

Relay Module - PR1-RSC3-LDP-24DC/2X21 - 2834481

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Preassembled relay modules with screw connection, consisting of: Relay socket, power contact relay with pluggable display or interference suppression module and retaining bracket. Input voltage: 24 V DC, two PDTs, 8 A

Why buy this product

- Safe isolation between coil and contact side
- Operational reliability thanks to sealed relay
- Logical contact arrangement thanks to 1/3-level relay base



Key commercial data

Packing unit	5 pc
Minimum order quantity	5 pc
GTIN	 4 046356 044370
Weight per Piece (excluding packing)	66.63 g
Weight per piece (including packing)	66.63 g
Custom tariff number	85364900
Country of origin	Germany
Sales Key	G1 - Relay

Technical data

Note:

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

Width	16 mm
Height	78.5 mm
Depth	71 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
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Technical data

Ambient conditions

Ambient temperature (storage/transport)	-25 °C ... 85 °C
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Coil side

Nominal input voltage U_N	24 V DC
Typical input current at U_N	19 mA
Typical response time	8 ms
Typical release time	10 ms
Operating voltage display	Yellow LED
Protective circuit	Damping diode

Contact side

Contact type	2 PDT
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 10 mA)
Maximum inrush current	15 A (300 ms)
Min. switching current	10 mA (At 5 V)
Limiting continuous current	8 A
Interrupting rating (ohmic load) max.	2000 W (for 250 V AC)
	44 W (at 110 V DC)
	60 W (at 220 V DC)
	190 W (at 24 V DC)
	(At 440 V AC)
	85 W (at 48 V DC)
	60 W (at 60 V DC)
Interrupting rating (lamp load) max.	50 mW

General

Test voltage relay winding/relay contact	4 kV (50 Hz, 1 min.)
Test voltage relay contact/relay contact	2.5 kV (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	3×10^7 cycles
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Pollution degree	3
Surge voltage category	III
Mounting position	any
Assembly instructions	In rows with zero spacing

Connection data

Connection method	Screw connection
Stripping length	8 mm

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Technical data

Connection data

Conductor cross section stranded min.	0.14 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG/kcmil max.	14
Conductor cross section AWG/kcmil min.	26
Screw thread	M3

Articles in set

Relay socket - PR1-BSC3/2X21 - 2833521



Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, screw connections, connection facility for input/interference suppression modules

Single relay - REL-MR- 24DC/21-21 - 2961192



Pluggable miniature relays, with power contact, 2 PDT, input voltage 24 V DC

Plug-in module - LDP- 12- 24DC - 2833657



Plug-in module, for mounting on PR1 and PR2, with damping diode and yellow LED, polarity: A1+, A2-, input voltage: 12 -24 V DC ± 20%

Relay retaining bracket - EL1-P16 - 2833547



Relay retaining bracket, with eject function and integrated equipment marking area (7.5 x 15 mm), to suit relay socket PR1, for 16 mm high miniature power relay and solid-state relay

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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

Accessories

Accessories

Bridge

Wire bridge - DB 50- 90 BU - 2821180

Wire bridge, Color: blue



Wire bridge - DB 50- 90 BK - 2820916

Wire bridge, Color: black



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Accessories

Wire bridge - DB 50- 90 GY - 2820929

Wire bridge, Color: gray



Device marking

Label - EML (15X6) R YE - 0819288



Label, Roll, yellow, Unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK X, THERMOMARK S1.1, Mounting type: Adhesive, Lettering field: 15 x 6 mm

Marking material

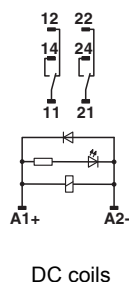
Marker labels - MP 1 - 2833631



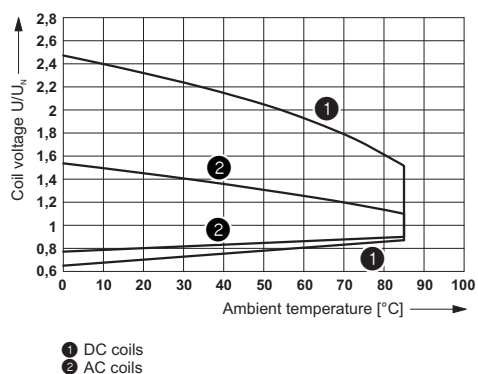
Equipment marker, labeling surface 6 x 15 mm

Drawings

Circuit diagram



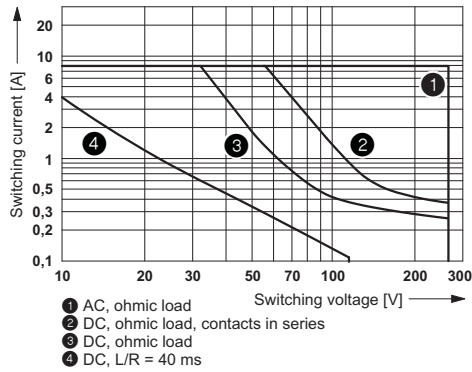
Diagram



Operating voltage range of the relay

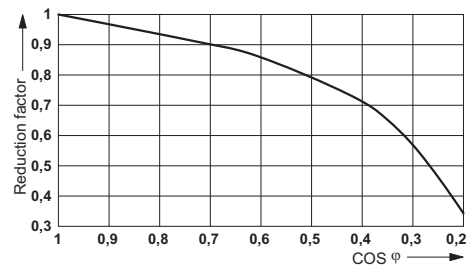
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Diagram



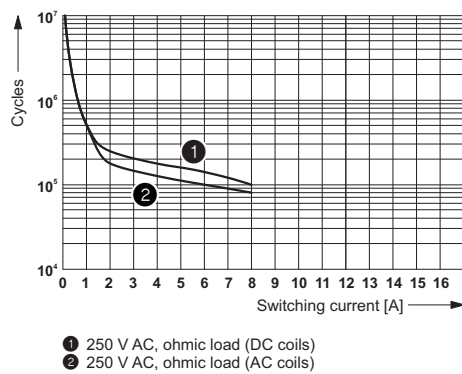
Interrupting rating

Diagram



Service life reduction factor with various cos phi

Diagram



Electrical service life