

# REL-MR-120AC/21HC - Single relay



2961419

<https://www.phoenixcontact.com/in/products/2961419>

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Plug-in miniature power relay, with power contact for high continuous currents, 1 changeover contact, input voltage 120 V AC

## Your advantages

- Switching current of up to 16 A

## Commercial Data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2961419             |
| Packing unit                         | 10 pc               |
| Minimum order quantity               | 10 pc               |
| Sales Key                            | CK6                 |
| Product Key                          | CK6195              |
| Catalog Page                         | Page 290 (C-5-2019) |
| GTIN                                 | 4017918937829       |
| Weight per Piece (including packing) | 17.104 g            |
| Weight per Piece (excluding packing) | 14.9 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 | 1x 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 | 0.84 W                                   |
| Test voltage (Winding/contact)                  | 5 kV AC (50 Hz, 1 min., winding/contact) |

### Input data

#### Coil side

|                                |  |
|--------------------------------|--|
| Nominal input voltage $U_N$    | 120 V AC                                     |
| Input voltage range            | 93.6 V AC ... 186 V AC                       |
| Mains frequency                | 50/60 Hz                                     |
| Drive and function             | monostable                                   |
| Drive (polarity)               | non-polarized                                |
| Typical input current at $U_N$ | 7 mA (50 Hz)<br>5 mA (60 Hz)                 |
| Typical response time          | 3 ms ... 12 ms (depending on phase relation) |
| Typical release time range     | 2 ms ... 9 ms (depending on phase relation)  |
| Coil resistance                | 8100 $\Omega$ $\pm$ 15 % (at 20 °C)          |

### Output data

#### Switching

|                                       |  |
|---------------------------------------|--|
| Contact switching type                | 1 changeover contact   |
| Type of switch contact                | Single contact   |
| 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                | 25 A (20 ms)   |
| Min. switching current                | 10 mA (at 12 V)  |
| Interrupting rating (ohmic load) max. | 384 W (at 24 V DC)<br>58 W (at 48 V DC)<br>48 W (at 60 V DC)<br>50 W (at 110 V DC) |

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|                                |                                |
|--------------------------------|--------------------------------|
| Switching capacity             | 80 W (at 220 V DC)             |
|                                | 4000 VA (for 250 V AC)         |
|                                | 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)           |
| Motor load according to UL 508 | 6 A (at 250 V, AC15)           |
|                                | 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 |
|-------------------|--------------------------|

## 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 |

## Approvals

### Corrosive gas test

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

## Standards and regulations

|  |           |
|--|-----------|
|  | IEC 60664 |
|--|-----------|

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|                       |            |
|-----------------------|------------|
| Standards/regulations | 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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