

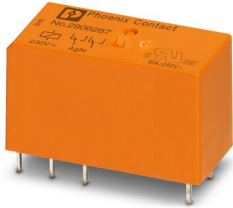
# REL-MR-BL-230AC/21-21 - Single relay



2906287

<https://www.phoenixcontact.com/in/products/2906287>

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Plug-in miniature power relay in basic design, with power contact, 2 changeover contacts, input voltage 230 V AC

## Commercial Data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2906287       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 20 pc         |
| Sales Key                            | CK6           |
| Product Key                          | CK6195        |
| GTIN                                 | 4055626066929 |
| Weight per Piece (including packing) | 13 g          |
| Weight per Piece (excluding packing) | 13 g          |
| Customs tariff number                | 85364900      |
| Country of origin                    | AT            |

## Technical Data

### Product properties

|                         |                           |
|-------------------------|---------------------------|
| Product type            | Single relay              |
| Operating mode          | 100% operating factor     |
| Mechanical service life | 5x 10 <sup>6</sup> 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 $U_N$    | 230 V AC                                     |
| Input voltage range            | 184 V AC ... 333.5 V AC                      |
| Mains frequency                | 50/60 Hz                                     |
| Typical input current at $U_N$ | 3 mA   |
| Typical response time          | 3 ms ... 12 ms (depending on phase relation) |
| Typical release time range     | 2 ms ... 9 ms (depending on phase relation)  |

### Output data

#### Switching

|                             |                       |
|-----------------------------|-----------------------|
| Contact type                | 2 changeover contacts |
| Type of switch contact      | Single contact        |
| Drive and function          | monostable            |
| Drive (polarity)            | bipolar               |
| 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)          |
| Min. switching current      | 10 mA (At 5 V)        |

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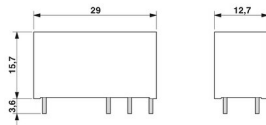
<https://www.phoenixcontact.com/in/products/2906287>

|                                       |                        |
|---------------------------------------|------------------------|
| 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 | 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 ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

## Standards and regulations

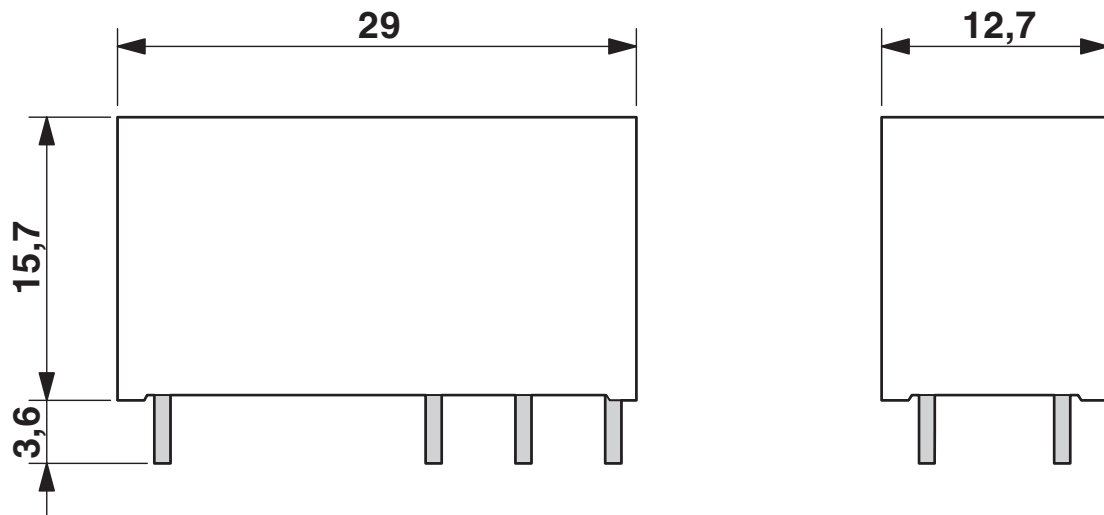
|                       |            |
|-----------------------|------------|
| Standards/regulations | IEC 60664  |
|                       | EN 61810-1 |

