

Relay Module - PR1-RSC3-LV-230AC/2X21 - 2834517

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Preassembled relay modules with screw 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
- 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 044400
GTIN	4046356044400

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
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	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
Service life, electrical	see diagram
Mounting position	any
Assembly instructions	In rows with zero spacing

Connection data input side

Connection name	Coil side
Connection method	Screw connection
Stripping length	8 mm

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Connection data input side

Screw thread	M3
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 14

Connection data output side

Connection name	Contact side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 14

Standards and Regulations

Standards/regulations	IEC 60664
	EN 50178
Pollution degree	3
Overvoltage category	III

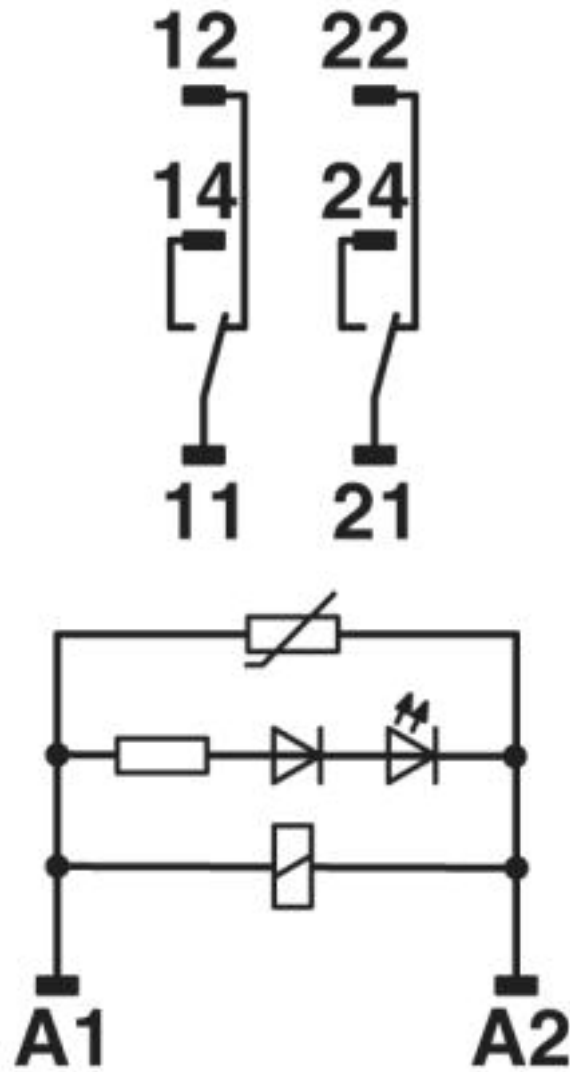
Environmental Product Compliance

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

Drawings

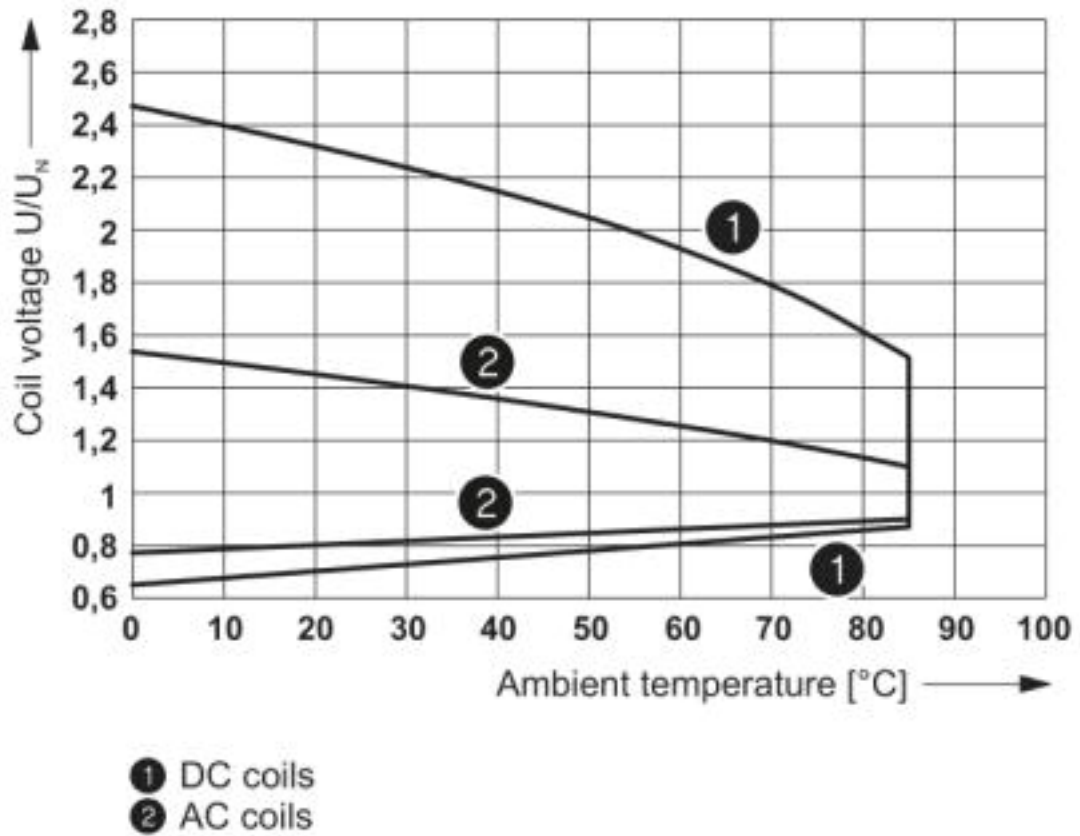
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Circuit diagram



