


# PR1-RSC3-LV-230AC/2X21AU

Order No.: 2834559



Preassembled relay modules with screw connection, consisting of: Relay socket, pluggable multi-layer contact relay, pluggable display or interference suppression module and retaining bracket. Input voltage: 230 V AC, two PDTs, 8 A

Commercial data	
EAN	4 046356 044448 
Pack	5
Customs tariff	85364900
Gross weight in pieces	66.40 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	
<b>Coil side</b>	
Nominal input voltage $U_N$	230 V AC
Nominal input current at $U_{IN}$	6 mA (at 50 Hz) 5.5 mA (At 60 Hz)
Typical response time	3 ms ... 12 ms

Typical release time range	2 ms ... 22 ms
Operating voltage display	Yellow LED
Protective circuit	Varistor

#### Contact side

Contact type	Single contact, 2-PDT
Contact material	AgNi, hard gold-plated
Maximum switching voltage	30 V AC 36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Maximum inrush current	50 mA
Min. switching current	1 mA (at 24 V)
Limiting continuous current	50 mA
Note	<b>the following values are applicable if a gold layer is destroyed</b>
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V
Limiting continuous current	8 A
Maximum inrush current	15 A (300 ms)
Min. switching current	10 mA
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 <sup>7</sup> 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 <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.14 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
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:

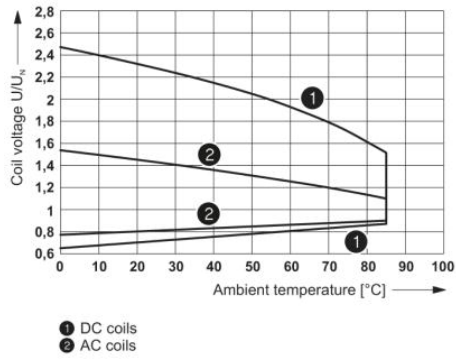
Certification Ex:

#### Product Sets

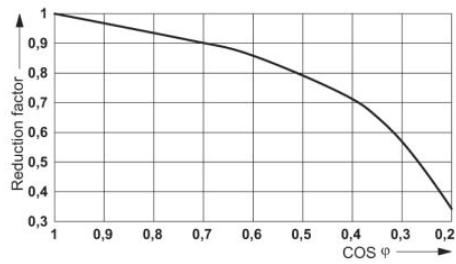
Item	Designation	Description
<b>Allgemein</b>		
2833547	EL1-P16	Relay retaining bracket, with eject function and integrated equipment marking area (7.5 x 15 mm), to suit relay socket PR1, for 16 mm high miniature power relay and solid-state relay
2833738	LV-120-230AC/110DC	Plug-in module, for mounting 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
2961480	REL-MR-230AC/21-21AU	Pluggable miniature relay with power contact and additional hard gold plating, 2 PDT, coil voltage 230 V AC

## Drawings

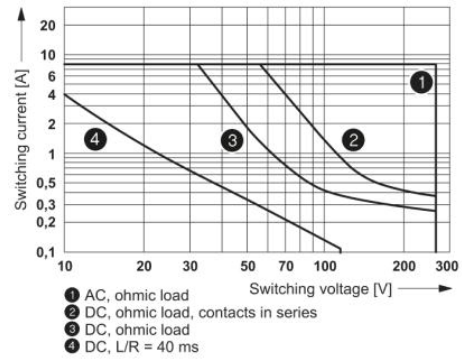
### Diagram



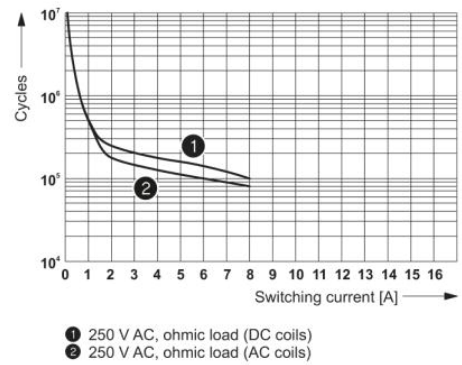
Operating voltage range of the relay



Service life reduction factor with various cos phi



Interrupting rating

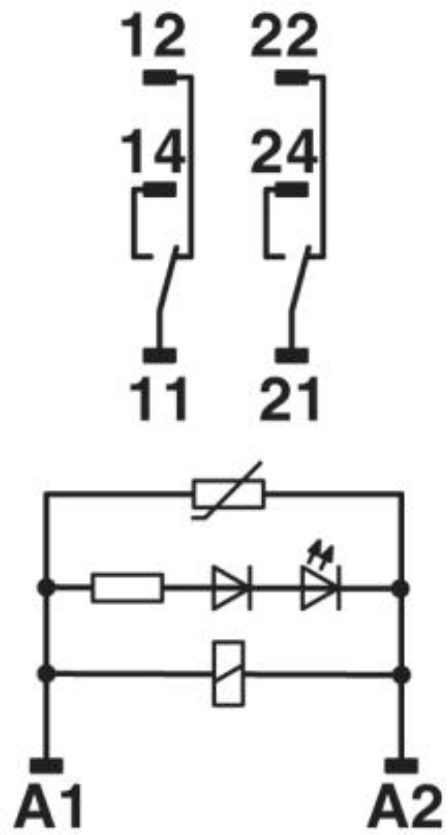


Electrical service life

---

Circuit diagram

---



---

**Address**

PHOENIX CONTACT Ltd  
Halesfield 13  
Telford / Shropshire / TF7 4PG, England  
Phone 01952 681 700  
Fax 01952 681 799  
<http://www.phoenixcontact.co.uk>



Phoenix Contact Ltd.  
Technical modifications reserved;