## Mounting

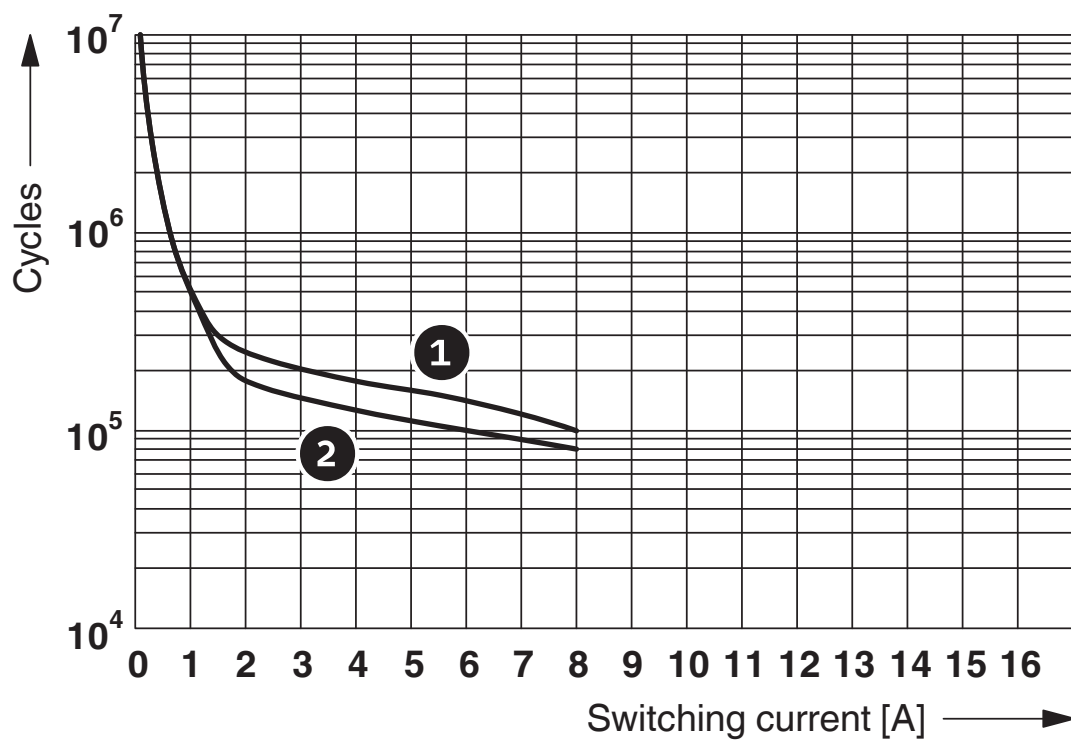
|                   |                  |
|-------------------|------------------|
| Mounting type     | Plug-in mounting |
| Mounting position | any              |

