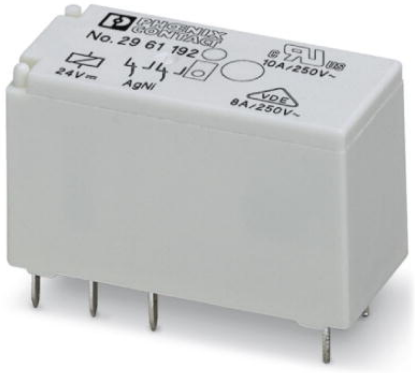
Extract from the online catalog

REL-MR-110DC/21-21

Order No.: 2961202



http://catalog.phoenixcontact.net/phoenix/treeViewClick.do?UID=2961202

Pluggable miniature relays, with power contact, 2 PDT, input voltage 110 V DC

Commercial data	
EAN	4 017918 158002
sales group	G084
Pack	10 Pcs.
Customs tariff	85364900
Gross weight in pieces	0.017252 KG
Net weight per piece	0.01686 KG
Catalog page information	Page 284 (C-7-2013)

Product notes

WEEE/RoHS-compliant since: 02/09/2006

http://www.download.phoenixcontact.com
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. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

Dimensions

Width	12.7 mm
Height	29 mm
Depth	15.7 mm

Ambient conditions	
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Coil side	
Nominal input voltage U_N	110 V DC
Typical input current at U_N	4.1 mA
Typical response time	7 ms
Typical release time	3 ms
Coil resistance	26600 Ω ±15 % (at 20 °C)

Contact side	
Contact type	2 PDT
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 10 mA)
Maximum inrush current	25 A (20 ms)
Min. switching current	10 mA (At 5 V)
Limiting continuous current	8 A
Interrupting rating (ohmic load) max.	190 W (at 24 V DC)
	85 W (at 48 V DC)
	60 W (at 60 V DC)
	44 W (at 110 V DC)
	60 W (at 220 V DC)
	2000 VA (for 250 V AC)
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	5 kV AC (50 Hz, 1 min.)
Test voltage relay contact/relay contact	2.5 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	3×10^7 cycles

Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage / insulation	Basic insulation
Pollution degree	3
Surge voltage category	III
Mounting position	any
Assembly instructions	Can be aligned without spacing (> 70 °C ≥ 2.5 mm)

Certificates / Approvals

Certification: cULus Recognized, GOST, VDE Gutachten mit Fertigungsüberwachung, GL

Certifications applied for:

Certification Ex:

Additional products

Item	Designation	Description
Basic terminal block with filter		
2980319	PLC-BSC-120UC/21/SO46	6.2 mm PLC basic terminal blocks with screw connection and integrated RCZ filter against interference currents and voltages on the control side, 120 V AC input voltage (without relay or optocoupler)
2980335	PLC-BSC-230UC/21/SO46	6.2 mm PLC basic terminal blocks with screw connection and integrated RCZ filter against interference currents and voltages on the control side, 230 V AC input voltage (without relay or optocoupler)
2980351	PLC-BSP-120UC/21/SO46	6.2 mm PLC basic terminal blocks with spring-cage connection and integrated RCZ filter against interference currents and voltages on the control side, 120 V AC input voltage (without relay or optocoupler)
2980377	PLC-BSP-230UC/21/SO46	6.2 mm PLC basic terminal blocks with spring-cage connection and integrated RCZ filter against interference currents and voltages on the control side, 230 V AC input voltage (without relay or optocoupler)

General

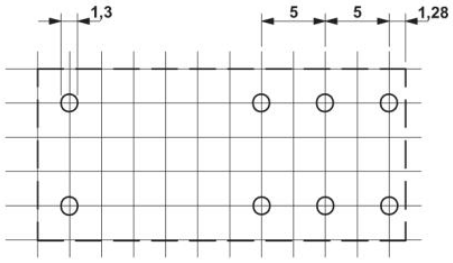
2967031	PLC-BSC-120UC/21-21	14 mm PLC basic terminal blocks with screw connection, 120 V AC/DC input voltage (without relay or optocoupler)
2980416	PLC-BSC-120UC/21-21/SO46	14 mm PLC basic terminal blocks with screw connection and integrated RCZ filter against interference currents and voltages on the control side, 120 V AC input voltage (without relay or optocoupler)
2967044	PLC-BSC-230UC/21-21	14 mm PLC basic terminal blocks with screw connection, 230 V AC/DC input voltage (without relay or optocoupler)
2980429	PLC-BSC-230UC/21-21/SO46	14 mm PLC basic terminal blocks with screw connection and integrated RCZ filter against interference currents and voltages on the control side, 230 V AC input voltage (without relay or optocoupler)

