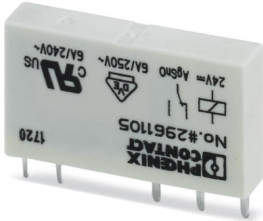


# Single relay - REL-MR- 24DC/21 - 2961105

<https://www.phoenixcontact.com/in/products/2961105>

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Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 24 V DC



## Your advantages

- Safe isolation according to DIN EN 50178 between coil and contact
- High degree of protection up to RT III depending on type (wash-proof)
- Power contacts up to 6 A

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## Commercial Data

Order Key	2961105
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Catalog Page	Page 284 (C-5-2019)
GTIN	4017918130893
Weight per Piece (including packing)	6.7 GRM
Weight per Piece (excluding packing)	5.0 GRM
Customs tariff number	85364900

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## Technical Data

### Environmental and real-life conditions

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	RT III

### Output data

#### Switching

Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Maximum inrush current	10 A (4 s)
Motor load according to UL 508	1/4 HP, 240 - 277 V AC (N/O contact)
	1/6 HP, 240 - 277 V AC (N/C contact)
Min. switching current	10 mA (at 12 V)
Contact material	AgSnO
Contact type	1 changeover contact
Maximum switching voltage	250 V AC/DC
Drive and function	monostable
Limiting continuous current	6 A
Minimum switching voltage	5 V (at 100 mA)
Type of switch contact	Single contact
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.1 A (at 220 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 230 V, AC15)

### Input data

#### Coil side

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

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## Notes

### Environmental Product Compliance

China RoHS

Environmentally friendly use period: unlimited = EFUP-e

No hazardous substances above threshold values

## Electrical properties

Test voltage relay winding/relay contact

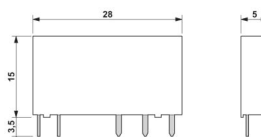
4 kV AC (50 Hz, 1 min.)