Drawings

Dimensional drawing

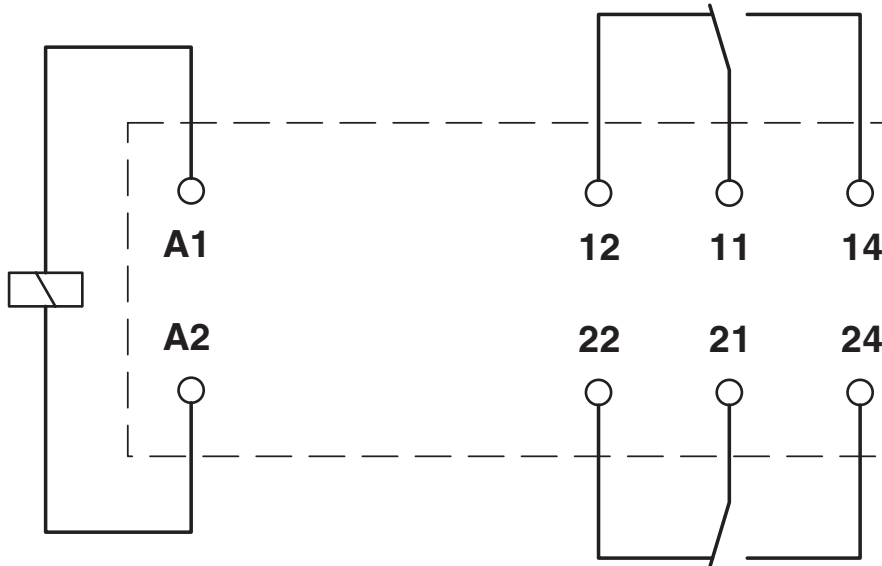


Diagram

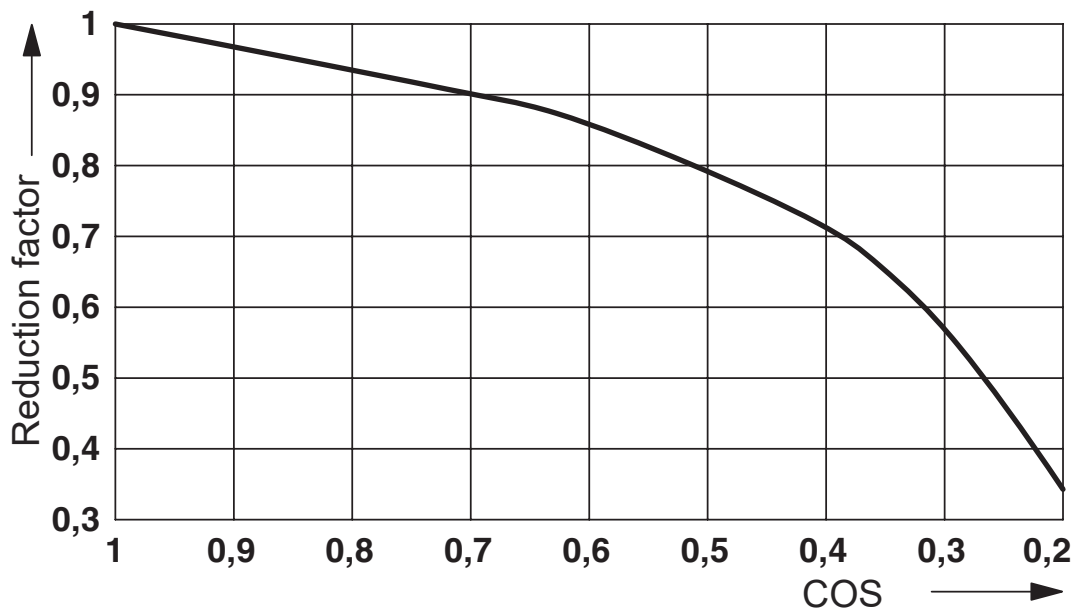


- ① 250 V AC, ohmic load (DC coils)
- ② 250 V AC, ohmic load (AC coils)

