# REL-IR/LDP- 12DC/4X21AU/MS - Single relay

1819074

https://www.phoenixcontact.com/gb/products/1819074

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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: 12 V DC

## Commercial data

| | |
|---|---|
| Item number | 1819074 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | DK694A |
| Product key | DK694A |
| GTIN | 4067923449282 |
| Weight per piece (including packing) | 31.84 g |
| Weight per piece (excluding packing) | 30 g |
| Customs tariff number | 85364190 |
| Country of origin | AT |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Single relay |
| Product family | RIFLINE complete |
| Operating mode | 100% operating factor |
| Mechanical service life | approx. $10^7$ cycles |

### Insulation characteristics

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

### Data management status

| | |
|---|---|
| Date of last data management | 28.10.2026 |

## Electrical properties

| | |
|---|---|
| Service life electrical | see diagram |
| Maximum power dissipation for nominal condition | 0.76 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 |

## Input data

### Coil side

| | |
|---|---|
| Nominal input voltage $U_N$ | 12 V DC |
| Input voltage range | 9 V DC ... 20.4 V DC |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at $U_N$ | 63 mA |
| Typical response time | 15 ms |
| Typical release time | 18 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 + Au |
| Maximum switching voltage | 30 V AC |
| | 36 V DC |
| Minimum switching voltage | 12 mV (1 mA) |

| | |
|---|---|
| Limiting continuous current | 4x 50 mA |
| Maximum inrush current | 50 mA |
| Min. switching current | 1 mA (20 mV) |
| Switching power min. | 0.02 mW |

Switching

| | |
|---|---|
| Contact switching type | 4 changeover contacts |
| Type of switch contact | Single contact |
| Contact material | AgNi |
| Note | the following values are applicable if a gold layer is destroyed |
| Maximum switching voltage | 250 V AC/DC |
| Limiting continuous current | 2x 12 A |
| Maximum inrush current | 12 A (20 ms, N/O contacts) |
| Interrupting rating (ohmic load) max. | 144 W (at 24 V DC) |
| | 130 W (at 48 V DC) |
| | 90 W (at 60 V DC) |
| | 66 W (at 110 V DC) |
| | 88 W (at 220 V DC) |
| | 1500 VA (for 250 V AC) |
| Switching capacity | 2 A (250 V, AC15) |
| | 4 A (24 V, DC13) |
| Motor load according to UL 508 | 1/2 HP, 240 V AC (N/O contact) |

## Connection data

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

## Dimensions

Item dimensions

| | |
|---|---|
| Width | 22.5 mm |
| Height | 28 mm |
| Depth | 35 mm |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | RT II |
| Ambient temperature (operation) | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Altitude | ≤ 2000 m |

