

## Single relay - REL-IR2/L-120AC/2X21 - 2903667

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Plug-in industrial relay with power contacts, 2 PDTs, test key, status LED, mechanical switch position indicator, input voltage: 120 V AC

The figure shows version REL-IR2/  
LDP- 24DC/2X21



### Key commercial data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Minimum order quantity               | 10 pc    |
| Weight per Piece (excluding packing) | 36.0 GRM |
| Custom tariff number                 | 85364900 |
| Country of origin                    | Poland   |

### Technical data

#### Dimensions

|        |         |
|--------|---------|
| Width  | 21.2 mm |
| Height | 35.6 mm |
| Depth  | 27.5 mm |

#### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -40 °C ... 55 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

#### Coil side

|   |  |
|---|--|
| Nominal input voltage $U_N$               | 120 V AC                                     |
| Input voltage range in reference to $U_N$ | see diagram                                  |
| 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) |

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## Technical data

### Coil side

|                |            |
|----------------|------------|
| Status display | Yellow LED |
|----------------|------------|

### Contact side

|  |                           |
|--|---------------------------|
| Contact type   | 2 PDT                     |
| Contact material                                       | AgNi                      |
| Maximum switching voltage                              | 250 V AC/DC               |
| Minimum switching voltage                              | 5 V (At 24 mA)            |
| Maximum inrush current                                 | 30 A (20 ms, N/O contact) |
| Min. switching current                                 | 5 mA (at 24 V)            |
| Limiting continuous current                            | 12 A                      |
| Interrupting rating (ohmic load) max.                  | 288 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)        |
|  | 3000 VA (for 250 V AC)    |
| Switching capacity min.                                | 0.12 W                    |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 2 A (at 24 V, DC13)       |
|  | 0.22 A (at 120 V, DC13)   |
|  | 0.11 A (at 250 V, DC13)   |
|  | 3 A (at 120 V, AC15)      |
|  | 1.5 A (at 240 V, AC15)    |

### General

|  |   |
|--|---|
| Test voltage relay winding/relay contact | 2.5 kV <sub>rms</sub> (50 Hz, 1 min.)                 |
| Test voltage relay contact/relay contact | 2.5 kV <sub>rms</sub> (50 Hz, 1 min.)                 |
| Test voltage PDT/PDT                     | 2.5 kV <sub>rms</sub> (50 Hz, 1 min.)                 |
| Operating mode                           | 100% operating factor                                 |
| Degree of protection                     | RT I  |
| Mechanical service life                  | Approx. $2 \times 10^7$ cycles                        |
| Designation                              | Air and creepage distances between the power circuits |
| Standards/regulations                    | IEC 61810   |
| Rated insulation voltage                 | 250 V AC  |
| Pollution degree                         | 3   |
| Surge voltage category                   | III   |
| Designation                              | Standards/regulations                                 |
| Standards/regulations                    | IEC 61810   |
| Mounting position                        | any   |

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## Technical data

### Connection data

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

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371104 |
| eCl@ss 4.1 | 27371104 |
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371001 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27371001 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000196 |
| ETIM 4.0 | EC000196 |
| ETIM 5.0 | EC000196 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11     | 39121515 |
| UNSPSC 12.01  | 39121515 |
| UNSPSC 13.2   | 39121515 |

## Approvals

### Approvals

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#### Approvals

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

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#### Ex Approvals

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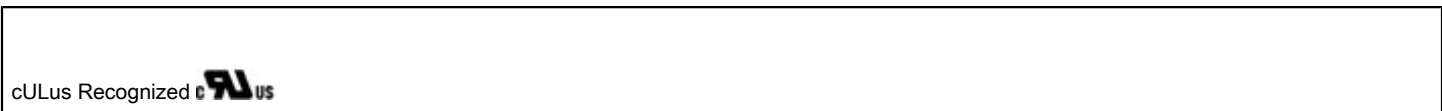
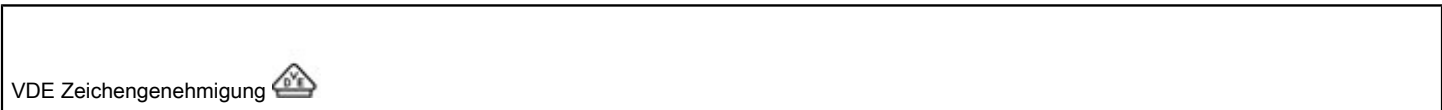
#### Approvals submitted

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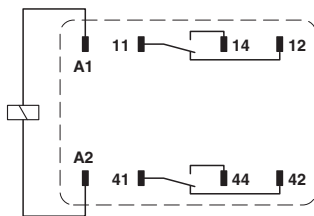
## Approvals

### Approval details

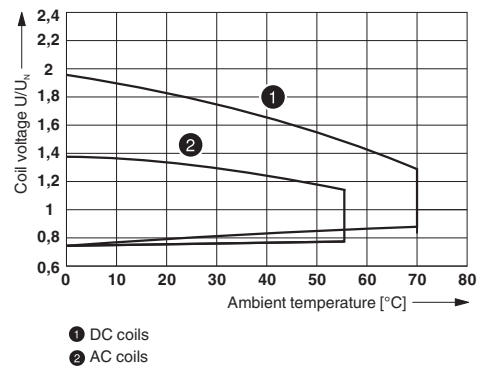


## Drawings

Circuit diagram



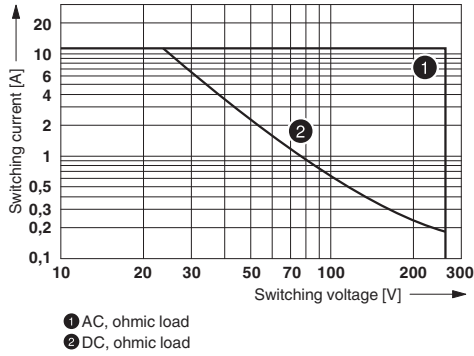
Diagram



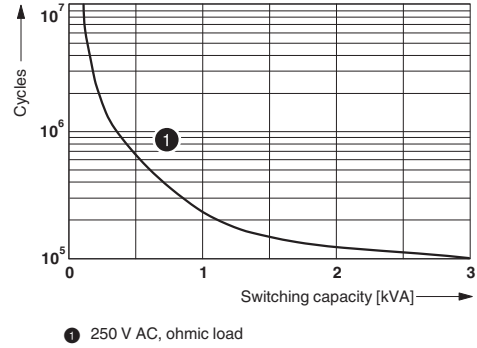
Operating voltage range

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Diagram



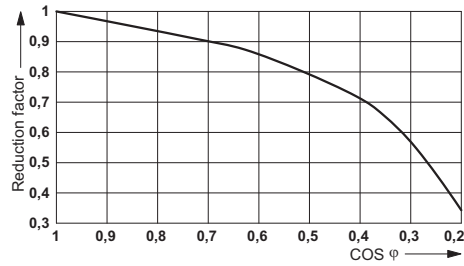
Diagram



Interrupting rating

Electrical service life

Diagram



Service life reduction factor