


## REL-MR-120AC/21-21/MS

Order No.: 2987969

The figure shows the 230 V version.

<http://catalog.phoenixcontact.net/phoenix/treeViewClick.do?UID=2987969>

Plug-in miniature relay, with power contact, 2 PDTs, test button, mechanical switch position indicator, status LED, coil voltage 120 V AC

Commercial data	
EAN	 4 046356 480970
sales group	G084
Pack	10 Pcs.
Customs tariff	85364900
Gross weight in pieces	0.01739 KG
Net weight per piece	0.01739 KG
Catalog page information	Page 286 (C-7-2013)

**Product notes**WEEE/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	
<b>Dimensions</b>	
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	2 PDT
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Maximum inrush current	16 A (20 ms)
Min. switching current	10 mA (at 12 V)
Limiting continuous current	8 A
Interrupting rating (ohmic load) max.	2000 VA (for 250 V AC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	1 A (at 24 V, DC13)
	1.5 A (at 24 V, AC15)
	1.5 A (at 120 V, AC15)
	1.5 A (at 240 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.)
Mechanical service life	$5 \times 10^6$ cycles
Standards/regulations	DIN EN 61810-1
	VDE 0435-201
	EN 50178
	IEC 62103

**Certificates / Approvals**



Certification

cULus Recognized, VDE Zeichengenehmigung

Certifications applied for:

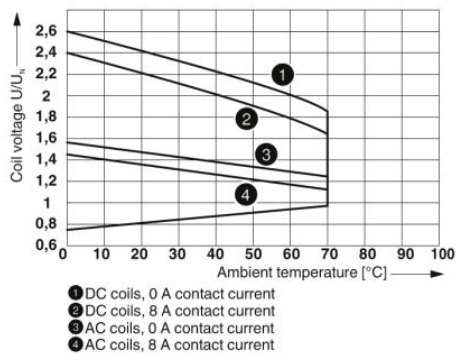
Certification Ex:

### Additional products

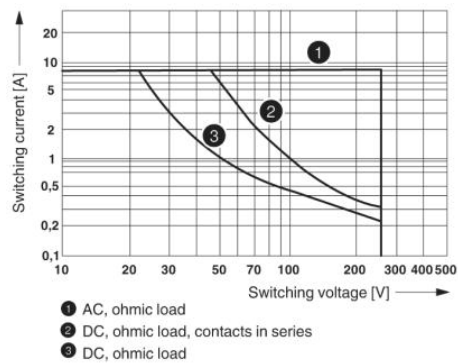
Item	Designation	Description
<b>Relay base</b>		
2833521	PR1-BSC3/2X21	Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, screw connections, connection facility for input/interference suppression modules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

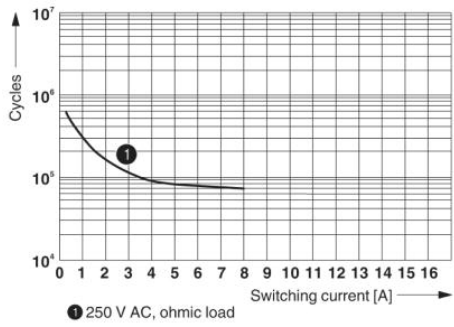
Diagram



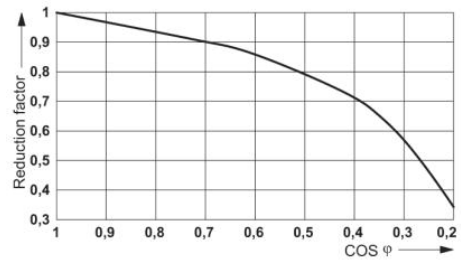
Operating voltage range



Interrupting rating

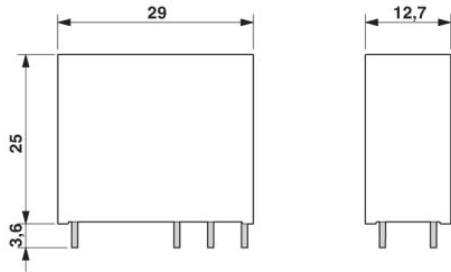


Electrical service life



Service life reduction factor with various cos phi

Dimensioned drawing



**Address**

PHOENIX CONTACT Deutschland GmbH  
Flachmarktstr. 8  
32825 Blomberg, Germany  
Phone +49 5235 3 12000  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>



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