

## Single relay - REL-IR4/LDP- 12DC/4X21 - 2903676

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Plug-in industrial relay with power contacts and additional hard gold plating, 4 PDTs, test key, status LED, freewheeling diode, mechanical switch position indicator, polarity: A1+, A2-, coil voltage: 12 V DC

The figure shows version REL-IR4/  
LDP- 24DC/4X21



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 10 pc                                                                                                   |
| Minimum order quantity               | 10 pc                                                                                                   |
| GTIN                                 | <br>4 046356 758895 |
| Weight per Piece (excluding packing) | 35.31 g                                                                                                 |
| Custom tariff number                 | 85364190                                                                                                |
| 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 ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

#### Coil side

|                                           |               |
|-------------------------------------------|---------------|
| Nominal input voltage $U_N$               | 12 V DC       |
| Input voltage range in reference to $U_N$ | see diagram   |
| Typical input current at $U_N$            | 78 mA         |
| Typical response time                     | 13 ms         |
| Typical release time                      | 14 ms         |
| Protective circuit                        | Damping diode |

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## Technical data

### Coil side

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

### Contact side

|                                                        |                           |
|--------------------------------------------------------|---------------------------|
| Contact type                                           | 4 PDTs                    |
| Contact material                                       | AgNi                      |
| Maximum switching voltage                              | 250 V AC/DC               |
| Minimum switching voltage                              | 5 V (At 24 mA)            |
| Maximum inrush current                                 | 16 A (20 ms, N/O contact) |
| Min. switching current                                 | 5 mA (at 24 V)            |
| Limiting continuous current                            | 6 A                       |
| Interrupting rating (ohmic load) max.                  | 144 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)        |
|                                                        | 1500 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)   |
|                                                        | 1.5 A (at 24 V, AC15)     |
|                                                        | 1.5 A (at 120 V, AC15)    |
|                                                        | 1 A (at 240 V, AC15)      |

### General

|                                          |                                                                  |
|------------------------------------------|------------------------------------------------------------------|
| Test voltage relay winding/relay contact | 2.5 kV <sub>rms</sub> (50 Hz, 1 min.)                            |
| Test voltage PDT/PDT                     | 2 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 clearances and creepage distances between the power circuits |
| Standards/regulations                    | IEC 60664                                                        |
| Rated insulation voltage                 | 250 V AC                                                         |
| Pollution degree                         | 2                                                                |
| Surge voltage category                   | II                                                               |
| Designation                              | Standards/regulations                                            |
| Standards/regulations                    | IEC 61810                                                        |
| Mounting position                        | any                                                              |

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### 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 | 27371601 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000196 |
| ETIM 4.0 | EC000196 |
| ETIM 5.0 | EC001437 |

#### 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 / EAC / EAC / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details



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### Approvals

UL Recognized 

cUL Recognized 

VDE Zeichengenehmigung 

EAC

EAC

cULus Recognized 

### Accessories

#### Accessories

#### Relay socket

Relay socket - RIF-2-BPT/4X21 - 2900934

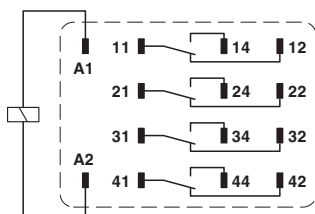


RIF-2... relay base, for industrial relay with 2 or 4 PDTs, push-in connection, plug-in option for input/suppressor modules, for mounting on NS 35/7,5

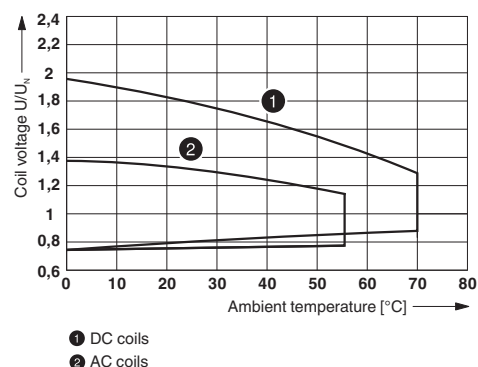
### Drawings

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Circuit diagram

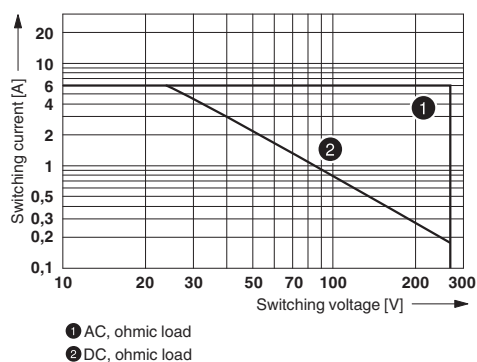


Diagram

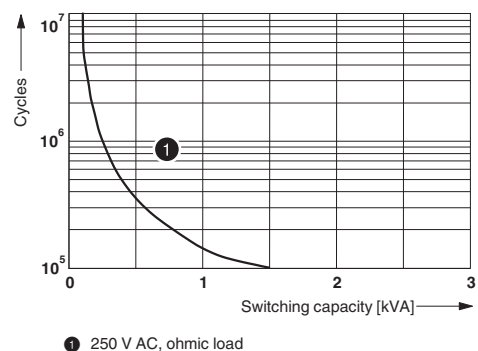


Operating voltage range

Diagram



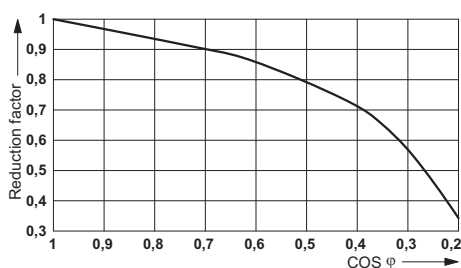
Diagram



Interrupting rating

Electrical service life

Diagram



Service life reduction factor