## Standards and regulations

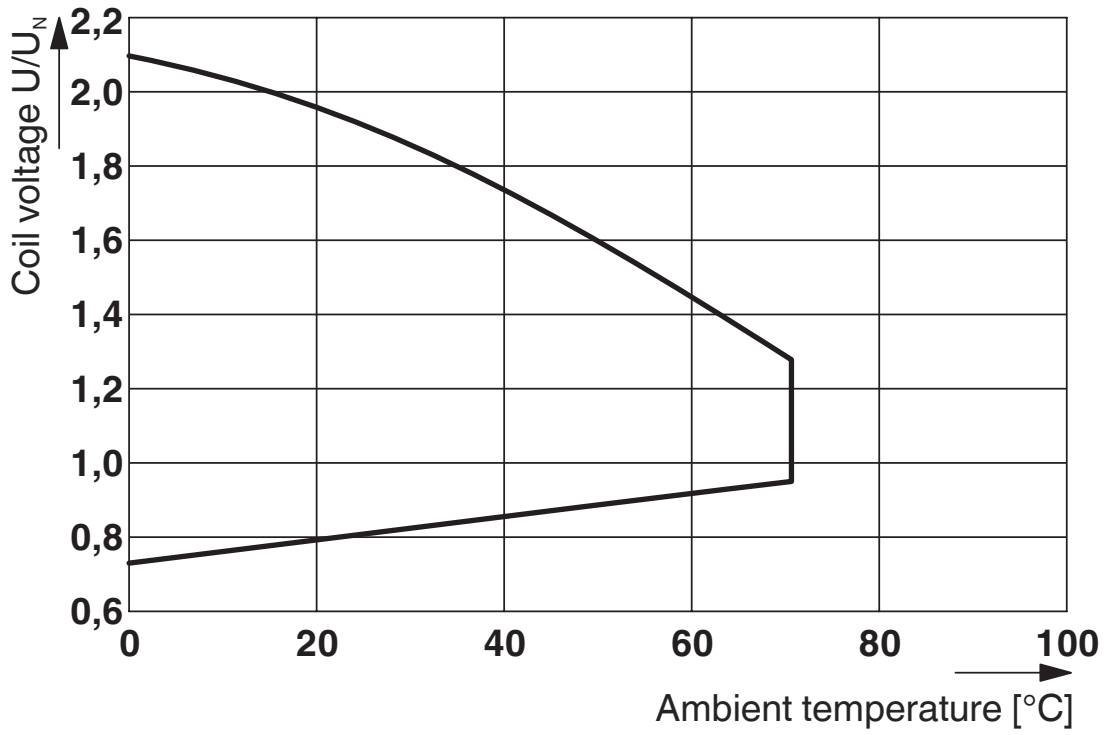
| | |
|---|---|
| Standards/regulations | EN 61810-1 |

## Mounting

| | |
|---|---|
| Mounting type | Plug-in mounting |
| Assembly note | in rows with zero spacing |
| Mounting position | any |

