

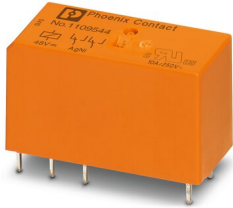
# REL-MR-BL- 48DC/21-21 - Single relay



1109544

<https://www.phoenixcontact.com/in/products/1109544>

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.



Pluggable miniature power relay in basic design, with power contact, 2 changeover contacts, input voltage 48 V DC

## Commercial Data

Item number	1109544
Packing unit	20 pc
Minimum order quantity	20 pc
Sales Key	CK6
Product Key	CK6195
GTIN	4063151021436
Weight per Piece (including packing)	15 g
Weight per Piece (excluding packing)	15 g
Customs tariff number	85364900
Country of origin	AT

1109544

<https://www.phoenixcontact.com/in/products/1109544>

## Technical Data

### Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	3x 10 <sup>7</sup> cycles

### Insulation characteristics

Insulation	Basic insulation
------------	------------------

### Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	3

### Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.4 W
Test voltage (Winding/contact)	5 kV AC (50 Hz, 1 min., winding/contact)
Rated insulation voltage	250 V AC
Rated surge voltage	4 kV

### Input data

#### Coil side

Nominal input voltage $U_N$	48 V DC
Input voltage range	33.6 V DC ... 108 V DC
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at $U_N$	8.7 mA
Typical response time	8 ms
Typical release time	6 ms
Coil voltage	48 V DC
Coil resistance	5.5 k $\Omega$ $\pm$ 10 %

### 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	5 V (at 10 mA)
Limiting continuous current	8 A
Maximum inrush current	12 A (20 ms)

# REL-MR-BL- 48DC/21-21 - Single relay



1109544

<https://www.phoenixcontact.com/in/products/1109544>

Min. switching current	10 mA (At 5 V)
Interrupting rating (ohmic load) max.	190 W (at 24 V DC)
	85 W (at 48 V DC)
	60 W (at 60 V DC)
	44 W (at 110 V DC)
	60 W (at 220 V DC)
	2000 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	1.5 A (at 230 V, AC15)

## Connection data

Connection method	Plug / solder connection
-------------------	--------------------------

## Dimensions

Dimensional drawing	
Width	12.7 mm
Height	29 mm
Depth	15.7 mm

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

Standards/regulations	IEC 60664
	EN 61810-1

## Mounting

Mounting type	Plug-in mounting
Mounting position	any

Phoenix Contact 2023 © - all rights reserved  
<https://www.phoenixcontact.com>

PHOENIX CONTACT (I) Pvt. Ltd.  
A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420  
[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)