


REL-MR- 24DC/21HC/MS

Order No.: 2987888

<http://catalog.phoenixcontact.net/phoenix/treeViewClick.do?UID=2987888>

Plug-in miniature relay, with power contact, 1 PDT, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2-, input voltage 24 V DC

Commercial data	
EAN	 4 046356 481014
sales group	G084
Pack	10 Pcs.
Customs tariff	85364190
Gross weight in pieces	0.01872 KG
Net weight per piece	0.01764 KG
Catalog page information	Page 286 (C-7-2013)

Product notes

WEEE/RoHS-compliant since:
12/16/2008

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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	24 V DC
Input voltage range in reference to U_N	see diagram
Typical input current at U_N	18 mA
Typical response time	9 ms
Typical release time	6 ms

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:

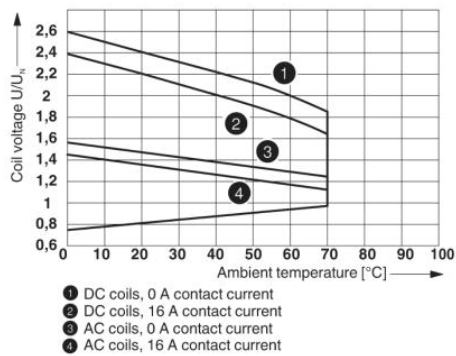
Certification Ex:

Additional products

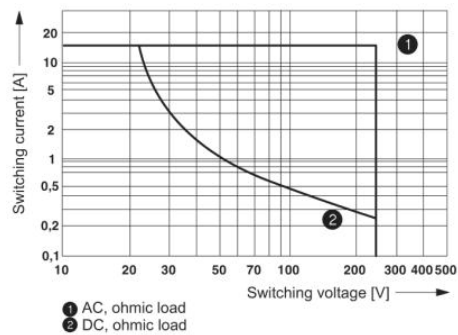
Item	Designation	Description
Relay base		
2833521	PR1-BSC3/2X21	Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, screw connections, connection facility for input/interference suppression modules
2833534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

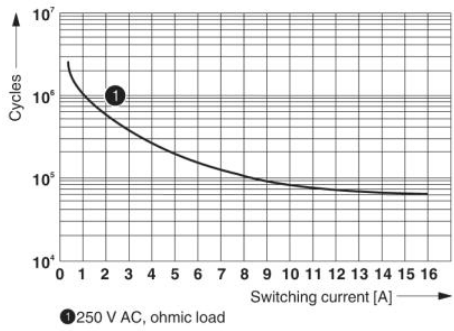
Diagram



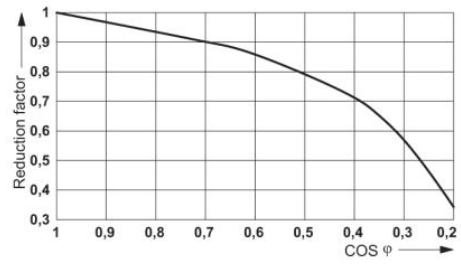
Operating voltage range



Interrupting rating

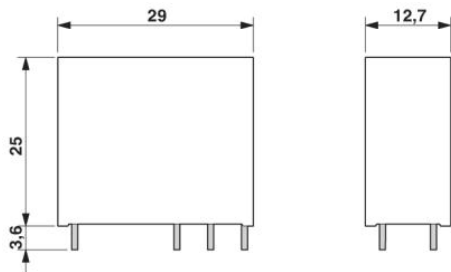


Electrical service life

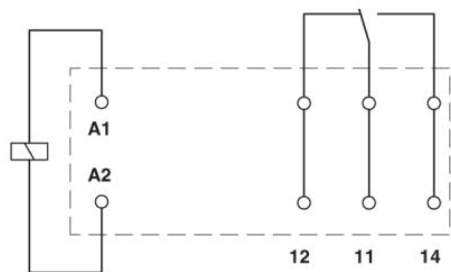


Service life reduction factor with various cos phi

Dimensioned drawing



Circuit diagram



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