

# REL-MR-BL-100AC/21-21/MS - Single relay



2908183

<https://www.phoenixcontact.com/us/products/2908183>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Plug-in miniature relay, with power contact, 2 changeover contacts, test button, mechanical switch position indicator, polarity: bipolar, input voltage: 100 V AC

## Commercial data

Item number	2908183
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK6195
GTIN	4055626279428
Weight per piece (including packing)	17.5 g
Weight per piece (excluding packing)	17.5 g
Customs tariff number	85364190
Country of origin	CN

## Technical data

### Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	5x 10 <sup>6</sup> cycles

### Insulation characteristics

Overvoltage category	III
Pollution degree	2

### Data management status

Date of last data management	05.09.2025
------------------------------	------------

### Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.8 W
Test voltage (Winding/contact)	5 kV AC (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2.5 kV AC (50 Hz, 1 min., changeover contact/changeover contact)
Rated insulation voltage	250 V AC

### Input data

#### Coil side

Nominal input voltage $U_N$	100 V AC
Input voltage range	80 V AC ... 135 V AC
Input voltage range in reference to $U_N$	0.8 ... 1.35 (see diagram)
Mains frequency	50/60 Hz
Drive and function	monostable
Typical input current at $U_N$	8 mA
Typical response time	3 ms ... 12 ms (depending on phase relation)
Typical release time range	2 ms ... 8 ms (depending on phase relation)
Status display	LED (yellow)

### Output data

#### Switching

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Limiting continuous current	8 A
Maximum inrush current	16 A (20 ms)
Min. switching current	10 mA (at 12 V)

# REL-MR-BL-100AC/21-21/MS - Single relay



2908183

<https://www.phoenixcontact.com/us/products/2908183>

Interrupting rating (ohmic load) max.	192 W (at 24 V DC)
	62 W (at 48 V DC)
	42 W (at 60 V DC)
	55 W (at 110 V DC)
	66 W (at 220 V DC)

## Connection data

Connection method	Solder connection
-------------------	-------------------

## Dimensions

Width	13 mm
Height	29 mm
Depth	25.5 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	RT II
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

## Standards and regulations

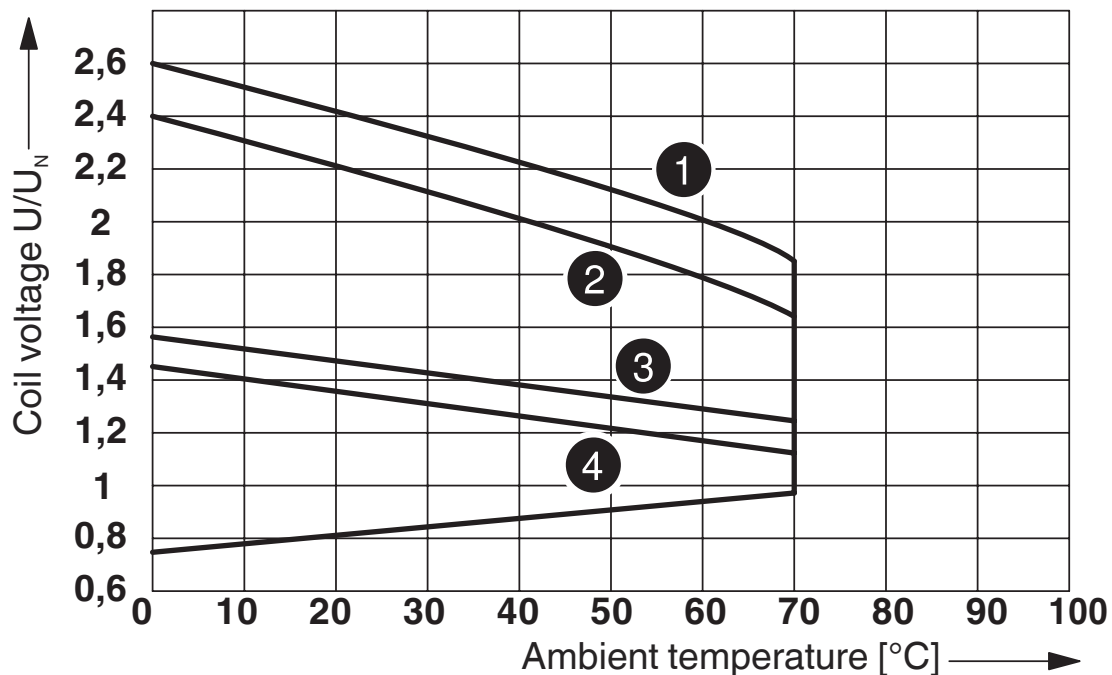
Standards/regulations	IEC 61810
	IEC 60664

