

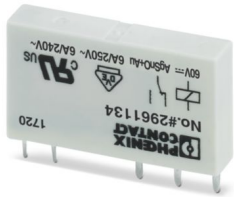
# REL-MR- 60DC/21AU - Single relay



2961134

<https://www.phoenixcontact.com/us/products/2961134>

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Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 60 V DC

## Your advantages

- Safe isolation between coil and contact side
- High degree of protection up to RT III depending on type (wash-proof)
- Power contacts up to 6 A

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2961134             |
| Packing unit                         | 10 pc               |
| Minimum order quantity               | 10 pc               |
| Sales key                            | C460                |
| Product key                          | CK6195              |
| Catalog page                         | Page 394 (C-5-2019) |
| GTIN                                 | 4017918130848       |
| Weight per piece (including packing) | 6.984 g             |
| Weight per piece (excluding packing) | 6.47 g              |
| Customs tariff number                | 85364190            |
| Country of origin                    | CZ                  |

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## Technical data

### Product properties

|                         |                           |
|-------------------------|---------------------------|
| Product type            | Single relay              |
| Operating mode          | 100% operating factor     |
| Mechanical service life | 2x 10 <sup>7</sup> cycles |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Pollution degree     | 3   |

### Electrical properties

|   |  |
|---|--|
| Maximum power dissipation for nominal condition | 0.18 W                                   |
| Test voltage (Winding/contact)                  | 4 kV AC (50 Hz, 1 min., winding/contact) |

### Input data

#### Coil side

|   |                          |
|---|--------------------------|
| Nominal input voltage U <sub>N</sub>    | 60 V DC                  |
| Input voltage range                     | 36 V DC ... 165 V DC     |
| Drive and function                      | monostable               |
| Drive (polarity)                        | non-polarized            |
| Typical input current at U <sub>N</sub> | 3 mA                     |
| Typical response time                   | 5 ms                     |
| Typical release time                    | 2.5 ms                   |
| Coil resistance                         | 20500 Ω ±15 % (at 20 °C) |

### Output data

#### Switching

|                                       |                         |
|---------------------------------------|-------------------------|
| Contact switching type                | 1 changeover contact    |
| Type of switch contact                | Single contact          |
| Contact material                      | AgSnO, hard gold-plated |
| Maximum switching voltage             | 30 V AC<br>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 | AgSnO  |

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|                                       |  |
|---------------------------------------|--|
| Maximum switching voltage             | 250 V AC   |
| Minimum switching voltage             | 5 V (at 100 mA)  |
| Limiting continuous current           | 6 A  |
| Min. switching current                | 10 mA (at 12 V)  |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC)<br>20 W (at 48 V DC)<br>18 W (at 60 V DC)<br>23 W (at 110 V DC)<br>40 W (at 220 V DC)<br>1500 VA (for 250□V□AC)             |
| Switching capacity                    | 2 A (at 24 V, DC13)<br>0.2 A (at 110 V, DC13)<br>0.1 A (at 220 V, DC13)<br>3 A (at 24 V, AC15)<br>3 A (at 120 V, AC15)<br>3 A (at 230 V, AC15) |

## Connection data

|                   |                          |
|-------------------|--------------------------|
| Connection method | Plug / solder connection |
|-------------------|--------------------------|

## Dimensions

|                     |       |
|---------------------|-------|
| Dimensional drawing |       |
| Width               | 5 mm  |
| Height              | 28 mm |
| Depth               | 15 mm |

## Material specifications

|       |                  |
|-------|------------------|
| Color | white (RAL 9010) |
|-------|------------------|

## 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<br>EN 60068-2-60 |
|----------------|---|

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## Standards and regulations

|                       |            |
|-----------------------|------------|
| Standards/regulations | IEC 60664  |
|                       | EN 50178   |
|                       | EN 61810-1 |

## Mounting

|                       |                           |
|-----------------------|---------------------------|
| Assembly instructions | in rows with zero spacing |
| Mounting position     | any                       |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27371601 |
| ECLASS-12.0 | 27371601 |
| ECLASS-13.0 | 27371601 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001437 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

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## Environmental product compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

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