

# Single relay - REL-IR4/LDP-110DC/4X21AU - 2903673

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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: 110 V DC



## Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 10 pc   |
| Minimum order quantity               | 10 pc   |
| GTIN                                 | <br>4 046356 758864 |
| GTIN                                 | 4046356758864   |
| Weight per Piece (excluding packing) | 34.340 g  |
| Custom tariff number                 | 85364900  |
| Country of origin                    | Poland  |

## Technical data

### Dimensions

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

### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Degree of protection                    | RT I             |

### Coil side

|   |             |
|---|-------------|
| Nominal input voltage $U_N$               | 110 V DC    |
| Input voltage range in reference to $U_N$ | see diagram |
| Typical input current at $U_N$            | 8 mA        |
| Typical response time                     | 13 ms       |

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## Technical data

### Coil side

|   |               |
|---|---------------|
| Typical release time                    | 14 ms         |
| Protective circuit                      | Damping diode |
| Status display                          | Yellow LED    |
| Power dissipation for nominal condition | 0.88 W        |

### Contact side

|                                       |   |
|---------------------------------------|---|
| Contact type                          | 4 PDTs  |
| Type of switch contact                | Single contact  |
| Contact material                      | AgNi, hard gold-plated  |
| Note                                  | If the specified maximum values for multi-layer contact relays are exceeded, the gold plating is destroyed. The maximum values of the power contact relay are then valid. This can result in a shorter service life than with a pure power contact. |
| Maximum switching voltage             | 30 V AC   |
|                                       | 36 V DC   |
| Minimum switching voltage             | 2 V (At 24 mA)  |
| Min. switching current                | 2 mA (24 V DC)  |
| Maximum inrush current                | 50 mA   |
| Limiting continuous current           | 50 mA   |
| Interrupting rating (ohmic load) max. | 1.2 W (at 24 V DC)  |
| Switching capacity min.               | 48 mW   |
| Motor load according to UL 508        | 1/3 HP, 240 V AC  |

### Contact side (with destroyed gold layer)

|                                       |  |
|---------------------------------------|--|
| Contact material                      | AgNi   |
| Note                                  | the following values are applicable if a gold layer is destroyed |
| Maximum switching voltage             | 250 V AC/DC  |
| Minimum switching voltage             | 5 V (At 24 mA)   |
| Limiting continuous current           | 6 A  |
| Maximum inrush current                | 16 A (20 ms, N/O contact)  |
| Min. switching current                | 5 mA (at 24 V)   |
| 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                    | 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)   |