## Mounting

Mounting position	any
-------------------	-----

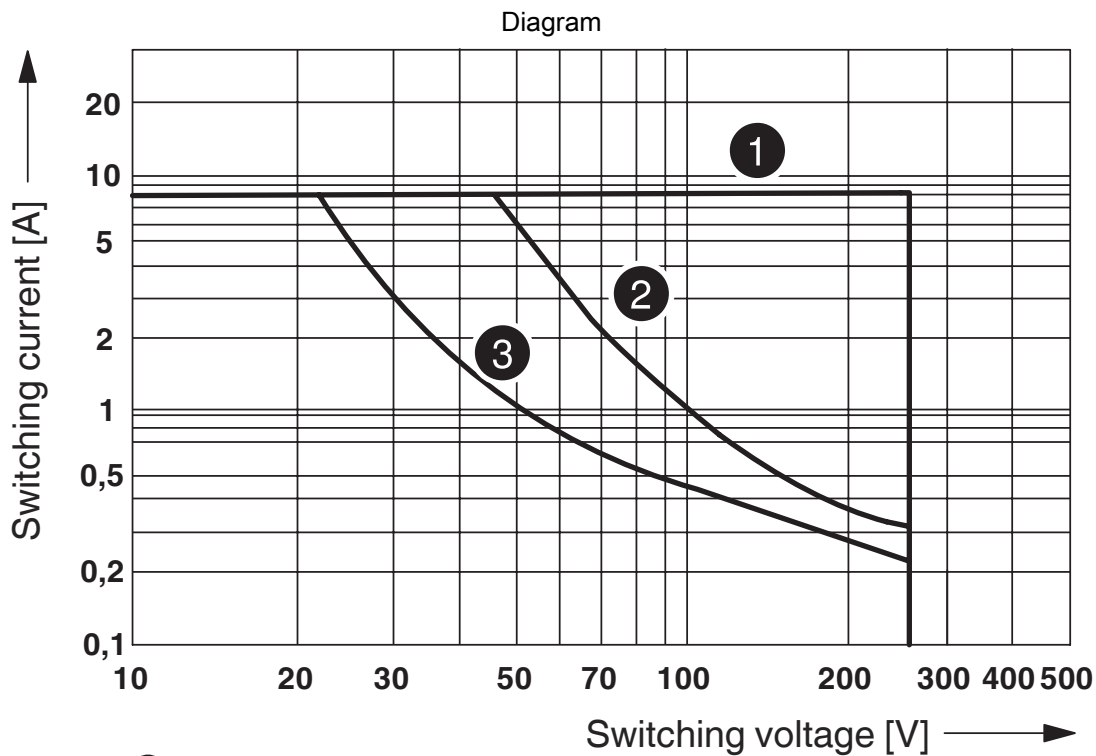
Drawings

Diagram



- ① DC coils, 0 A contact current
- ② DC coils, 8 A contact current
- ③ AC coils, 0 A contact current
- ④ AC coils, 8 A contact current

Operating voltage range



- ① AC, ohmic load
- ② DC, ohmic load, contacts in series
- ③ DC, ohmic load

Interrupting rating

Diagram



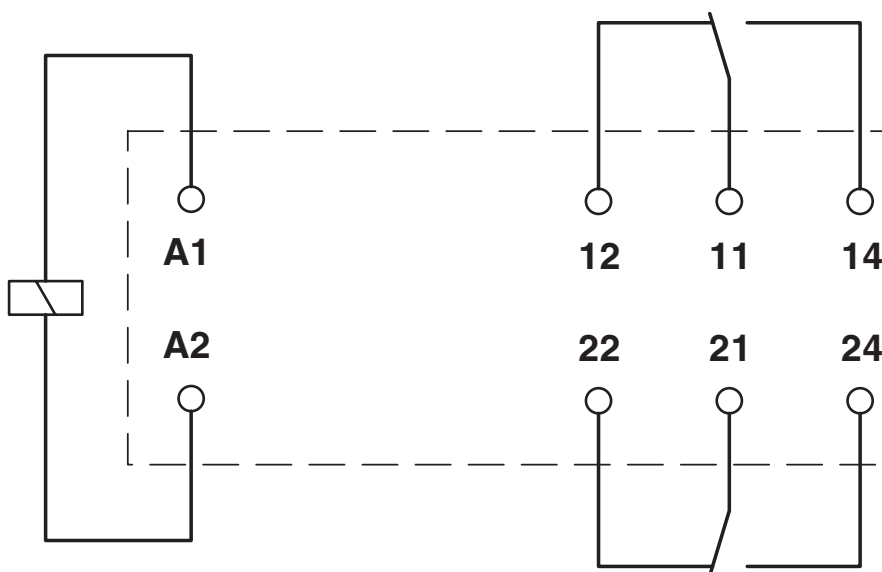
Electrical service life

Diagram



Service life reduction factor with various cos phi

Circuit diagram



# REL-MR-BL-100AC/21-21/MS - Single relay



2908183

<https://www.phoenixcontact.com/us/products/2908183>

## Classifications

### UNSPSC

UNSPSC 21.0	39122300
-------------	----------

# REL-MR-BL-100AC/21-21/MS - Single relay



2908183

<https://www.phoenixcontact.com/us/products/2908183>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)