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Relay Module - PR2-RSC3-LV-230AC/4X21AU - 2834753

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Preassembled relay modules with screw connection, consisting of: Relay socket, industrial relay with integrated LED and engage/disengage manual actuate lever, varistor module, and retaining bracket. Input voltage: 230 V AC, four PDTs with gold-plated contacts, 5 A

The figure shows the 24 V DC version

Product Features

☑ With DC types, freewheeling diode is integrated in relay

☑ Relay with detectable manual operation and status LED

☑ Logical contact arrangement thanks to 1/3-level relay base

☑ Mechanical switch position indicator

☑ 4 PDT types with multi-layer gold contacts

Key commercial data

Packing unit	1 pc
Minimum order quantity	5 pc
Weight per Piece (excluding packing)	117.13 GRM
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

Dimensions

Width	27 mm
Height	78.5 mm
Depth	86 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	230 V AC
Typical input current at U_N	5 mA (at 50 Hz)
	4 mA (At 60 Hz)
Typical response time	4 ms ... 10 ms
Typical release time range	3 ms ... 12 ms
Operating voltage display	LED red
Protective circuit	Varistor

Contact side

Contact type	4 PDTs
Contact material	AgNi, hard gold-plated
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	1 V
Maximum inrush current	12 A (15 ms)
Min. switching current	1 mA
Limiting continuous current	5 A
Interrupting rating (ohmic load) max.	120 W (at 24 V DC)
	100 W (at 48 V DC)
	78 W (at 60 V DC)
	55 W (at 110 V DC)
	80 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
Pollution degree	2
Surge voltage category	II
Mounting position	any
Assembly instructions	In rows with zero spacing

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Connection data

Connection method	Screw connection
Stripping length	7 mm
Conductor cross section stranded min.	0.14 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG/kcmil max	14
Conductor cross section AWG/kcmil min.	26

Articles in set

Relay socket - PR2-BSC3/4X21 - 2833576

Relay socket 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-230AC/4X21AU - 2834148

Plug-in industrial relay with power contacts and additional hard gold plating, 4 PDTs, test button, status LED, mechanical switch setting display, coil voltage: 230 V AC

Plug-in module - V-120-230UC - 2833880

Plug-in module, for mounting on PR1 and PR2, with varistor, input voltage: 120-230 V AC/DC ± 20%

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Articles in set

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
eCl@ss 5.0	27371603
eCl@ss 5.1	27371603
eCl@ss 6.0	27371603
eCl@ss 7.0	27371603
eCl@ss 8.0	27371603

ETIM

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

UNSPSC

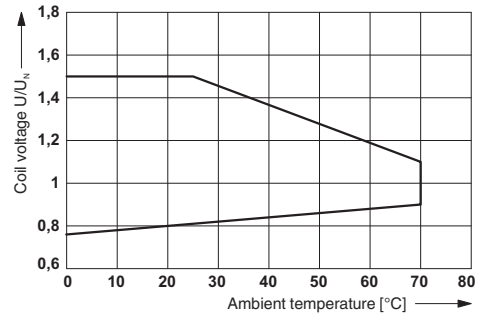| UNSPSC 6.01	30211917
UNSPSC 7.0901	39121516
UNSPSC 11	39121516
UNSPSC 12.01	39121516
UNSPSC 13.2	39121516

Drawings

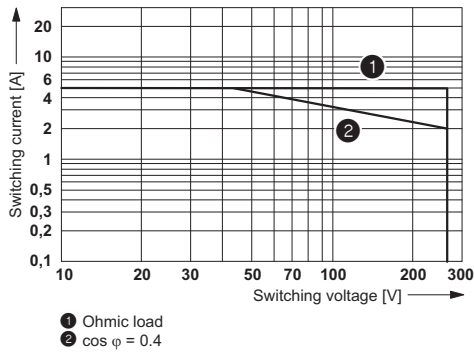# Relay Module - PR2-RSC3-LV-230AC/4X21AU - 2834753

Circuit diagram
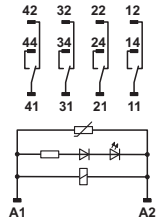
Diagram

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

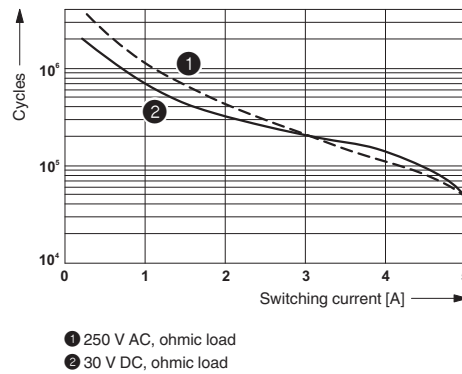### Diagram

❶ Ohmic load
❷ cos φ = 0.4

AC interrupting rating

Diagram

❶ L/R < 7 ms
❷ ohmic load
❸ ohmic load, 2 contacts in series
❹ ohmic load, 4 contacts in series

DC interrupting rating

Diagram

❶ 250 V AC, ohmic load
❷ 30 V DC, ohmic load
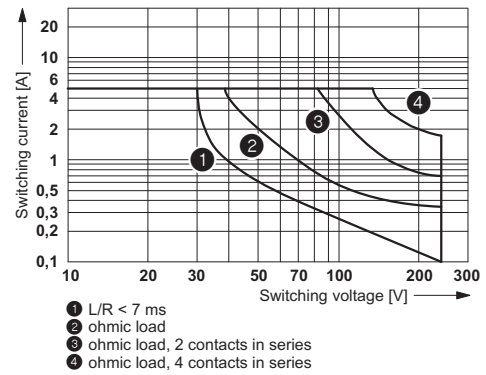
Electrical service life