

REL-MR-110DC/21-21AU - Single relay



2961228

<https://www.phoenixcontact.com/in/products/2961228>

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Plug-in miniature power relay, with multi-layer gold contact, 2 changeover contacts, input voltage 110 V DC

Your advantages

- RT III-proof (wash-proof)

Commercial Data

| | |
|--------------------------------------|---------------------|
| Item number | 2961228 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales Key | CK6 |
| Product Key | CK6195 |
| Catalog Page | Page 290 (C-5-2019) |
| GTIN | 4017918157982 |
| Weight per Piece (including packing) | 16.2 g |
| Weight per Piece (excluding packing) | 14.97 g |
| Customs tariff number | 85364900 |
| Country of origin | AT |

Technical Data

Product properties

| | |
|-------------------------|-----------------------------------|
| Product type | Single relay |
| Set comprises | 2967138 PLC-RSC-120UC/21-21AU |
| | 2967141 PLC-RSC-230UC/21-21AU |
| | 2912617 PLC-RSP-120UC/21-21AU |
| | 2912620 PLC-RSP-230UC/21-21AU |
| | 2900342 PLC-RPT-120UC/21-21AU |
| | 2900343 PLC-RPT-230UC/21-21AU |
| | 2968001 PLC-RSP-230UC/21-21AU/RWF |
| | 2900345 PLC-RPT-230UC/21-21AU/RWF |
| Operating mode | 100% operating factor |
| Mechanical service life | 3×10^7 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 | 0.45 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_N | 110 V DC |
| Input voltage range | 71.5 V DC ... 272.8 V DC |
| Typical input current at U_N | 4.1 mA |
| Typical response time | 7 ms |
| Typical release time | 3 ms |
| Coil resistance | $26600 \Omega \pm 15 \%$ (at 20 °C) |

Output data

Switching

| | |
|------------------------|-----------------------|
| Contact type | 2 changeover contacts |
| Type of switch contact | Single contact |
| Drive and function | monostable |

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| | |
|---------------------------------------|------------------------|
| 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 | the following values are applicable if a gold layer is destroyed |
| Contact material | AgNi |
| Maximum switching voltage | 250 V |
| Minimum switching voltage | 5 V (at 10 mA) |
| Limiting continuous current | 8 A |
| Maximum inrush current | 50 A (20 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 |
|-------------------|--------------------------|

Dimensions

| | |
|---------------------|---------|
| Dimensional drawing | |
| Width | 12.7 mm |
| Height | 29 mm |
| Depth | 15.7 mm |

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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 |

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