

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



2961312

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

## Your advantages

- Switching current of up to 16 A

## Commercial Data

Item number	2961312
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK6195
Catalog Page	Page 290 (C-5-2019)
GTIN	4017918187576
Weight per Piece (including packing)	16.123 g
Weight per Piece (excluding packing)	12.91 g
Customs tariff number	85364900
Country of origin	AT

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## Technical Data

### Product properties

Product type	Single relay
Set comprises	2967620 PLC-RSC- 24DC/21HC
	2967633 PLC-RSC- 24UC/21HC
	2967646 PLC-RSC- 48DC/21HC
	2912277 PLC-RSP- 24DC/21HC
	2912280 PLC-RSP- 24UC/21HC
	2912293 PLC-RSP- 48DC/21HC
	2900291 PLC-RPT- 24DC/21HC
	2900293 PLC-RPT- 24UC/21HC
	2900294 PLC-RPT- 48DC/21HC
	2834326 PR1-RSC3-LDP-24DC/21
	2834407 PR1-RSP3-LDP-24DC/21
	2903342 RIF-1-RPT-LDP-24DC/1X21
2903358 RIF-1-RSC-LDP-24DC/1X21	
Operating mode	100% operating factor
Mechanical service life	3x 10 <sup>7</sup> cycles

### Insulation characteristics

Overvoltage category	III
Pollution degree	3

### Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.41 W
Test voltage (Winding/contact)	5 kV AC (50 Hz, 1 min., winding/contact)

### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range	15.6 V DC ... 57.6 V DC
Typical input current at U <sub>N</sub>	17 mA
Typical response time	7 ms
Typical release time	3 ms
Coil resistance	1440 Ω ±10 % (at 20 °C)

### Output data

#### Switching

Contact type	1 changeover contact
Type of switch contact	Single contact
Drive and function	monostable

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Drive (polarity)	bipolar
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Limiting continuous current	16 A
Maximum inrush current	50 A (20 ms)
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	384 W (at 24 V DC) 58 W (at 48 V DC) 48 W (at 60 V DC) 50 W (at 110 V DC) 80 W (at 220 V DC) 4000 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13) 0.2 A (at 110 V, DC13) 0.2 A (at 250 V, DC13) 6 A (at 24 V, AC15) 6 A (at 120 V, AC15) 6 A (at 250 V, AC15)
Motor load according to UL 508	1/2 HP, 120 V AC (N/O contact) 1 HP, 240 V AC (N/O contact) 1/3 HP, 120 V AC (N/C contact) 3/4 HP, 240 V AC (N/C contact) 1/4 HP, 200 ... 250 V AC

## 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

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## Approvals

### Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

## Standards and regulations

Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1

## Mounting

Assembly instructions	Can be aligned without spacing ( $> 70\text{ °C} \geq 2.5\text{ mm}$ )
Mounting position	any

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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)