

Relay Module - PR1-RSP3-LV-230AC/2X21 - 2834591

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Preassembled relay modules with spring-cage connection, consisting of: relay base plug-in miniature power relay with power contacts, plug-in display/interference suppression module and relay retaining bracket. Input voltage: 230 V AC, contacts: 2 PDT, 8 A

Your advantages

- ✓ 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
GTIN	 4 046356 044486
GTIN	4046356044486

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	230 V AC
Typical input current at U_N	6 mA (at 50 Hz)

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Coil side

	5.5 mA (At 60 Hz)
Typical response time	3 ms ... 12 ms
Typical release time range	2 ms ... 22 ms
Protective circuit	Varistor
Operating voltage display	Yellow LED
Power dissipation for nominal condition	1.38 W

Contact side

Contact type	2 PDT
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 10 mA)
Min. switching current	10 mA (At 5 V)
Maximum inrush current	15 A (300 ms)
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)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
	0.2 A (at 250 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 250 V, AC15)

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	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

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Technical data

Connection data input side

Conductor cross section flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross section AWG	24 ... 16

Standards and Regulations

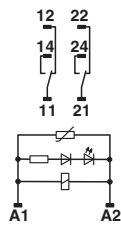
Standards/regulations	IEC 60664
	EN 50178
Degree of pollution	3
Overvoltage category	III

Environmental Product Compliance

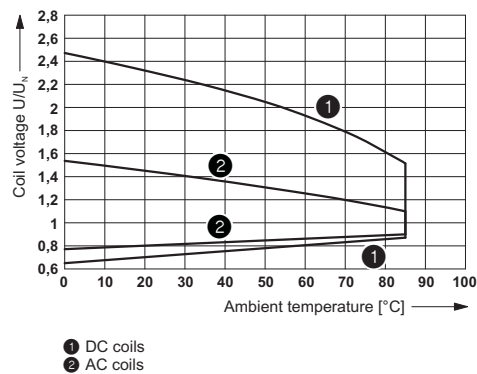
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Circuit diagram

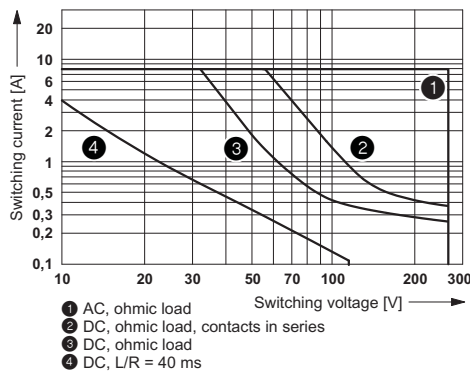


Diagram

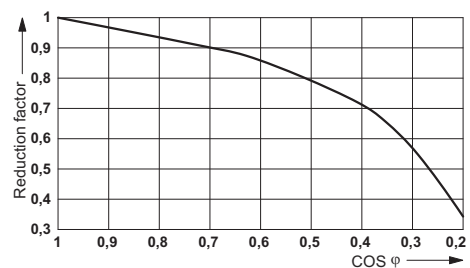


Operating voltage range of the relay

Diagram



Diagram

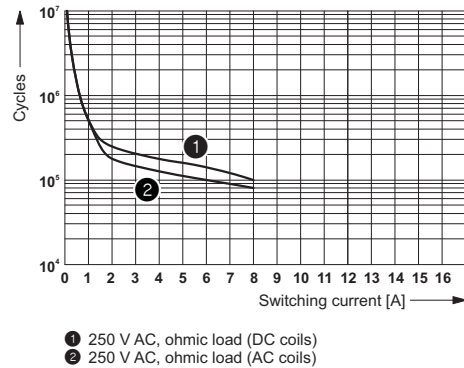


Interrupting rating

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-230AC/21-21 - 2961451



Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 230 V AC

Plug-in module - LV-120-230AC/110DC - 2833738



Plug-in module, with varistor and yellow LED, input voltage: 120 ... 230 V AC / 110 V DC ±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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