Relay base

2900287	PLC-BPT-120UC/21-21	14 mm PLC basic terminal blocks with push-in connection, input voltage 120 V AC/DC (without relay or optocoupler)
2900453	PLC-BPT-120UC/21/SO46	6.2 mm PLC basic terminal blocks with push-in connection and integrated RCZ filter against interference currents/voltages on the control side, input voltage 120 V AC (without relay or optocoupler)
2900288	PLC-BPT-230UC/21-21	14 mm PLC basic terminal blocks with push-in connection, input voltage 230 V AC/DC (without relay or optocoupler)
2900455	PLC-BPT-230UC/21/SO46	6.2 mm PLC basic terminal blocks with push-in connection and integrated RCZ filter against interference currents/voltages on the control side, input voltage 230 V AC (without relay or optocoupler)
2912471	PLC-BSP-120UC/21-21	14 mm PLC basic terminal blocks with spring-cage connection, 120 V AC/DC input voltage (without relay or optocoupler)
2912484	PLC-BSP-230UC/21-21	14 mm PLC basic terminal blocks with spring-cage connection, 230 V AC/DC input voltage (without relay or optocoupler)
2833518	PR1-BSC2/2X21	Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 2/2 level design, screw connections, connection facility for input/interference suppression modules
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
2833534	PR1-BSP3/2X21	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, spring-cage connections, connection facility for input/interference suppression modules

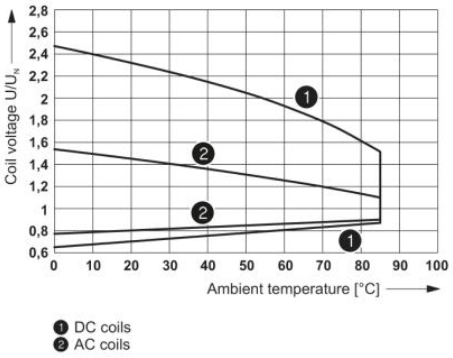
Drawings

Drilling plan/solder pad geometry

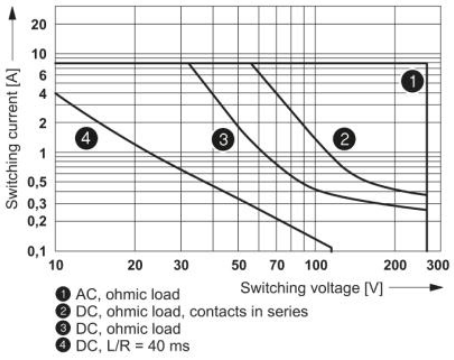


a = pitch division 2.5 mm

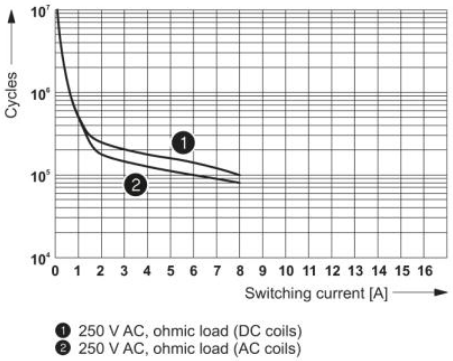
Diagram



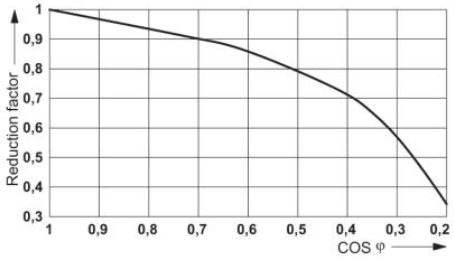
Operating voltage range



Interrupting rating

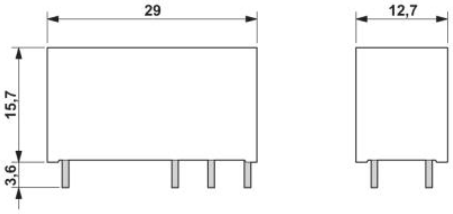


Electrical service life

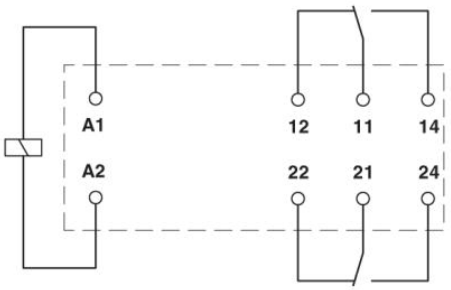


Service life reduction factor with various cos phi

Dimensioned drawing



Circuit diagram



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