

## Single relay - REL-IR/LDP-125DC/4X21AU - 2834313

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Pluggable industrial relay with power contacts and additional hard gold plating, 4 PDTs, test button, status LED, free-wheeling diode, mechanical switch position indicator, polarity A1+, A2-, coil voltage: 125 V DC

The figure shows the version: REL-IR/LDP- 24DC/4X21 AU

### Product Features

- With detectable manual operation
- Integrated status LED
- Mechanical switch position indicator
- DC types with integrated freewheeling diode



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Minimum order quantity               | 10 pc    |
| Weight per Piece (excluding packing) | 38.0 g   |
| Custom tariff number                 | 85364900 |
| Country of origin                    | Japan    |

### Technical data

#### Dimensions

|        |         |
|--------|---------|
| Width  | 21.5 mm |
| Height | 28 mm   |
| Depth  | 36 mm   |

#### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -55 °C ... 70 °C |
| Ambient temperature (storage/transport) | -55 °C ... 70 °C |

#### Coil side

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## Technical data

### Coil side

|                                         |                                      |
|-----------------------------------------|--------------------------------------|
| Nominal input voltage $U_N$             | 125 V DC                             |
| Typical input current at $U_N$          | 7.2 mA                               |
| Typical response time                   | 13 ms                                |
| Typical release time                    | 14 ms                                |
| Coil resistance                         | 17380 $\Omega$ $\pm$ 15 % (at 20 °C) |
| Power dissipation for nominal condition | 0.9 W                                |

### Contact side

|                                       |                        |
|---------------------------------------|------------------------|
| Contact type                          | 4 PDTs                 |
| Contact material                      | AgNi, hard gold-plated |
| Maximum switching voltage             | 250 V AC/DC            |
| Minimum switching voltage             | 1 V                    |
| Min. switching current                | 1 mA                   |
| Maximum inrush current                | 12 A (15 ms)           |
| Limiting continuous current           | 5 A                    |
| Interrupting rating (ohmic load) max. | 1250 VA (for 250 V AC) |

### Connection data input side

|                   |                          |
|-------------------|--------------------------|
| Connection name   | Coil side                |
| Connection method | Plug / solder connection |

### Connection data output side

|                   |                          |
|-------------------|--------------------------|
| Connection name   | Contact side             |
| Connection method | Plug / solder connection |

## General

|                                          |                            |
|------------------------------------------|----------------------------|
| Test voltage relay winding/relay contact | 2 kV AC (50 Hz, 1 min.)    |
| Test voltage relay contact/relay contact | 2 kV AC (50 Hz, 1 min.)    |
| Operating mode                           | 100% operating factor      |
| Mechanical service life                  | 5 x 10 <sup>7</sup> cycles |
| Standards/regulations                    | DIN EN 61810-1             |
|                                          | VDE 0435-201               |
|                                          | EN 50178                   |
|                                          | IEC 62103                  |
| Degree of pollution                      | 2                          |
| Overvoltage category                     | II                         |
| Mounting position                        | any                        |
| Assembly instructions                    | On relay base PR2          |

## Standards and Regulations

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## Technical data

### Standards and Regulations

|                       |                |
|-----------------------|----------------|
| Standards/regulations | DIN EN 61810-1 |
|                       | VDE 0435-201   |
|                       | EN 50178       |
|                       | IEC 62103      |
| Degree of pollution   | 2              |
| Overvoltage category  | II             |

## 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 |
| eCl@ss 9.0 | 27371601 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000196 |
| 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

#### Approvals

UL Listed / VDE Gutachten mit Fertigungsüberwachung / cUL Listed / EAC / cULus Listed

## Single relay - REL-IR/LDP-125DC/4X21AU - 2834313

### Approvals

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Ex Approvals

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Approvals submitted

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### Approval details

UL Listed 

VDE Gutachten mit Fertigungsüberwachung 

cUL Listed 

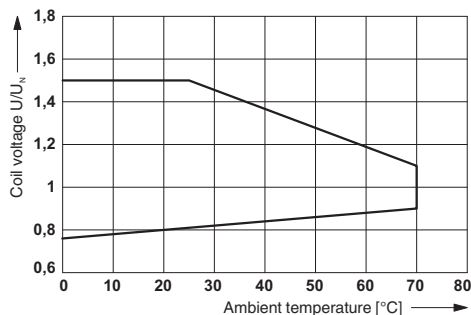
EAC

cULus Listed 

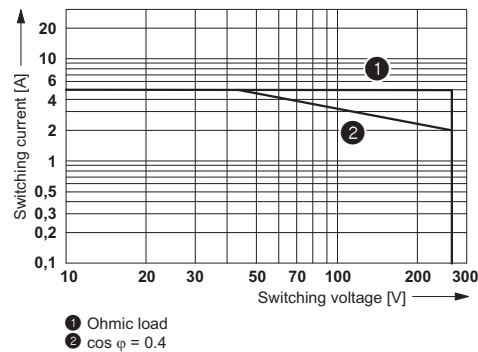
### Drawings

## Single relay - REL-IR/LDP-125DC/4X21AU - 2834313

Diagram



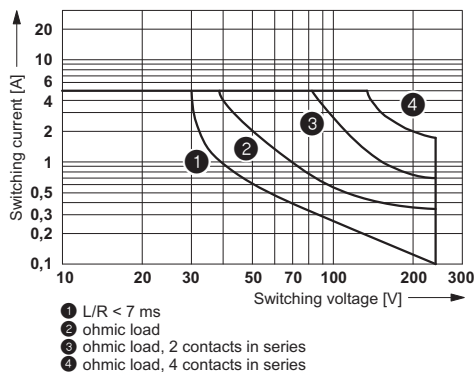
Diagram



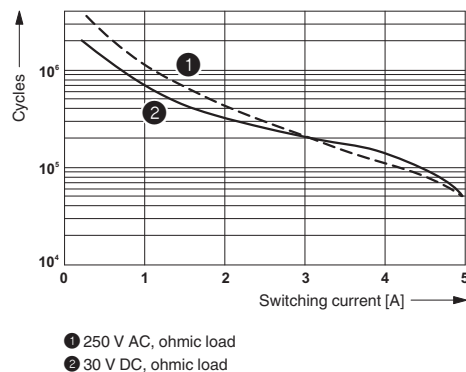
Operating voltage range

AC interrupting rating

Diagram



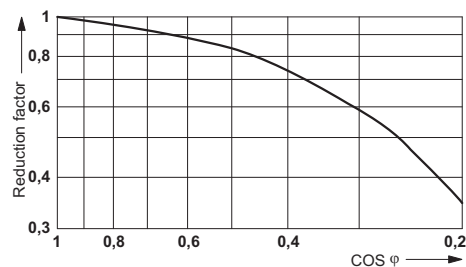
Diagram



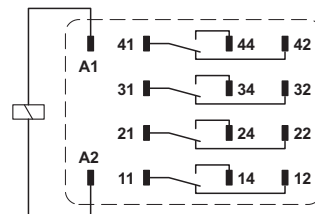
DC interrupting rating

Electrical service life

Diagram



Circuit diagram



Shown without LED and damping diode.

Service life reduction factor