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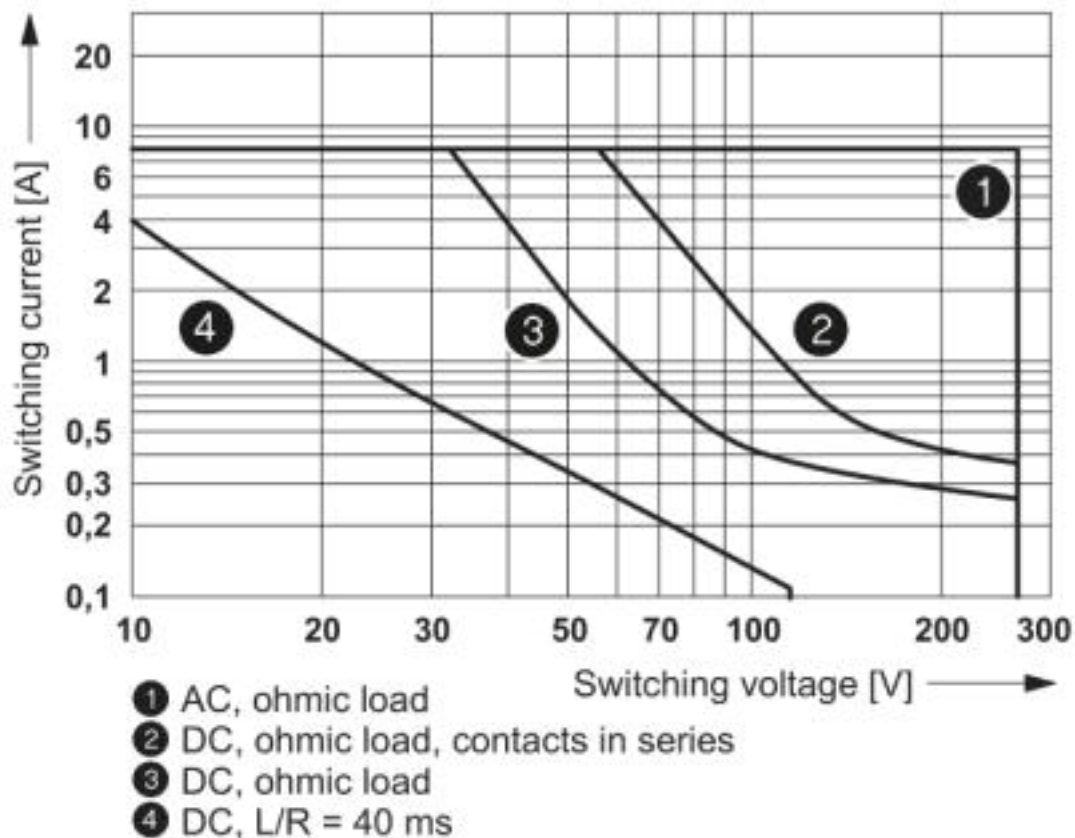
Diagram



