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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

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

Key Commercial Data

| | |
|------------------------|---------------------|
| Packing unit | 10 STK |
| Minimum order quantity | 10 STK |
| GTIN | 4 046356 758864 |

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 | 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 |
| 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 |
| Contact material | AgNi, hard gold-plated |

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Technical data

Contact side

| | |
|--|--|
| Maximum switching voltage | 30 V AC |
| | 36 V DC |
| Minimum switching voltage | 5 V (At 24 mA) |
| 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. | 0.12 W |
| 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 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 _{rms} (50 Hz, 1 min.) |
| Test voltage PDT/PDT | 2 kV _{rms} (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Degree of protection | RT I |
| Mechanical service life | Approx. 2 x 10 ⁷ cycles |
| Designation | Air clearances and creepage distances between the power circuits |
| Standards/regulations | IEC 60664 |
| Rated insulation voltage | 250 V AC |
| Degree of pollution | 2 |
| Overvoltage category | II |
| Designation | Standards/regulations |
| Standards/regulations | IEC 61810 |
| Mounting position | any |

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Technical data

Standards and Regulations

| | |
|----------------------------------|--|
| Connection in acc. with standard | CSA |
| Designation | Air clearances and creepage distances between the power circuits |
| Standards/regulations | IEC 60664 |
| Rated insulation voltage | 250 V AC |
| Insulation | Basic insulation |
| Degree of pollution | 2 |
| Overvoltage category | II |
| Designation | Standards/regulations |
| Standards/regulations | IEC 61810 |

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 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

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

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Approvals


Ex Approvals


Approvals submitted

Approval details


CSA 

UL Recognized 

cUL Recognized 

VDE Zeichengenehmigung 

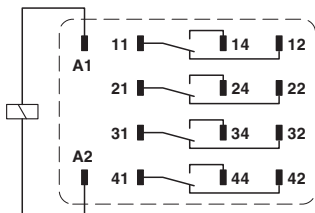
EAC

cULus Recognized 

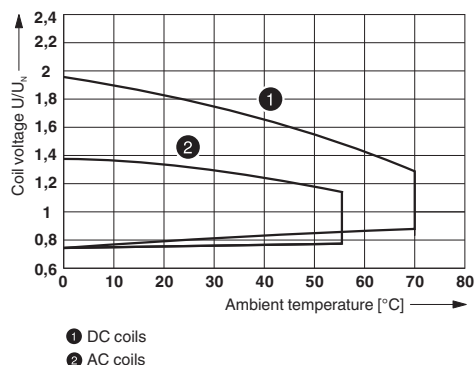
Drawings

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Circuit diagram

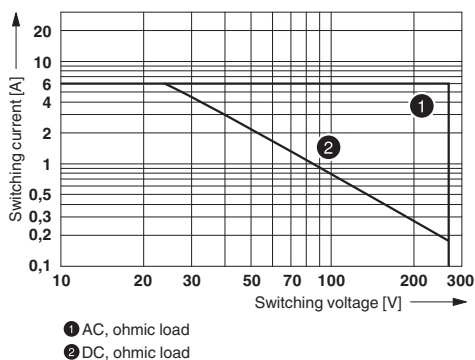


Diagram

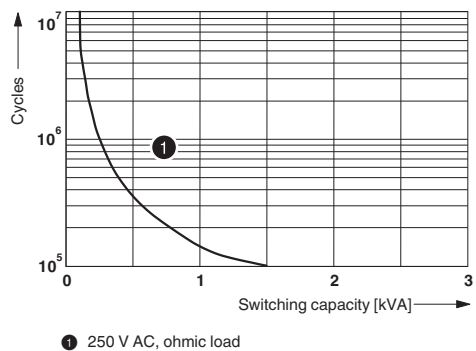


Operating voltage range

Diagram



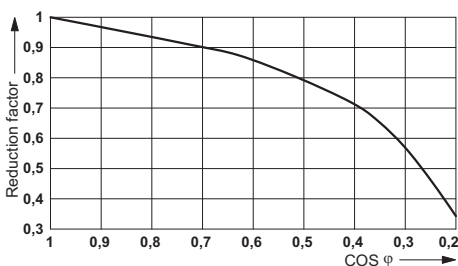
Diagram



Interrupting rating

Electrical service life

Diagram



Service life reduction factor

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