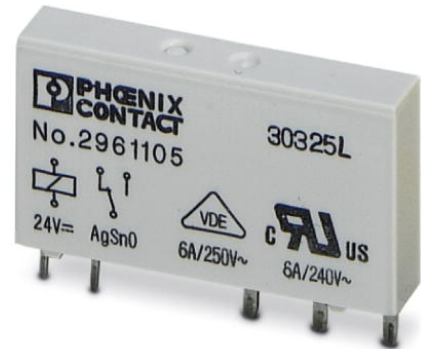


# REL-MR- 24DC/21


Order No.: 2961105



<http://catalog.phoenixcontact.net/phoenix/treeViewClick.do?UID=2961105>

Pluggable miniature relays, with power contact, 1 PDT, input voltage 24 V DC

## Commercial data

EAN	 4 017918 130893
sales group	G084
Pack	10 Pcs.
Customs tariff	85364190
Gross weight in pieces	0.006945 KG
Net weight per piece	0.00671 KG
Catalog page information	Page 98 (IF-2011)

## Product notes

WEEE/RoHS-compliant since:  
06/01/2005



<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

### Coil side

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	(refer to the diagram)
Nominal input current at $U_{IN}$	7 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	3390 $\Omega \pm 10\%$ (at 20 °C)

**Contact side**

Contact type	Single contact, 1-PDT
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Maximum inrush current	(on request)
Min. switching current	10 mA (at 12 V)
Limiting continuous current	6 A
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 <sup>7</sup> 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**

Connection method	Plug / solder connection
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**Certificates / Approvals**



Certification

cULus Recognized, GOST, VDE Gutachten mit  
 Fertigungsüberwachung, VDE Zeichengenehmigung, GL

Certifications applied for:

Certification Ex:

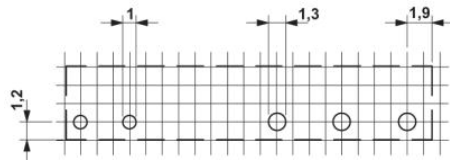
**Additional products**

Item	Designation	Description
<b>General</b>		
2980458	PLC-BSC- 24DC/21/SO46	6.2 mm PLC basic terminal blocks with screw connection and integrated filter against interference currents and voltages on the control side, 24 V DC input voltage (without relay or optocoupler)
2982799	PLC-BSC- 24UC/ 1/ACT	6.2 mm PLC actuator basic terminal block with load return line connection (BB), screw connection, 24 V AC/DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.
2982809	PLC-BSP- 24UC/ 1/ACT	6.2 mm PLC actuator basic terminal block with load return line connection (BB), spring-cage connection, 24 V AC/DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.
<b>Relay base</b>		
2900262	PLC-BPT- 24DC/ 1/SEN	6.2 mm PLC sensor basic terminal block with sensor supply voltage distribution (BB), Push-in connection, 24 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.
2900445	PLC-BPT- 24DC/21	6.2 mm PLC basic terminal blocks with Push-in connection, 24 V DC input voltage (without relay or optocoupler)
2900450	PLC-BPT- 24UC/ 1/ACT	6.2 mm PLC actuator basic terminal block with load return line connection (BB), Push-in connection, 24 V AC/DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.
2900446	PLC-BPT- 24UC/21	6.2 mm PLC basic terminal blocks with Push-in connection, 24 V AC/DC input voltage (without relay or optocoupler)
2900447	PLC-BPT- 48DC/21	6.2 mm PLC basic terminal blocks with Push-in connection, 48 V DC input voltage (without relay or optocoupler)

2966061	PLC-BSC- 24DC/ 1/SEN	6.2 mm PLC sensor basic terminal block with sensor supply voltage distribution (BB), screw connection, 24 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.
2966016	PLC-BSC- 24DC/21	6.2 mm PLC basic terminal blocks with screw connection, 24 V DC input voltage (without relay or optocoupler)
2966029	PLC-BSC- 24UC/21	6.2 mm PLC basic terminal blocks with screw connection, 24 V AC/DC input voltage (without relay or optocoupler)
2966090	PLC-BSC- 48DC/21	6.2 mm PLC basic terminal blocks with screw connection, 48 V DC input voltage (without relay or optocoupler)
2967206	PLC-BSP- 24DC/ 1/SEN	6.2 mm PLC sensor basic terminal block with sensor supply voltage distribution (BB), spring-cage connection, 24 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.
2967219	PLC-BSP- 24DC/21	6.2 mm PLC basic terminal blocks with spring-cage connection, 24 V DC input voltage (without relay or optocoupler)
2967222	PLC-BSP- 24UC/21	6.2 mm PLC basic terminal blocks with spring-cage connection, 24 V AC/DC input voltage (without relay or optocoupler)
2967329	PLC-BSP- 48DC/21	6.2 mm PLC basic terminal blocks with spring-cage connection, 48 V DC input voltage (without relay or optocoupler)

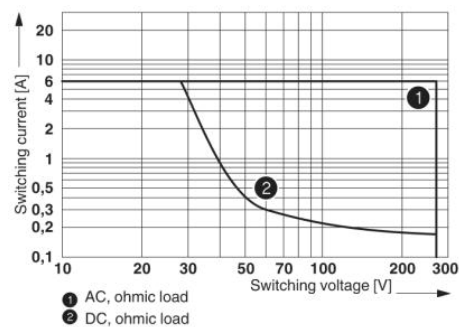
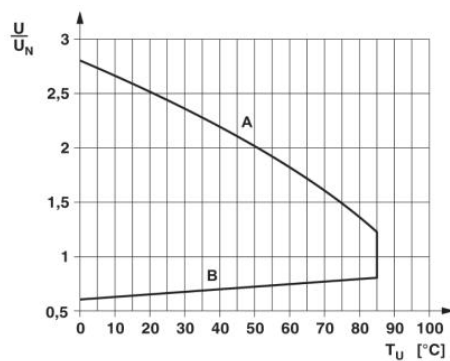
**Drawings**

Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

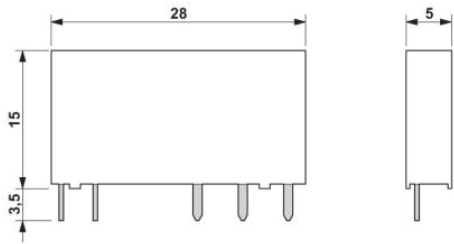
Diagram



Interrupting rating

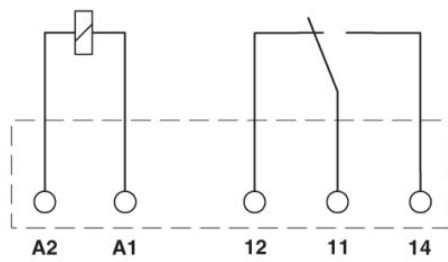
Dimensioned drawing

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Circuit diagram

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