

## Single relay - REL-OR2/L-230AC/2X21 - 2903692

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Plug-in octal relays with power contacts, 2 changeover contacts, test button, mechanical switching position indicator, coil voltage: 230 V AC



### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 10 pc                                                                                                   |
| Minimum order quantity | 10 pc                                                                                                   |
| GTIN                   | <br>4 046356 759052 |
| GTIN                   | 4046356759052                                                                                           |

### Technical data

#### Dimensions

|        |         |
|--------|---------|
| Width  | 35 mm   |
| Height | 35 mm   |
| Depth  | 54.4 mm |

#### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -40 °C ... 55 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Degree of protection                    | RT I             |

#### Coil side

|                                         |                                              |
|-----------------------------------------|----------------------------------------------|
| Nominal input voltage $U_N$             | 230 V AC                                     |
| Mains frequency                         | 50/60 Hz                                     |
| Typical input current at $U_N$          | 13 mA                                        |
| Typical response time                   | 5 ms ... 15 ms (depending on phase relation) |
| Typical release time range              | 5 ms ... 20 ms (depending on phase relation) |
| Status display                          | Yellow LED                                   |
| Power dissipation for nominal condition | 2.99 W                                       |

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## Technical data

### Contact side

|                                       |                                |
|---------------------------------------|--------------------------------|
| Contact type                          | 2 changeover contacts          |
| Type of switch contact                | Single contact                 |
| Contact material                      | AgNi                           |
| Maximum switching voltage             | 250 V AC/DC                    |
| Minimum switching voltage             | 10 V (At 24 mA)                |
| Min. switching current                | 10 mA (at 24 V)                |
| Maximum inrush current                | 30 A (20 ms, N/O contacts)     |
| Limiting continuous current           | 10 A                           |
| Interrupting rating (ohmic load) max. | 240 W (at 24 V DC)             |
|                                       | 124 W (at 48 V DC)             |
|                                       | 108 W (at 60 V DC)             |
|                                       | 52 W (at 110 V DC)             |
|                                       | 48 W (at 220 V DC)             |
|                                       | 2500 VA (for 250 V AC)         |
| Switching capacity min.               | 0.24 W                         |
| Switching capacity                    | 2 A (at 24 V, DC13)            |
|                                       | 0.22 A (at 120 V, DC13)        |
|                                       | 0.11 A (at 250 V, DC13)        |
|                                       | 3 A (at 24 V, AC15)            |
|                                       | 3 A (at 120 V, AC15)           |
|                                       | 1.5 A (at 240 V, AC15)         |
| Motor load according to UL 508        | 1/2 HP, 240 V AC (N/O contact) |

### General

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| Test voltage            | 2.5 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)                     |
|                         | 2 kV <sub>rms</sub> (50 Hz, 1 min., contact/contact)                       |
|                         | 2 kV <sub>rms</sub> (50 Hz, 1 min., changeover contact/changeover contact) |
| Operating mode          | 100% operating factor                                                      |
| Mechanical service life | approx. 2x 10 <sup>7</sup> cycles                                          |
| Mounting position       | any                                                                        |

### Connection data

|                   |                 |
|-------------------|-----------------|
| Connection method | Plug connection |
|-------------------|-----------------|

### Standards and Regulations

|                                  |                  |
|----------------------------------|------------------|
| Connection in acc. with standard | CSA              |
| Standards/regulations            | IEC 60664        |
|                                  | IEC 61810        |
| Rated insulation voltage         | 250 V AC         |
| Rated surge voltage              | 4 kV             |
| Insulation                       | Basic insulation |
| Pollution degree                 | 3                |

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## Technical data

### Standards and Regulations

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
|----------------------|-----|

### Conformance/approvals

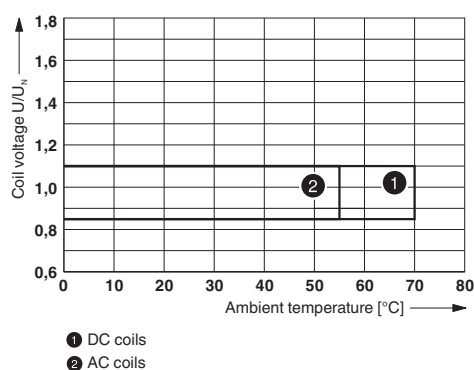
|                |                            |
|----------------|----------------------------|
| Designation    | Corrosive gas test         |
| Identification | ISA-S71.04. G3 Harsh Group |
|                | EN 60068-2-60              |

