

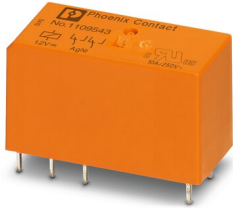
# REL-MR-BL- 12DC/21-21 - Single relay



1109543

<https://www.phoenixcontact.com/in/products/1109543>

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Pluggable miniature power relay in basic design, with power contact, 2 changeover contacts, input voltage 12 V DC

## Commercial Data

Item number	1109543
Packing unit	20 pc
Minimum order quantity	20 pc
Sales Key	CK6
Product Key	CK6195
GTIN	4063151018696
Weight per Piece (including packing)	14.61 g
Weight per Piece (excluding packing)	14 g
Customs tariff number	85364900
Country of origin	AT

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## 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
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### 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 $U_N$	12 V DC
Input voltage range	8.4 V DC ... 27 V DC
Typical input current at $U_N$	33.3 mA
Typical response time	8 ms
Typical release time	6 ms
Coil voltage	12 V DC
Coil resistance	360 $\Omega$ $\pm$ 10 %

### Output data

#### Switching

Contact type	2 changeover contacts
Type of switch contact	Single contact
Drive and function	monostable
Drive (polarity)	bipolar
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)

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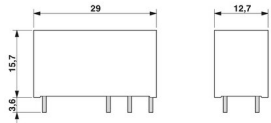
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Min. switching current	10 mA (At 5 V)
Interrupting rating (ohmic load) max.	190 W (at 24 V DC)
	85 W (at 48 V DC)
	60 W (at 60 V DC)
	44 W (at 110 V DC)
	60 W (at 220 V DC)
	2000 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	1.5 A (at 230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

## Connection data

Connection method	Plug / solder connection
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## 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

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