeling diode, mechanical switch position indicator, polarity A1+, A2-, coil voltage: 24 V DC

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

## Articles in set

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		RU C- DE.A*30.B.01082
-----	--	--------------------------

Phoenix Contact 2018 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>