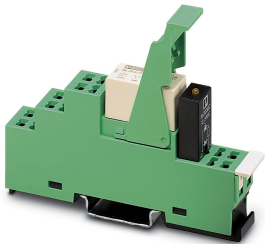


Relay Module - PR1-RSP3-LV-120AC/2X21 - 2834588

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Pre-assembled 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: 120 V AC, contacts: 2 changeover contacts, 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

RoHS

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	5 pc
GTIN	 4 046356 044479
GTIN	4046356044479
Weight per Piece (excluding packing)	65.770 g
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
-------------------------	---

Ambient conditions

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

Relay Module - PR1-RSP3-LV-120AC/2X21 - 2834588

Technical data

Coil side

Nominal input voltage U_N	120 V AC
Typical input current at U_N	9 mA (at 50 Hz)
	7 mA (At 60 Hz)
Typical response time	3 ms ... 12 ms
Typical release time range	1.5 ms ... 16 ms
Protective circuit	Varistor
Operating voltage display	Yellow LED
Power dissipation for nominal condition	1.08 W

Contact side

Contact type	2 changeover contacts
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	4 kV (50 Hz, 1 min., winding/contact)
	2.5 kV (50 Hz, 1 min., contact/contact)
Operating mode	100% operating factor
Mechanical service life	3×10^7 cycles
Service life, electrical	see diagram
Mounting position	any

Relay Module - PR1-RSP3-LV-120AC/2X21 - 2834588

Technical data

General

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
Conductor cross section AWG	24 ... 16

Standards and Regulations

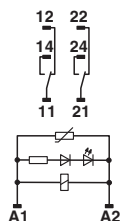
Standards/regulations	IEC 60664
	EN 50178
Pollution degree	3
Overvoltage category	III

Environmental Product Compliance

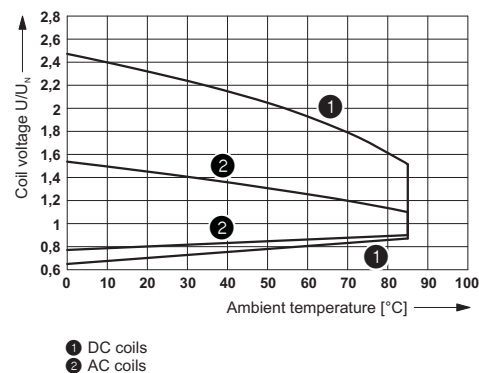
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Circuit diagram



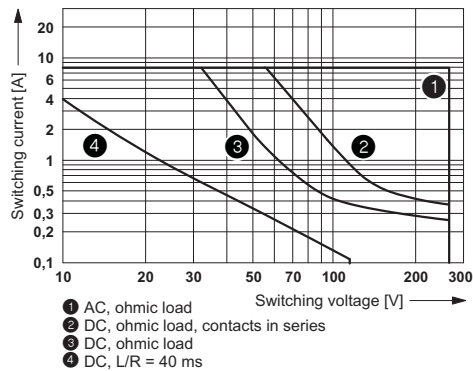
Diagram



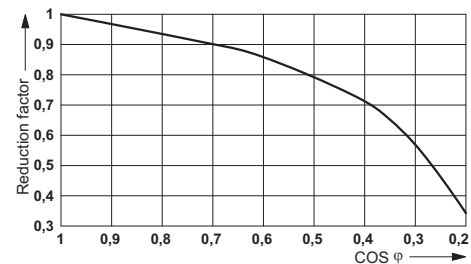
Operating voltage range of the relay

Relay Module - PR1-RSP3-LV-120AC/2X21 - 2834588

Diagram



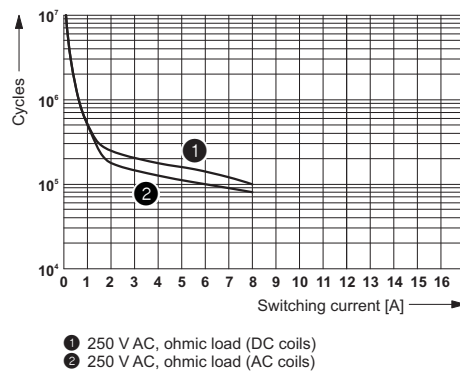
Diagram



Interrupting rating

Service life reduction factor with various $\cos \varphi$

Diagram



Electrical service life

Articles in set

Relay base - PR1-BSP3/2X21 - 2833534



PR1... relay base, for miniature power relays or miniature switching relays with 1 or 2 changeover contacts or solid-state relays with the same design, 1/3-level version, spring-cage connections, plug-in option for input/interference suppression modules

Relay Module - PR1-RSP3-LV-120AC/2X21 - 2834588

Articles in set

Single relay - REL-MR-120AC/21-21 - 2961448



Plug-in miniature power relay, with power contact, 2 changeover contacts, input voltage 120 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 $\pm 20\%$

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

Classifications

eCl@ss

eCl@ss 5.0	27371601
eCl@ss 5.1	27371600
eCl@ss 6.0	27371600
eCl@ss 7.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437
ETIM 4.0	EC001437
ETIM 6.0	EC001437

UNSPSC

UNSPSC 6.01	30211916
-------------	----------

Relay Module - PR1-RSP3-LV-120AC/2X21 - 2834588

Classifications

UNSPSC

UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39122334
UNSPSC 19.0	39122334