


PR1-RSC3-LV-120AC/2X21

Order No.: 2834504



Preassembled relay modules with screw connection, consisting of:
 Relay socket 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 PDT, 8 A

Commercial data	
EAN	 4 046356 044394
Pack	5
Customs tariff	85364900
Gross weight in pieces	65.76 g
Country of Origin	DE
Catalog page information	Page 75 (IF-2011)

Product notes

WEEE/RoHS-compliant since:
22/08/2006



Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation at <http://www.download.phoenixcontact.com>. The General Terms and Conditions of Use apply to Internet downloads.

Technical data	
Coil side	
Nominal input voltage U_N	120 V AC
Nominal input current at U_{IN}	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
Operating voltage display	Yellow LED
Protective circuit	Varistor

Contact side

Contact type	Single contact, 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 VA (for 250 V AC)

General data

Width	16 mm
Height	78.5 mm
Depth	71 mm
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.)
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Operating mode	100% operating factor
Mechanical service life	3 x 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
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.14 mm ²

Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm
Screw thread	M3

Certificates

Certification

Certifications applied for:

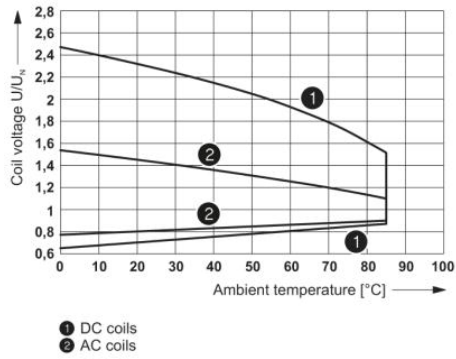
Certification Ex:

Product Sets

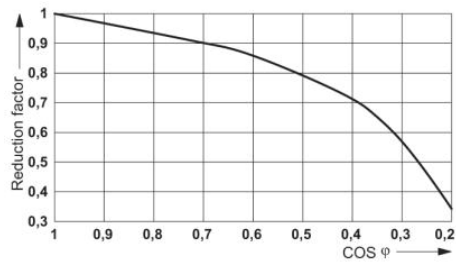
Item	Designation	Description
Allgemein		
2833547	EL1-P16	Relay retaining bracket, with eject function and integrated equipment marking area (7.5 x 15 mm), to suit relay socket PR1, for 16 mm high miniature power relay and solid-state relay
2833738	LV-120-230AC/110DC	Plug-in module, for mounting on PR1 and PR2, with varistor and yellow LED, input voltage: 120 - 230 V AC/110 V DC ± 20%
2833521	PR1-BSC3/2X21	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
2961448	REL-MR-120AC/21-21	Pluggable miniature relay, with power contact, 2 PDT, coil voltage 120 V AC

Drawings

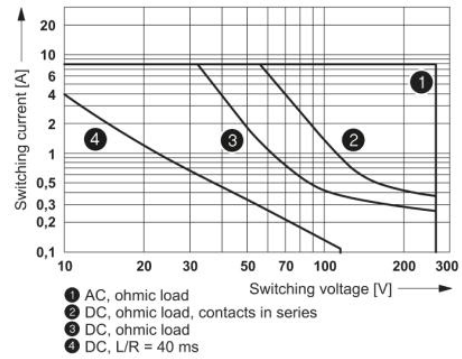
Diagram



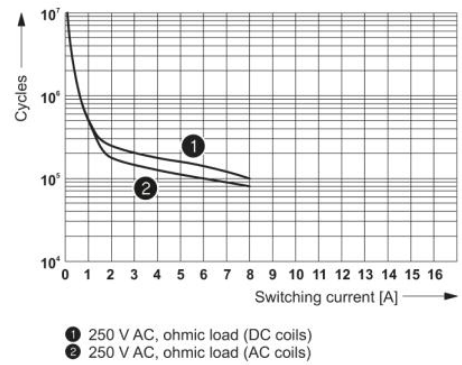
Operating voltage range of the relay



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

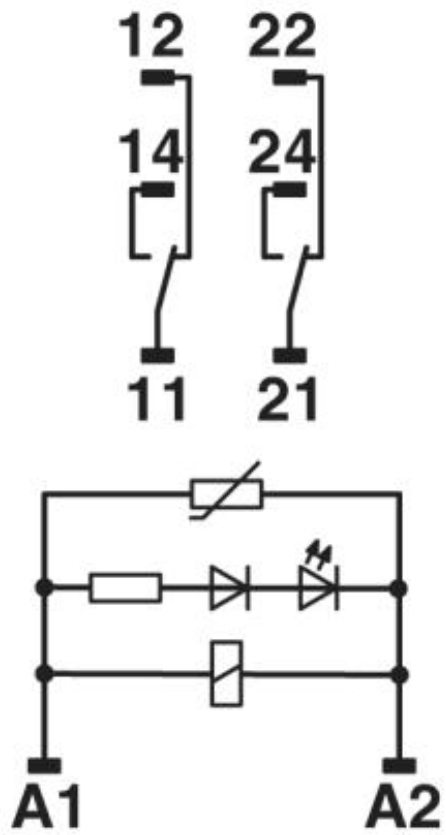


Interrupting rating



Electrical service life

Circuit diagram



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