

Relay Module - PR1-RSP3-LDP-24DC/21 - 2834407

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Preassembled relay modules with spring-cage connection, consisting of: relay base, power contact relay, pluggable display or interference suppression module and retaining bracket. Input voltage: 24 V DC, 1 PDT, 10 A

Your advantages

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



Key Commercial Data

Packing unit	5 pc
GTIN	 4 046356 044295
GTIN	4046356044295

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	97 mm
Depth	72 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C

Coil side

Nominal input voltage U_N	24 V DC
Typical input current at U_N	19 mA

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Coil side

Typical response time	8 ms
Typical release time	10 ms
Protective circuit	Damping diode
Operating voltage display	Yellow LED
Power dissipation for nominal condition	0.46 W

Contact side

Contact type	1 PDT
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Min. switching current	10 mA (at 12 V)
Maximum inrush current	30 A (300 ms)
Limiting continuous current	10 A
Interrupting rating (ohmic load) max.	3000 W (for 250 V AC)
	50 W (at 110 V DC)
	80 W (at 220 V DC)
	288 W (at 24 V DC)
	at 440 V AC
	58 W (at 48 V DC)
	48 W (at 60 V DC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.2 A (at 250 V, DC13)
	6 A (at 24 V, AC15)
	6 A (at 120 V, AC15)
	6 A (at 250 V, AC15)

General

Test voltage relay winding/relay contact	4 kV (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	3x 10 ⁷ cycles
Mounting position	any
Assembly instructions	In rows with zero spacing

Connection data input side

Connection name	Coil side
Connection method	Spring-cage connection
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

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Technical data

Connection data input side

Conductor cross section AWG	24 ... 16
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Standards and Regulations

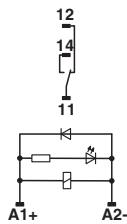
Standards/regulations	IEC 60664
	EN 50178
Degree of pollution	3
Overvoltage category	III

Environmental Product Compliance

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

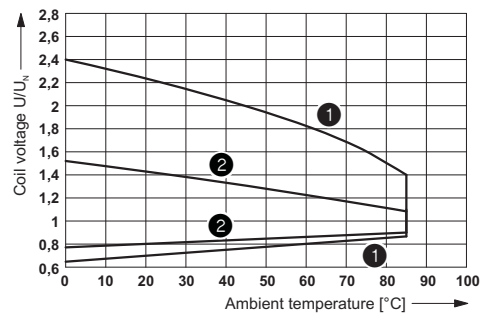
Drawings

Circuit diagram



DC coils

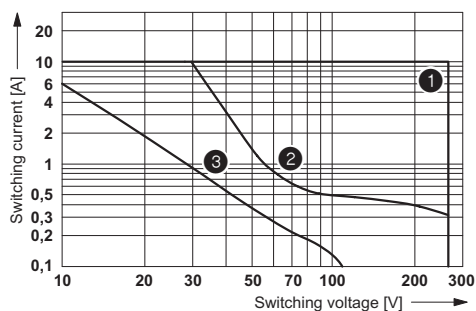
Diagram



- ① DC coils
- ② AC coils

Operating voltage range of the relay

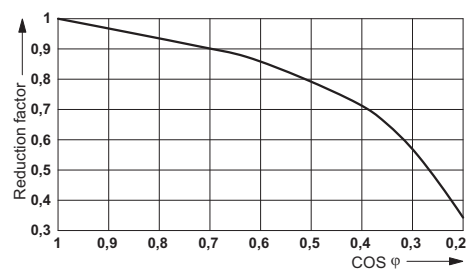
Diagram



- ① AC, ohmic load
- ② DC, ohmic load
- ③ DC, L/R = 40 ms

Interrupting rating

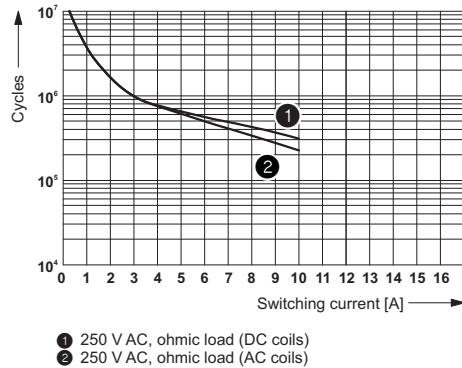
Diagram



Service life reduction factor with various cos phi

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Diagram



Electrical service life

Articles in set

Relay base - PR1-BSP3/2X21 - 2833534



Relay base 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, spring-cage connections, connection facility for input/interference suppression modules

Single relay - REL-MR- 24DC/21HC - 2961312



Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 24 V DC

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



Plug-in module, with freewheeling diode and yellow LED, polarity: A1+, A2-, input voltage: 12 ... 24 V DC \pm 20 %

Retaining bracket - EL1-P16 - 2833547



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

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Articles in set

Approvals


Approvals

Approvals

EAC

Ex Approvals

Approval details

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