### Environmental Product Compliance

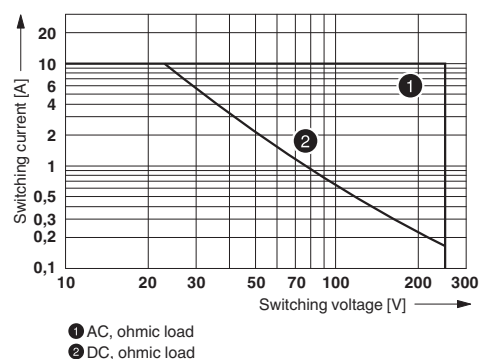
|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

Diagram

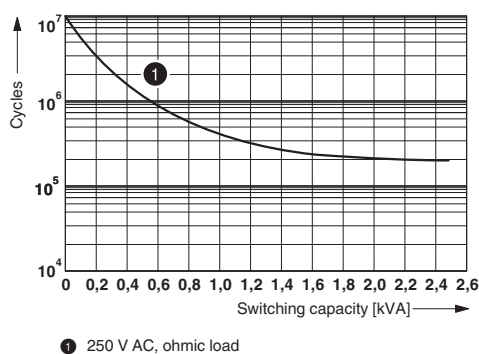


Diagram



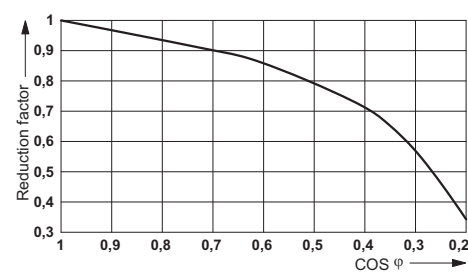
### Operating voltage range

Diagram



### Interrupting rating

Diagram

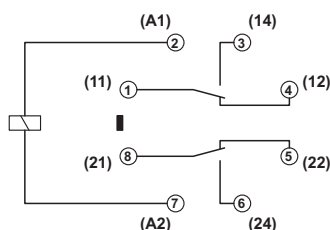


### Electrical service life

### Service life reduction factor

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Circuit diagram



### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27371601 |
| eCl@ss 11.0   | 27371601 |
| eCl@ss 4.0    | 27371100 |
| eCl@ss 4.1    | 27371100 |
| eCl@ss 5.0    | 27371600 |
| eCl@ss 5.1    | 27371600 |
| eCl@ss 6.0    | 27371600 |
| eCl@ss 7.0    | 27371601 |
| eCl@ss 9.0    | 27371601 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001437 |
| ETIM 3.0 | EC001437 |
| ETIM 4.0 | EC001437 |
| ETIM 6.0 | EC001437 |
| ETIM 7.0 | EC001437 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11     | 39121515 |
| UNSPSC 12.01  | 39121515 |
| UNSPSC 13.2   | 39122334 |
| UNSPSC 18.0   | 39122334 |
| UNSPSC 19.0   | 39122334 |
| UNSPSC 20.0   | 39122334 |
| UNSPSC 21.0   | 39122334 |

### Approvals

#### Approvals

## Single relay - REL-OR2/L-230AC/2X21 - 2903692

### Approvals

#### Approvals

CSA / UL Recognized / cUL Recognized / EAC / EAC / VDE Zeichengenehmigung / cULus Recognized

#### Ex Approvals

#### Approval details

|                        |                                                                                     |                                                                                                                                                                                                           |                         |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| CSA                    |    | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>                                                                   | 2554095                 |
| UL Recognized          |    | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>                                                     | FILE E 172140           |
| cUL Recognized         |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>                                                     | FILE E 172140           |
| EAC                    |  |                                                                                                                                                                                                           | TR_TS_D_00573_c         |
| EAC                    |  |                                                                                                                                                                                                           | RU*C-<br>DE.*08.B.00010 |
| VDE Zeichengenehmigung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40036588                |
| cULus Recognized       |  |                                                                                                                                                                                                           |                         |

### Accessories

#### Additional products

## Single relay - REL-OR2/L-230AC/2X21 - 2903692

### Accessories

Relay base - RIF-3-BPT/2X21 - 2900937



Relay base RIF-3..., for octal relays with 2 changeover contacts, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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Relay base - RIF-3-BSC/2X21 - 2900935



RIF-3... relay base, for octal relay with 2 changeover contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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