Circuit diagram

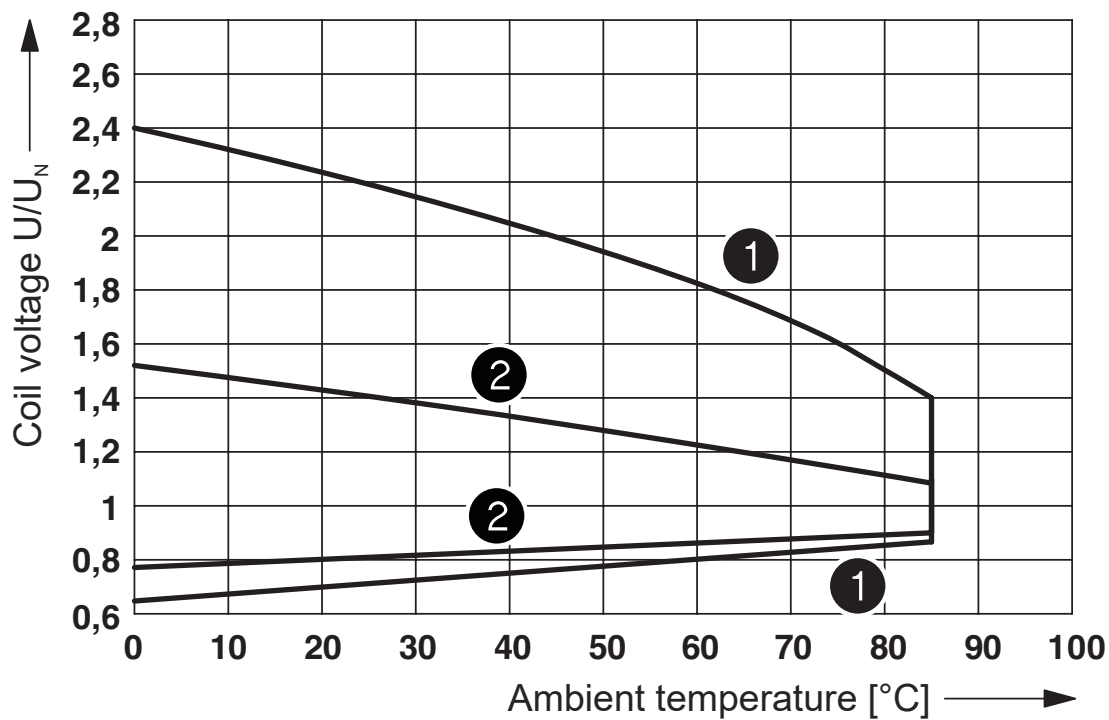


Diagram



Service life reduction factor with various cos phi

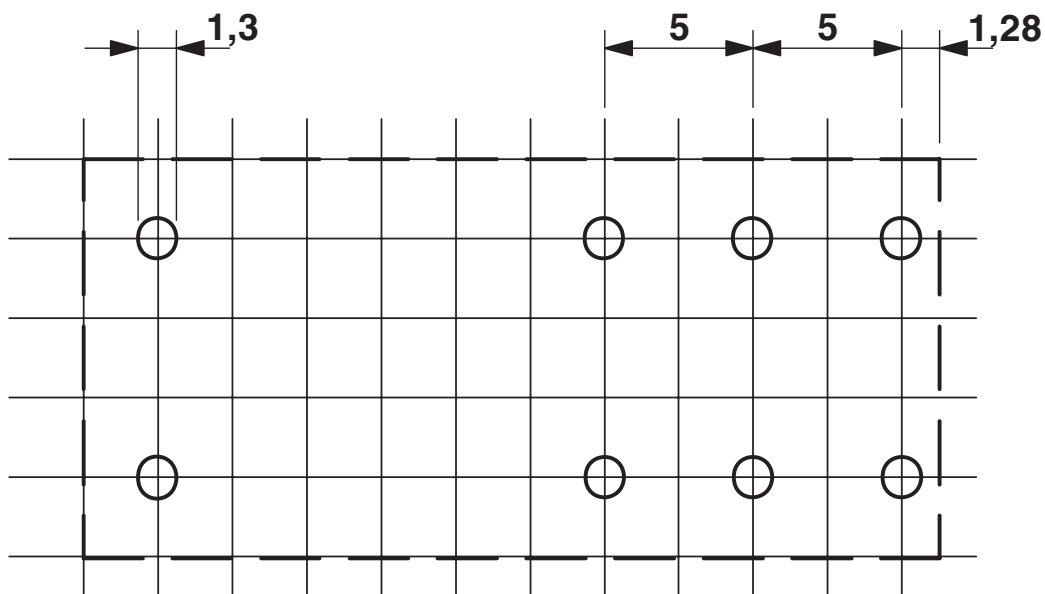
Diagram



- ① DC coils
- ② AC coils

Operating voltage range

Drilling plan/solder pad geometry



Basic pitch 2.5 mm

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## Approvals



**cUL Recognized**

Approval ID: FILE E 228652



**UL Recognized**

Approval ID: FILE E 228652



**EAC**

Approval ID: TR\_TS\_D\_00573\_c



**EAC**

Approval ID: RU\*C-DE.\*08.B.00010

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | 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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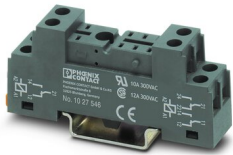
## Accessories

### ECOR-1-BSC2-RT/2X21 - Relay base

1027546

<https://www.phoenixcontact.com/in/products/1027546>

ECOR-1... relay base, for miniature power relays or miniature switching relays with 1 or 2 changeover contacts, bolt connection, for mounting on NS 35/7,5.



### ECOR-1-BSC3/2X21 - Relay base

2907518

<https://www.phoenixcontact.com/in/products/2907518>

ECOR-1... relay base, for miniature power relay or miniature switching relay with 1 or 2 changeover contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5



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