

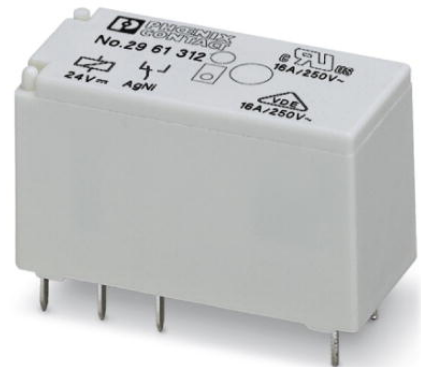


**THE DATASHEET OF**  
**2961312**



# REL-MR- 24DC/21HC

Order No.: 2961312



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2961312>

Pluggable miniature relays, with power contact for high continuous current, 1 PDT, input voltage 24 V DC

## Commercial data

EAN	4017918187576
Pack	10 pcs.
Customs tariff	85364190
Weight/Piece	0.017 KG
Catalog page information	Page 54 (IF-2009)

## Product notes

WEEE/RoHS-compliant since:  
08/09/2006



<http://www.download.phoenixcontact.com>  
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## Technical data

### Coil side

Nominal input voltage $U_N$	24 V DC
Nominal input current at $U_{IN}$	17 mA
Typical response time	7 ms
Typical release time	3 ms
Coil resistance	1440 $\Omega \pm 10\%$ (at 20°C)

**Contact side**

Contact type	Single contact, 1-PDT
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Maximum inrush current	30 A (300 ms)
Min. switching current	100 mA
Limiting continuous current	16 A
Interrupting rating (ohmic load) max.	384 W (for 24 V DC)
	58 W (for 48 V DC)
	48 W (for 60 V DC)
	50 W (for 110 V DC)
	80 W (for 220 V DC)
	4000 VA (for 250 V AC)

**General data**

Width	12.7 mm
Height	15.7 mm
Depth	29 mm
Test voltage relay winding/relay contact	5 kV AC (50 Hz, 1 min)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Operating mode	100% operating factor
Service life mechanical	3 x 10 <sup>7</sup> cycles
Standards/regulations	IEC 60664
	IEC 60664 A
	DIN VDE 0110
	DIN VDE 0106-101
	DIN EN 50178/DIN VDE 0160 (in relevant parts)
	IEC 60255/DIN VDE 0435 (in relevant parts)
	EN 60730/DIN VDE 0631
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

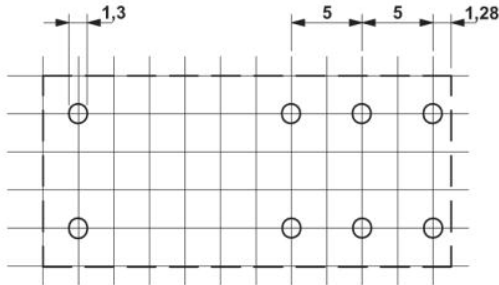
CUL, GL, GOST, UL, VDE-PZI

**Additional products**

Item	Designation	Description
<b>General</b>		
2967772	PLC-BSC- 24DC/21HC	14 mm PLC-HC basic terminal blocks with screw connection method, input voltage 24 V DC(without relay or optocoupler)
2967785	PLC-BSC- 24UC/21HC	14 mm PLC-HC basic terminal blocks with screw connection method, input voltage 24 V AC/DC(without relay or optocoupler)
2967798	PLC-BSC- 48DC/21HC	14 mm PLC-HC basic terminal blocks with screw connection method, input voltage 48 V DC(without relay or optocoupler)
2912345	PLC-BSP- 24DC/21HC	14 mm PLC basic terminal blocks with spring-cage connection method, input voltage 24 V DC(without relay or optocoupler)
2912358	PLC-BSP- 24UC/21HC	14 mm PLC basic terminal blocks with spring-cage connection method, input voltage 24 V AC/DC(without relay or optocoupler)
2912361	PLC-BSP- 48DC/21HC	14 mm PLC basic terminal blocks with spring-cage connection method, input voltage 48 V DC(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

