

Relay Module - PR2-RSP3-LDP-24DC/4X21AU - 2834766

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Preassembled relay modules with spring-cage connection, consisting of a 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
- Logical contact arrangement thanks to 1/3-level relay base
- 4 PDT types with multi-layer gold contacts



Key Commercial Data

Packing unit	5 pc
Minimum order quantity	5 pc
GTIN	 4 046356 044585
Weight per Piece (excluding packing)	124.06 g
Custom tariff number	85364900
Country of origin	Germany

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

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Ambient conditions

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

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	4 PDTs
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.	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)
	1250 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	5×10^7 cycles
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Degree of pollution	2
Overvoltage category	II
Mounting position	any
Assembly instructions	In rows with zero spacing

Connection data input side

Connection name	Coil side
Connection method	Spring-cage connection

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Connection data input side

Stripping length	10 mm
Conductor cross section solid	0.2 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross section AWG	24 ... 16

Standards and Regulations

Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Degree of pollution	2
Overvoltage category	II

Articles in set

Relay socket - PR2-BSP3/4X21 - 2833589



Relay socket 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/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 retaining bracket - EL2-P35 - 2833592



Relay retaining bracket, with eject function and integrated equipment marking area (8 x 25 mm), to suit relay socket PR2, for 35 mm high industrial relay

Classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	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	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 2.0	EC001456
ETIM 3.0	EC001456
ETIM 4.0	EC001456
ETIM 5.0	EC001437

UNSPSC

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

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approvals submitted

Approval details

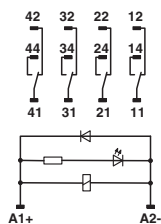
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EAC

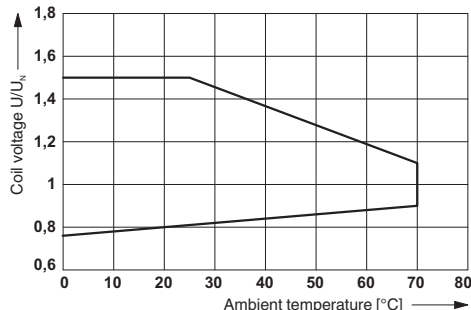
Drawings

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Circuit diagram

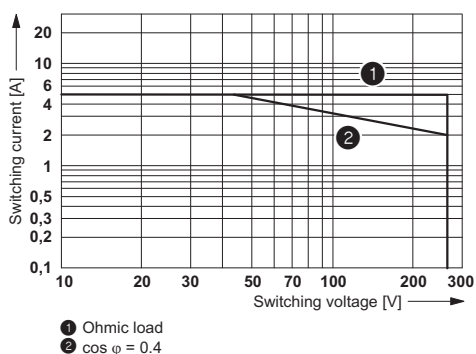


Diagram



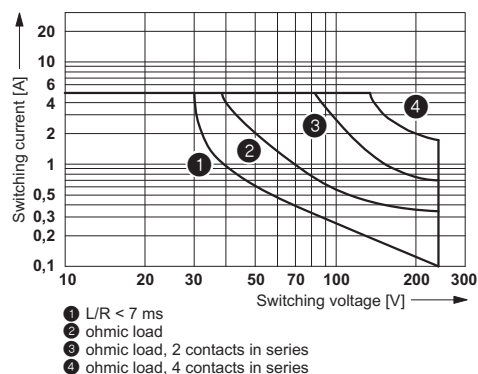
Operating voltage range of relay $T_u=T_{coil}$

Diagram



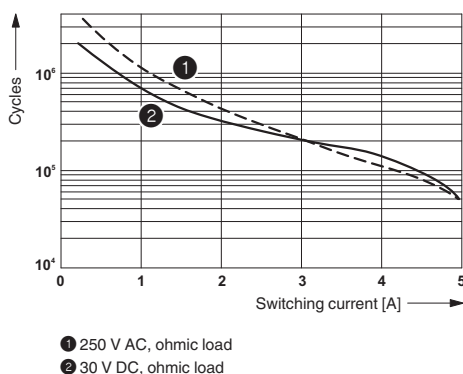
AC interrupting rating

Diagram



DC interrupting rating

Diagram



Electrical service life