

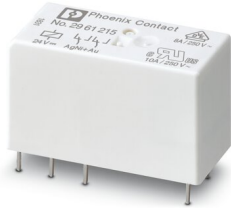
# REL-MR- 24DC/21-21AU - Single relay



2961215

<https://www.phoenixcontact.com/in/products/2961215>

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Plug-in miniature power relay, with multi-layer gold contact, 2 changeover contacts, input voltage 24 V DC

## Your advantages

- RT III-proof (wash-proof)

## Commercial Data

Item number	2961215
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK6195
Catalog Page	Page 290 (C-5-2019)
GTIN	4017918157999
Weight per Piece (including packing)	16.08 g
Weight per Piece (excluding packing)	14.95 g
Customs tariff number	85364900
Country of origin	AT

## Technical Data

### Product properties

Product type	Single relay
Set comprises	2967125 PLC-RSC- 24DC/21-21AU
	2967112 PLC-RSC- 24UC/21-21AU
	2967280 PLC-RSC- 48DC/21-21AU
	2912578 PLC-RSP- 24DC/21-21AU
	2912581 PLC-RSP- 24UC/21-21AU
	2912594 PLC-RSP- 48DC/21-21AU
	2900338 PLC-RPT- 24DC/21-21AU
	2900339 PLC-RPT- 24UC/21-21AU
	2900340 PLC-RPT- 48DC/21-21AU
	2834520 PR1-RSC3-LDP-24DC/2X21AU
	2834601 PR1-RSP3-LDP-24DC/2X21AU
	2903330 RIF-1-RPT-LDP-24DC/2X21AU
	2903346 RIF-1-RSC-LDP-24DC/2X21AU
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	0.41 W
Test voltage (Winding/contact)	5 kV AC (50 Hz, 1 min., winding/contact)
Test voltage (Contact/contact)	2.5 kV AC (50 Hz, 1 min., contact/contact)

### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range	15.6 V DC ... 59.52 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

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## Switching

Contact type	2 changeover contacts
Type of switch contact	Single contact
Drive and function	monostable
Drive (polarity)	bipolar
Contact material	AgNi, hard gold-plated
Maximum switching voltage	30 V AC 36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA (at 24 V)
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)

## Switching: when the gold layer is destroyed

Note	<b>the following values are applicable if a gold layer is destroyed</b>
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	15 A (300 ms)
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) 0.2 A (at 110 V, DC13) 0.2 A (at 250 V, DC13) 2 A (at 24 V, AC15) 2 A (at 120 V, AC15) 2 A (at 250 V, AC15)

## Connection data

Connection method	Plug / solder connection
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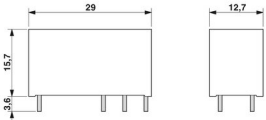
## Dimensions

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Dimensional drawing	
Width	12.7 mm
Height	29 mm
Depth	15.7 mm

## Environmental and real-life conditions

### Ambient conditions

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

## Approvals

### Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group EN 60068-2-60
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## Standards and regulations

Standards/regulations	IEC 60664 EN 50178 EN 61810-1
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## Mounting

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

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