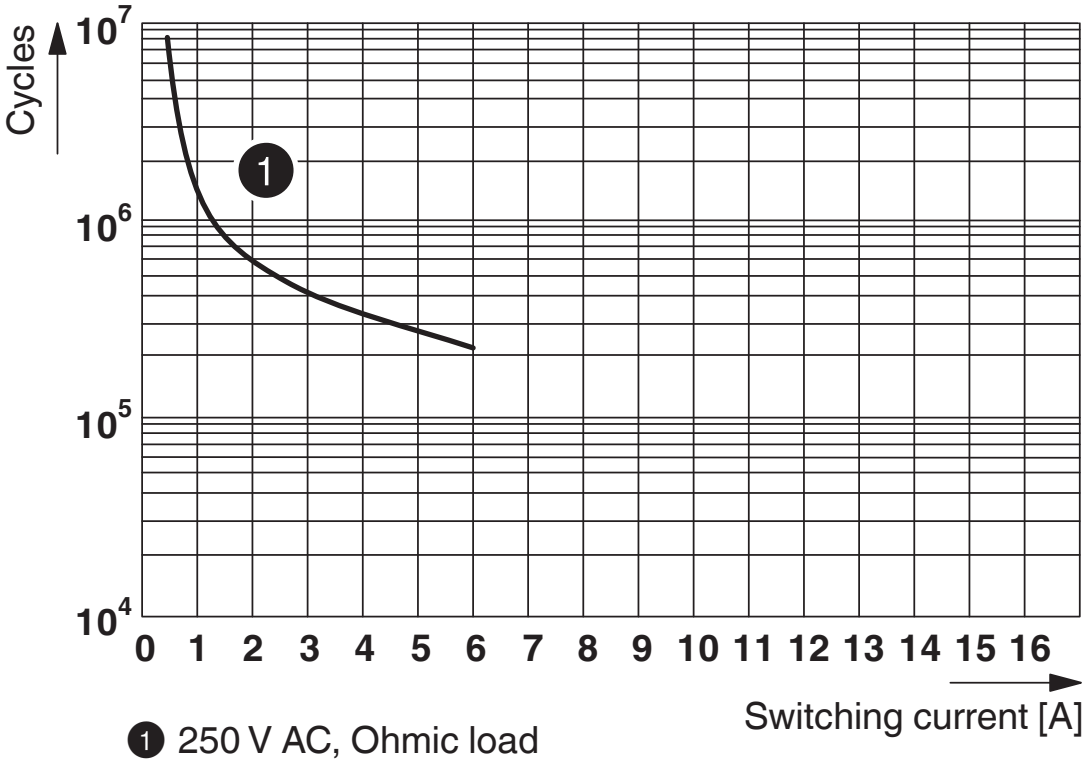
## Drawings

Diagram



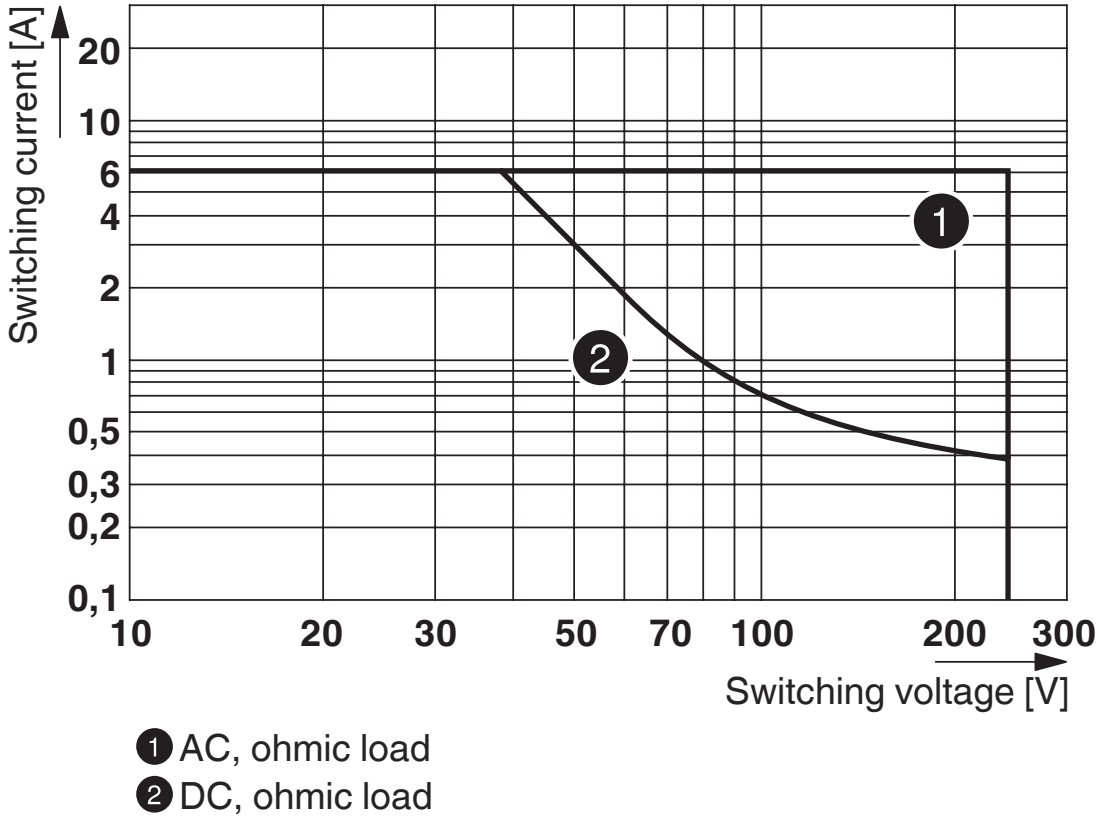

Operating voltage range

Diagram




Electrical service life