Maximum power dissipation for nominal condition

0.17 W

## Dimensions

Dimensional drawing



Height

28 mm

Width

5 mm

Depth

15 mm

## Material specifications

Color

white

## Mounting

Mounting position

any

Assembly instructions

In rows with zero spacing

## Connection data

Connection method

Solder connection

## Standards and regulations

Standards/regulations

IEC 60664

EN 50178

EN 61810-1

## IoT capabilities

Platform

## Product properties

Operating mode

100% operating factor

Mechanical service life

2x 10<sup>7</sup> cycles

### Insulation characteristics

Pollution degree

3

Overvoltage category

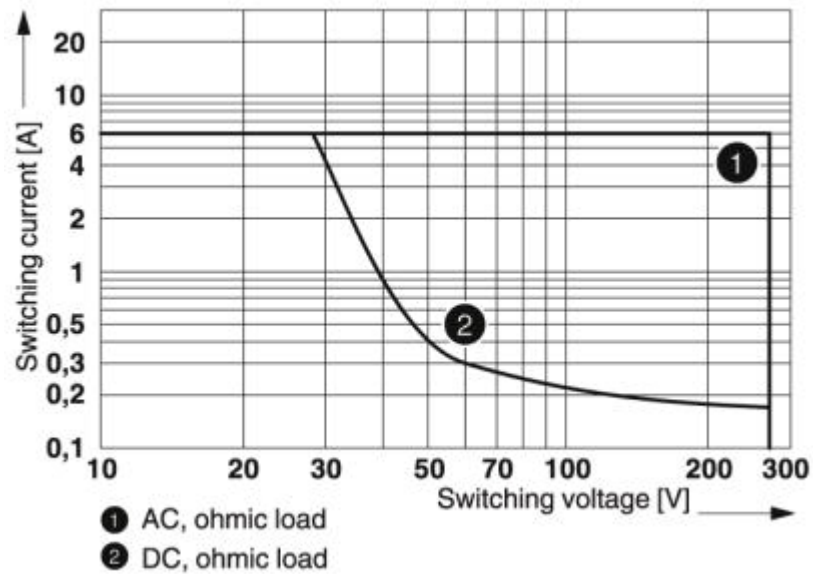
III

# Single relay - REL-MR- 24DC/21 - 2961105

<https://www.phoenixcontact.com/in/products/2961105>

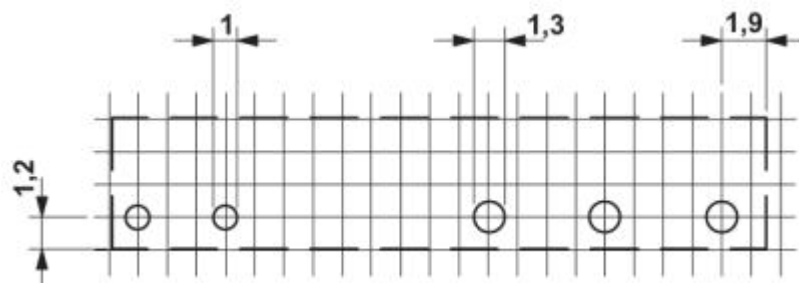
## Drawings

Diagram



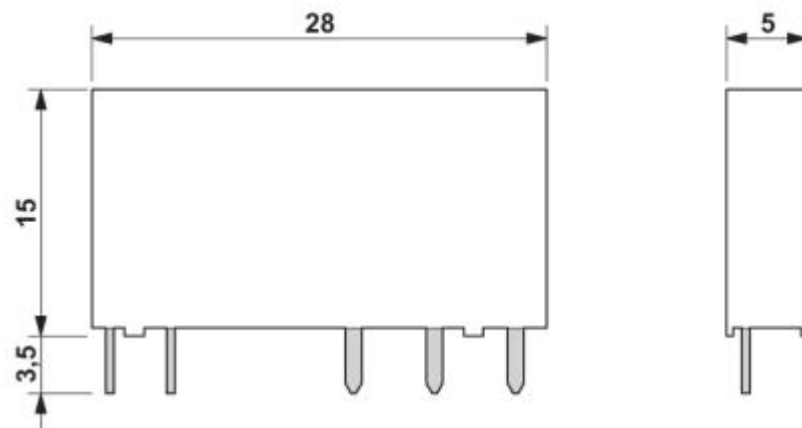
## Interrupting rating

Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

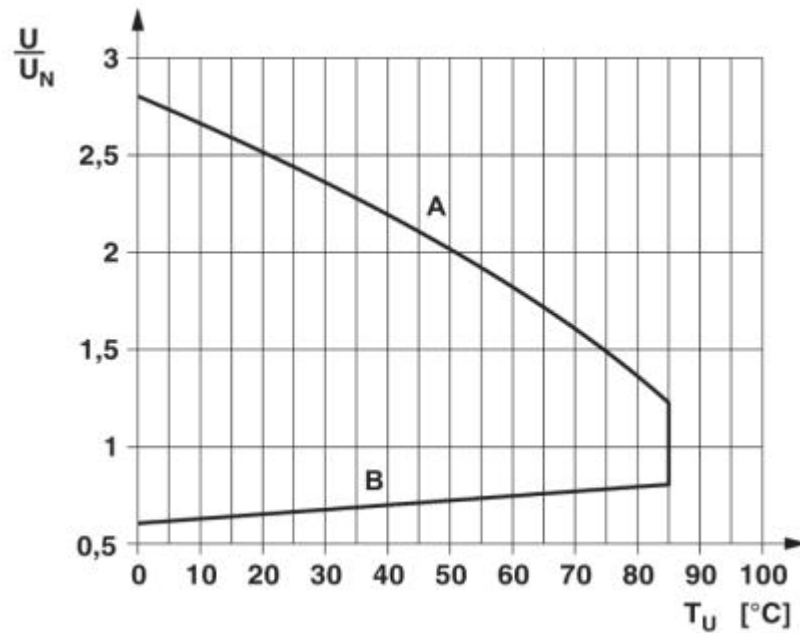
Dimensional drawing



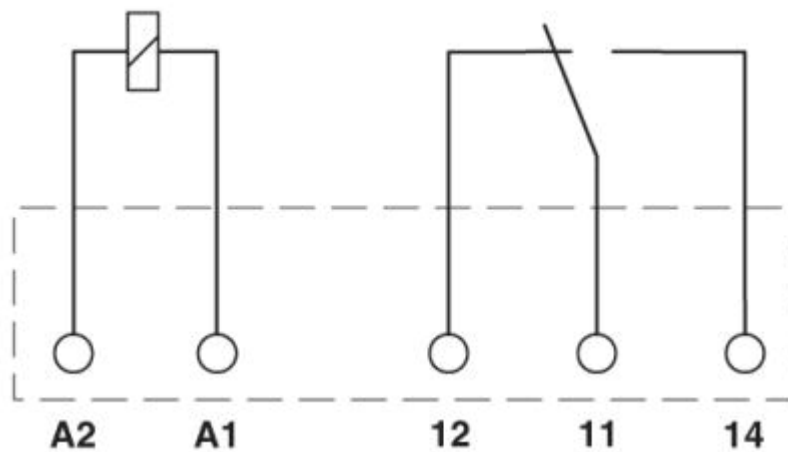
# Single relay - REL-MR- 24DC/21 - 2961105

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Diagram



Circuit diagram



# Single relay - REL-MR- 24DC/21 - 2961105




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## Approvals


PRS 


EAC 


EAC 


UL Recognized 

UL Recognized 

cUL Recognized 

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