

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



2903673

<https://www.phoenixcontact.com/us/products/2903673>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Plug-in industrial relay with power contacts and additional hard gold plating, 4 changeover contacts, test button, status LED, freewheeling diode, mechanical switching position indicator, polarity: A1+, A2-, coil voltage: 110 V DC

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2903673 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C460 |
| Product key | DK694A |
| GTIN | 4046356758864 |
| Weight per piece (including packing) | 33.6 g |
| Weight per piece (excluding packing) | 34.34 g |
| Customs tariff number | 85364900 |
| Country of origin | PL |

Technical data

Product properties

| | |
|-------------------------|--------------------------------|
| Product type | Single relay |
| Operating mode | 100% operating factor |
| Mechanical service life | approx. 2×10^7 cycles |

Insulation characteristics

| | |
|----------------------|------------------|
| Insulation | Basic insulation |
| Overvoltage category | II |
| Pollution degree | 2 |

Data management status

| | |
|------------------------------|------------|
| Date of last data management | 01.04.2026 |
|------------------------------|------------|

Electrical properties

| | |
|--|--|
| Service life electrical | see diagram |
| Maximum power dissipation for nominal condition | 0.88 W |
| Test voltage (Winding/contact) | 2.5 kV _{rms} (50 Hz, 1 min., winding/contact) |
| Test voltage (Changeover contact/changeover contact) | 2 kV _{rms} (50 Hz, 1 min., changeover contact/changeover contact) |
| Rated insulation voltage | 250 V AC |
| Rated surge voltage | 2.5 kV |

Input data

Coil side

| | |
|--------------------------------|------------------------------|
| Nominal input voltage U_N | 110 V DC |
| Input voltage range | 88 V DC ... 198 V DC (20 °C) |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at U_N | 8 mA |
| Typical response time | 13 ms |
| Typical release time | 14 ms |
| Protective circuit | Freewheeling diode |
| Status display | LED (yellow) |

Output data

Switching

| | |
|------------------------|---|
| Contact switching type | 4 changeover contacts |
| 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. |

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



2903673

<https://www.phoenixcontact.com/us/products/2903673>

| | |
|---------------------------------------|--------------------|
| Maximum switching voltage | 30 V AC |
| | 36 V DC |
| Minimum switching voltage | 2 V (At 24 mA) |
| Limiting continuous current | 50 mA |
| Maximum inrush current | 50 mA |
| Min. switching current | 2 mA (24 V DC) |
| Interrupting rating (ohmic load) max. | 1.2 W (at 24 V DC) |
| Switching power min. | 48 mW |
| Motor load according to UL 508 | 1/3 HP, 240 V AC |

Switching: when the gold layer is destroyed

| | |
|---------------------------------------|--|
| Note | the following values are applicable if a gold layer is destroyed |
| Contact material | AgNi |
| 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 contacts) |
| 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) |

Connection data

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

Dimensions

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

Environmental and real-life conditions

Ambient conditions

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

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



2903673

<https://www.phoenixcontact.com/us/products/2903673>

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

Approvals

Corrosive gas test

| | |
|----------------|----------------------------|
| Identification | ISA-S71.04. G3 Harsh Group |
| | EN 60068-2-60 |

Standards and regulations

| | |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
| | IEC 61810 |

Mounting

| | |
|-------------------|-----|
| Mounting position | any |
|-------------------|-----|

