

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



2961545

<https://www.phoenixcontact.com/in/products/2961545>

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

Your advantages

- RT III-proof (wash-proof)
- Switching current of up to 16 A

Commercial Data

| | |
|--------------------------------------|---------------------|
| Item number | 2961545 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales Key | CK6 |
| Product Key | CK6195 |
| Catalog Page | Page 290 (C-5-2019) |
| GTIN | 4017918937942 |
| Weight per Piece (including packing) | 16.893 g |
| Weight per Piece (excluding packing) | 16.05 g |
| Customs tariff number | 85364900 |
| Country of origin | AT |

Technical Data

Product properties

| | |
|-------------------------|-----------------------------------|
| Product type | Single relay |
| Set comprises | 2834368 PR1-RSC3-LDP-24DC/21AU |
| | 2834449 PR1-RSP3-LDP-24DC/21AU |
| | 2903338 RIF-1-RPT-LDP-24DC/1X21AU |
| | 2903354 RIF-1-RSC-LDP-24DC/1X21AU |
| Operating mode | 100% operating factor |
| Mechanical service life | 3x 10 ⁷ 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 _N | 24 V DC |
| Input voltage range | 15.6 V DC ... 57.6 V DC |
| Typical input current at U _N | 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 |
| 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) |

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| | |
|---|--|
| Switching capacity | 2 A (at 24 V, AC15) |
| 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 AC/DC |
| Minimum switching voltage | 12 V (at 10 mA) |
| Limiting continuous current | 16 A |
| Maximum inrush current | 15 A (300 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) |
| | 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 |

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| 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