


REL-MR-120AC/21HC/MS

Order No.: 2987901

The figure shows the 230 V version.

<http://catalog.phoenixcontact.net/phoenix/treeViewClick.do?UID=2987901>

Plug-in miniature relay, with power contact, 1 PDT, test button,
mechanical switch position indicator, status LED, input voltage 120 V
AC

Commercial data	
EAN	 4 046356 481038
sales group	G084
Pack	10 Pcs.
Customs tariff	85364900
Gross weight in pieces	0.01758 KG
Net weight per piece	0.01758 KG
Catalog page information	Page 286 (C-7-2013)

Product notesWEEE/RoHS-compliant since:
12/16/2008

<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	25 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Coil side

Nominal input voltage U_N	120 V AC
Typical input current at U_N	7 mA
Typical response time	3 ms ... 12 ms (depending on phase relation)
Typical release time range	2 ms ... 8 ms (depending on phase relation)

Contact side

Contact type	1 PDT
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Maximum inrush current	32 A (20 ms)
Min. switching current	10 mA (at 12 V)
Limiting continuous current	16 A
Interrupting rating (ohmic load) max.	4000 VA (for 250 V AC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 240 V, AC15)

General

Test voltage relay winding/relay contact	5 kV AC (50 Hz, 1 min.)
Mechanical service life	5 x 10 ⁶ cycles
Standards/regulations	DIN EN 61810-1
	VDE 0435-201
	EN 50178
	IEC 62103

Certificates / Approvals



Certification

cULus Recognized, VDE Zeichengenehmigung

Certifications applied for:

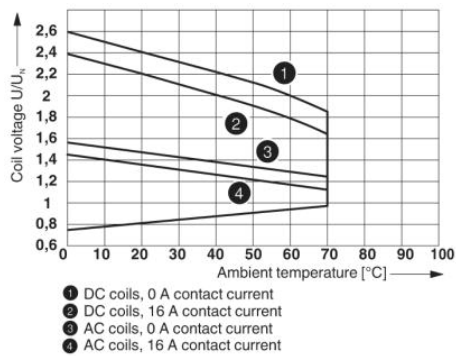
Certification Ex:

Additional products

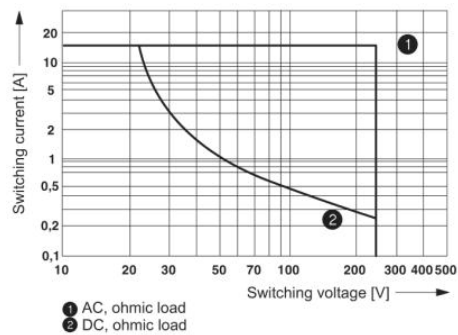
Item	Designation	Description
Relay base		
2833521	PR1-BSC3/2X21	Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, screw connections, connection facility for input/interference suppression modules
2833534	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

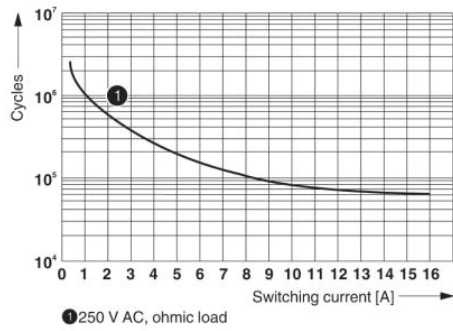
Diagram



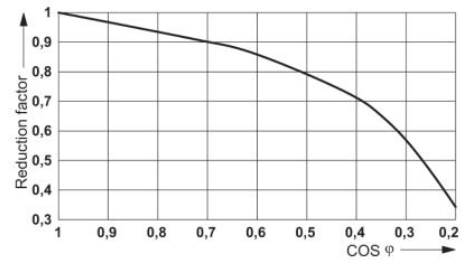
Operating voltage range



Interrupting rating

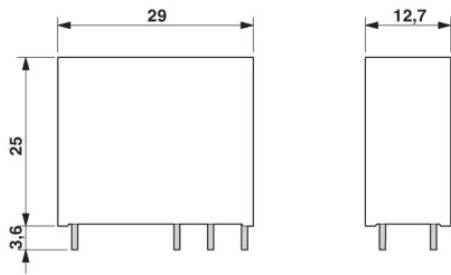


Electrical service life

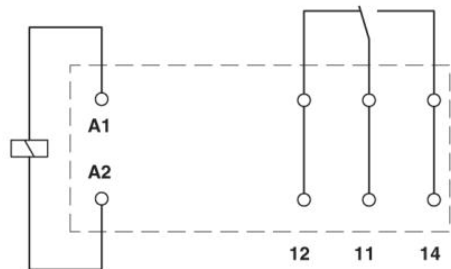


Service life reduction factor with various cos phi

Dimensioned drawing



Circuit diagram



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