

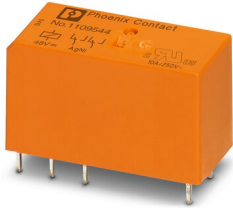
REL-MR-BL- 48DC/21-21 - Single relay



1109544

<https://www.phoenixcontact.com/in/products/1109544>

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Pluggable miniature power relay in basic design, with power contact, 2 changeover contacts, input voltage 48 V DC

Commercial Data

| | |
|--------------------------------------|---------------|
| Item number | 1109544 |
| Packing unit | 20 pc |
| Minimum order quantity | 20 pc |
| Sales Key | CK6 |
| Product Key | CK6195 |
| GTIN | 4063151021436 |
| Weight per Piece (including packing) | 15 g |
| Weight per Piece (excluding packing) | 15 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 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 | 0.4 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 | 48 V DC |
| Input voltage range | 33.6 V DC ... 108 V DC |
| Drive and function | monostable |
| Drive (polarity) | non-polarized |
| Typical input current at U_N | 8.7 mA |
| Typical response time | 8 ms |
| Typical release time | 6 ms |
| Coil voltage | 48 V DC |
| Coil resistance | 5.5 k Ω \pm 10 % |

Output data

Switching

| | |
|-----------------------------|-----------------------|
| Contact type | 2 changeover contacts |
| Type of switch contact | Single contact |
| 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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| | |
|---------------------------------------|------------------------|
| 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 |
|-------------------|--------------------------|

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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