

REL-MR- 12DC/21AU

Order No.: 2961163


The illustration shows the version REL-MR- 24DC/21



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2961163>

Pluggable miniature relays, with multi-layer contact, 1 PDT, input voltage 12 V DC

Commercial data

GTIN (EAN)	 4 017918 146870
Note	Made-to-order
sales group	G084
Pack	10 pcs.
Customs tariff	85364190
Catalog page information	Page 92 (IF-2009)

Product notes

WEEE/RoHS-compliant since:
08/29/2006



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

Coil side

Nominal input voltage U_N	12 V DC
Nominal input current at U_{IN}	14 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	848 $\Omega \pm 10\%$ (at 20°C)

Contact side

Contact type	Single contact, 1-PDT
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	30 V AC 36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Maximum inrush current	50 mA
Min. switching current	1 mA (at 24 V)
Limiting continuous current	50 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	140 W (at 24 V DC) 20 W (for 48 V DC) 18 W (for 60 V DC) 23 W (for 110 V DC) 40 W (for 220 V DC) 1500 VA (for 250 V AC)

General data

Width	5 mm
Height	28 mm
Depth	15 mm
Test voltage relay winding/relay contact	4 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
Mechanical service life	2 x 10 ⁷ cycles
Standards/regulations	IEC 60664 EN 50178 IEC 62103
Pollution degree	3

Surge voltage category	III
Mounting position	Any
Assembly instructions	In rows with zero spacing

Connection data

Type of connection	Plug / solder connection
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Certificates / Approvals



Certification

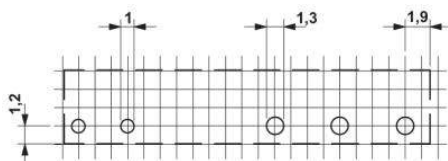
CUL, GL, GOST, UL, VDE-PZI, VDE-PZI

Additional products

Item	Designation	Description
General		
2966896	PLC-BSC- 12DC/21	6.2 mm PLC basic terminal blocks with screw connection method, input voltage 12 V DC(without relay or optocoupler)
2967219	PLC-BSP- 24DC/21	6.2 mm PLC basic terminal blocks with spring-cage connection method, input voltage 24 V DC(without relay or optocoupler)

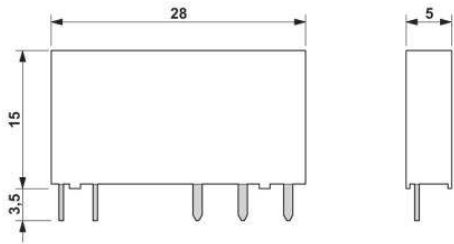
Diagrams/Drawings

Drilling plan/solder pad geometry

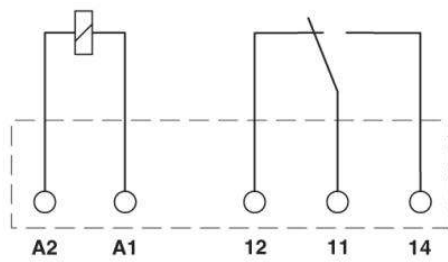


a = pitch division 1.25 mm and 1.27 mm

Dimensioned drawing



Circuit diagram



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