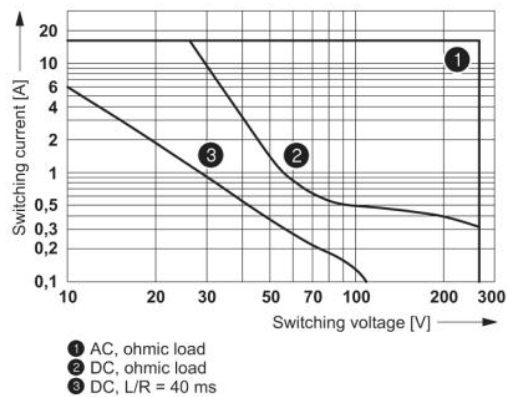
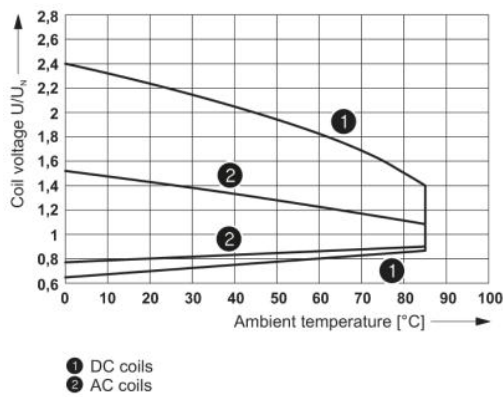
**Diagrams/Drawings**

Drilling plan/solder pad geometry

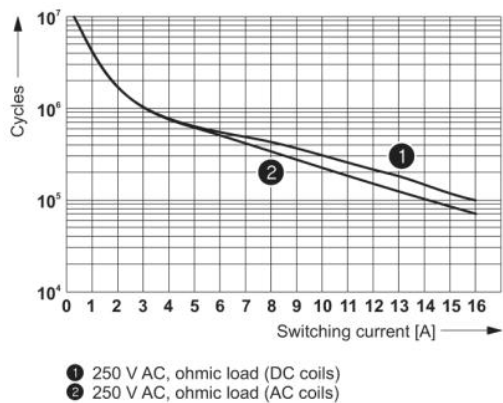


a = pitch division 2.5 mm

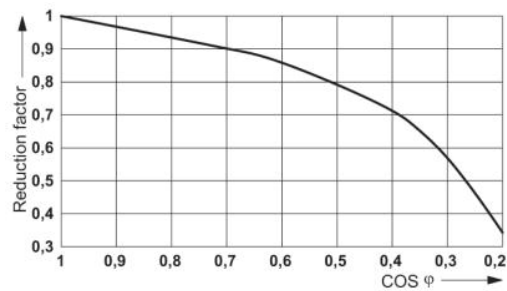
Diagram



Operating voltage range



Interrupting rating

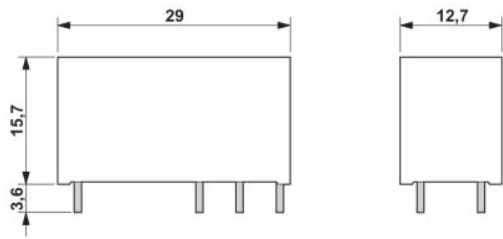


Service life reduction factor with various cos phi

Electrical service life

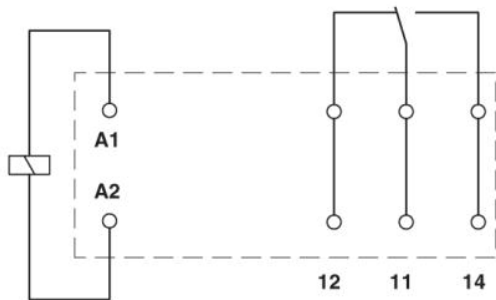
Dimensioned drawing

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Circuit diagram

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