Operating voltage range of the relay

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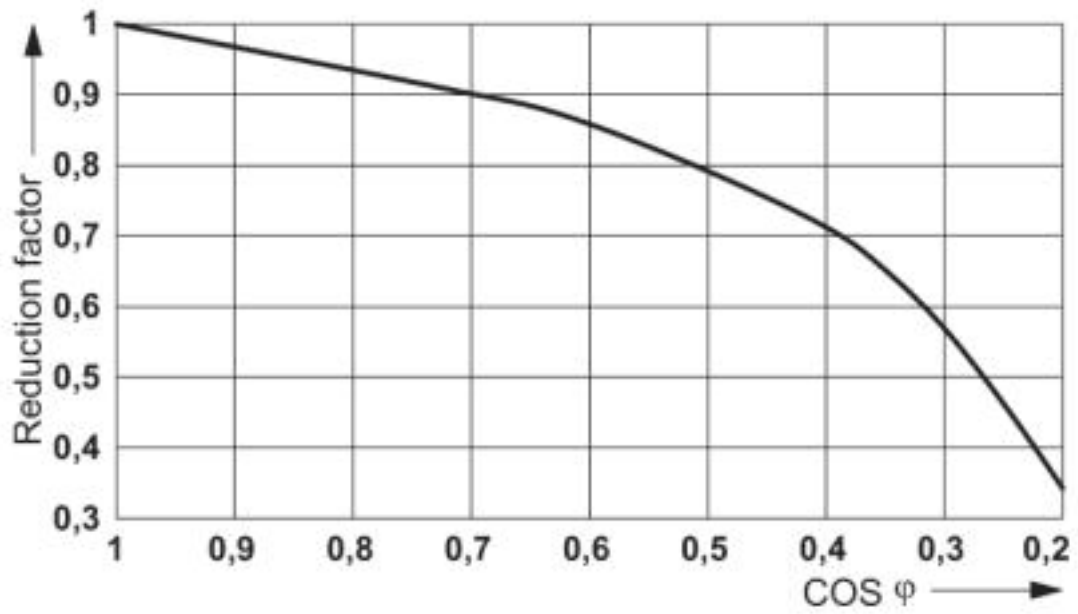
Diagram



Interrupting rating

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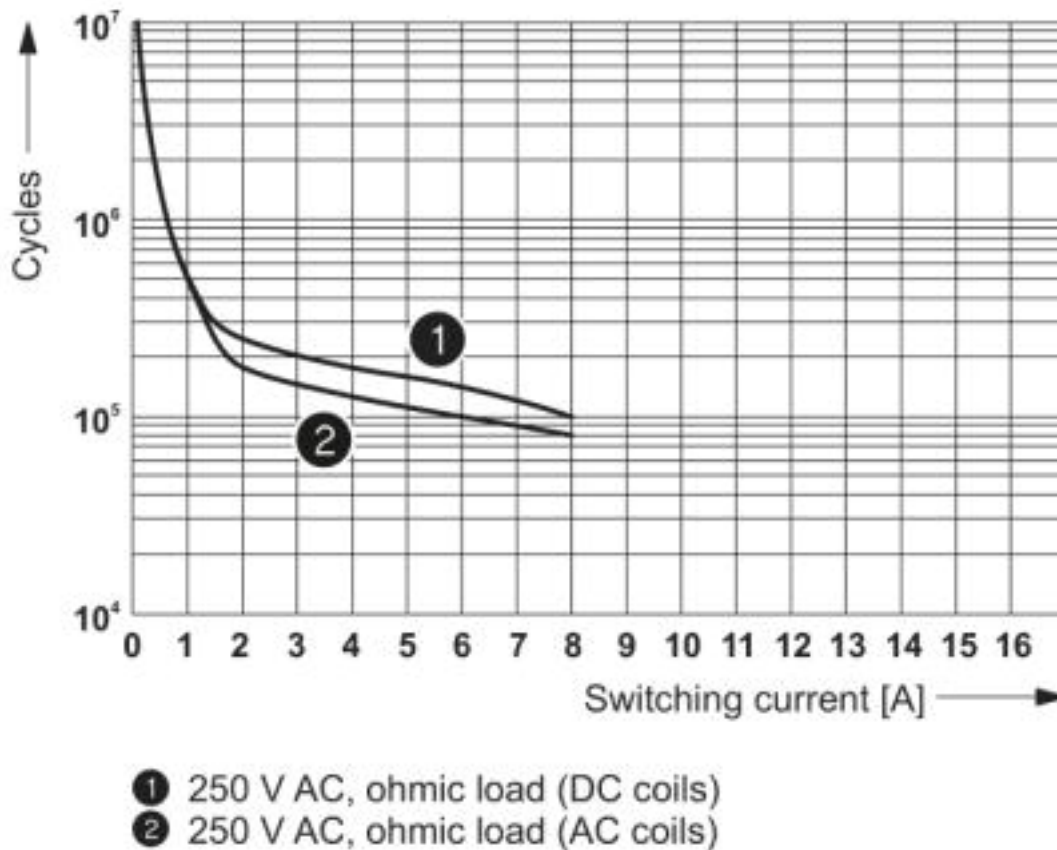
Diagram



Service life reduction factor with various cos phi

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Diagram



Electrical service life

Articles in set

Relay base - PR1-BSC3/2X21 - 2833521



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, screw 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

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Articles in set

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 \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

Marker labels - MP 1 - 2833631



Equipment marker, labeling surface 6 x 15 mm

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approval details

EAC		TR_TS_D_00573_c
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EAC		TR_TS_S_00010_c
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