Drawings

Diagram



- ① DC coils
- ② AC coils

Operating voltage range



- ① AC, ohmic load
- ② DC, ohmic load

Interrupting rating

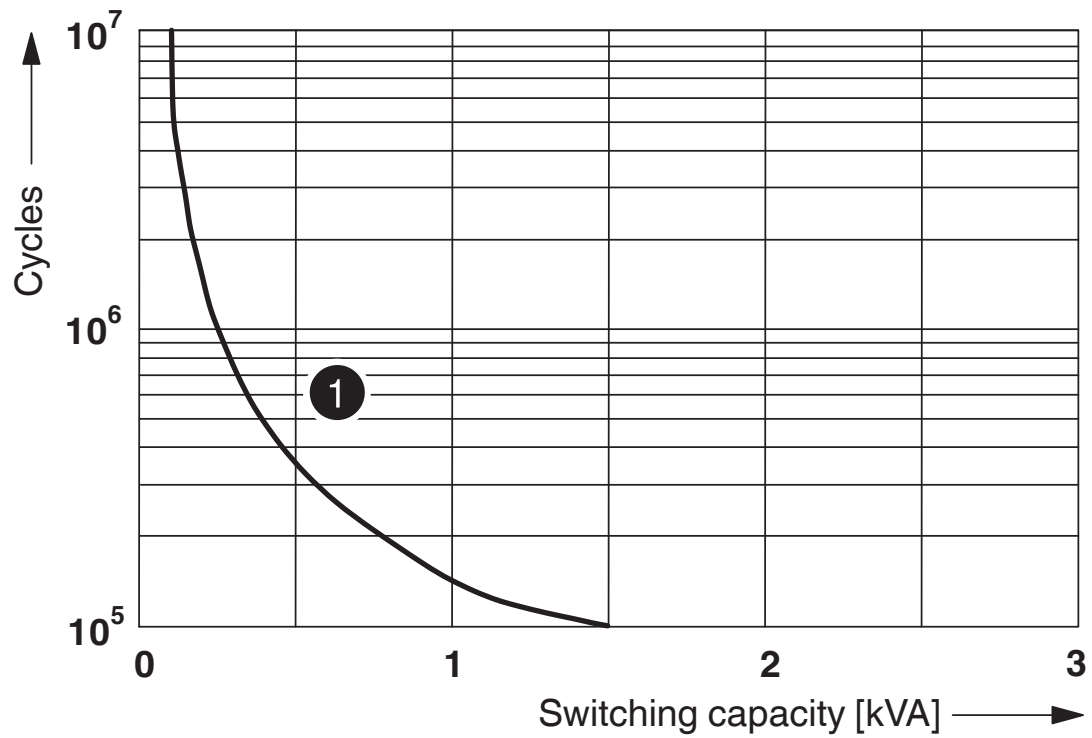
REL-IR4/LDP-110DC/4X21AU - Single relay



2903673

<https://www.phoenixcontact.com/us/products/2903673>

Diagram



① 250 V AC, Ohmic load

Electrical service life

Diagram



Service life reduction factor

Diagram



Permissible humidity for operation and storage.

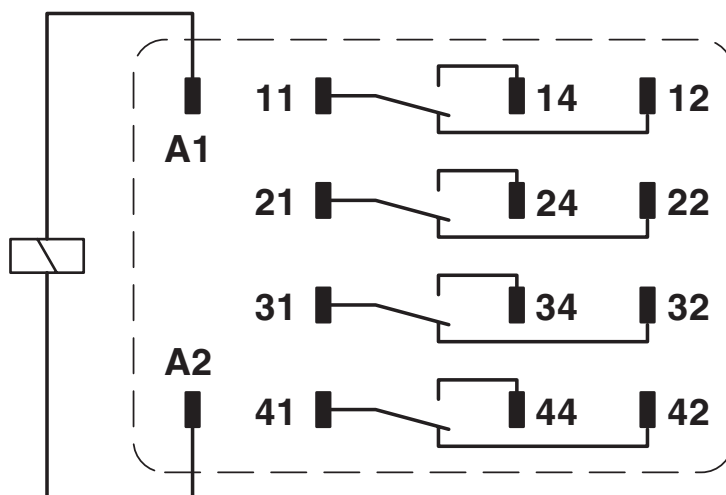
The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures $\leq 0^\circ\text{C}$ must be prevented

Area B: Condensation at ambient temperatures $> 0^\circ\text{C}$ must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature $\leq 25^\circ\text{C}$.

Circuit diagram



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



2903673

<https://www.phoenixcontact.com/us/products/2903673>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2903673>



CSA

Approval ID: 256725



EAC

Approval ID: RU*C-DE.*08.B.00010



VDE Zeichengenehmigung

Approval ID: 40040427



cULus Recognized

Approval ID: E172140

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



2903673

<https://www.phoenixcontact.com/us/products/2903673>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27371601 |
| ECLASS-15.0 | 27371601 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001437 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

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



2903673

<https://www.phoenixcontact.com/us/products/2903673>

Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com