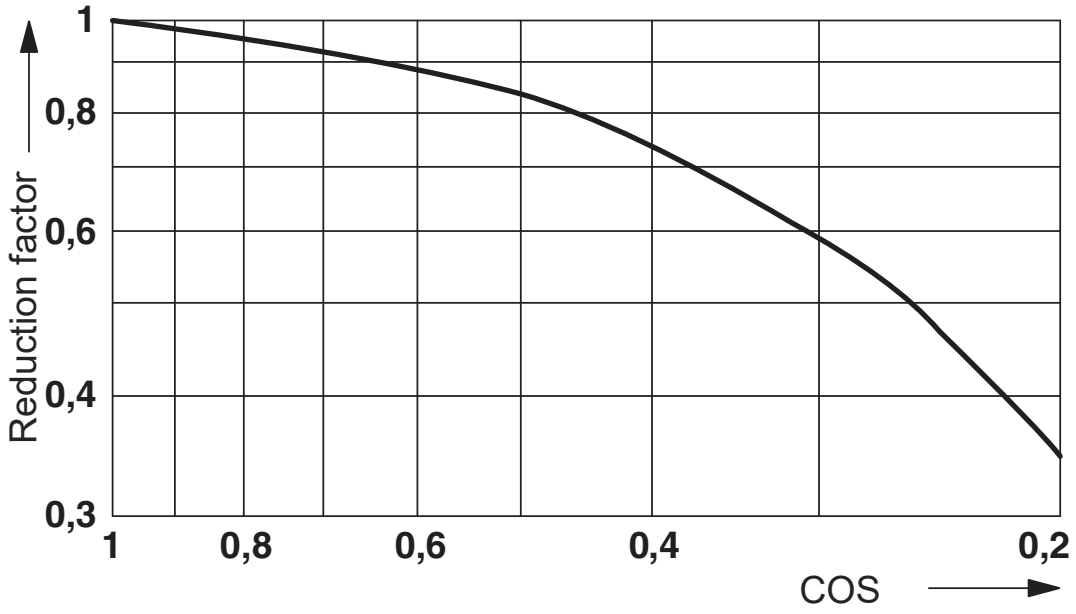
Diagram




1 AC, ohmic load
2 DC, ohmic load

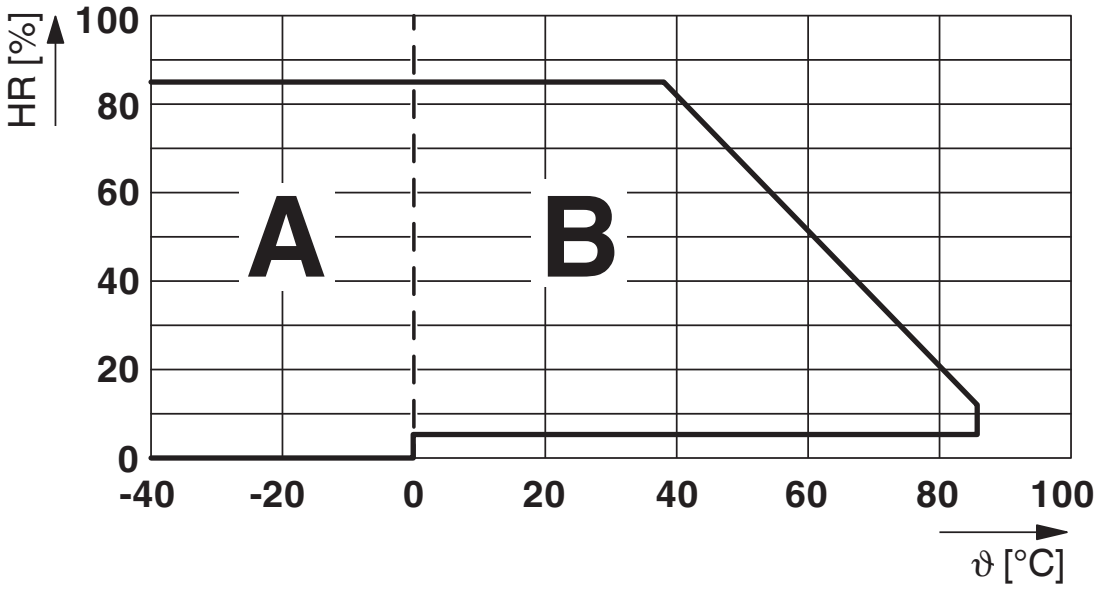
Interrupting rating

Diagram




Service life reduction factor

Diagram

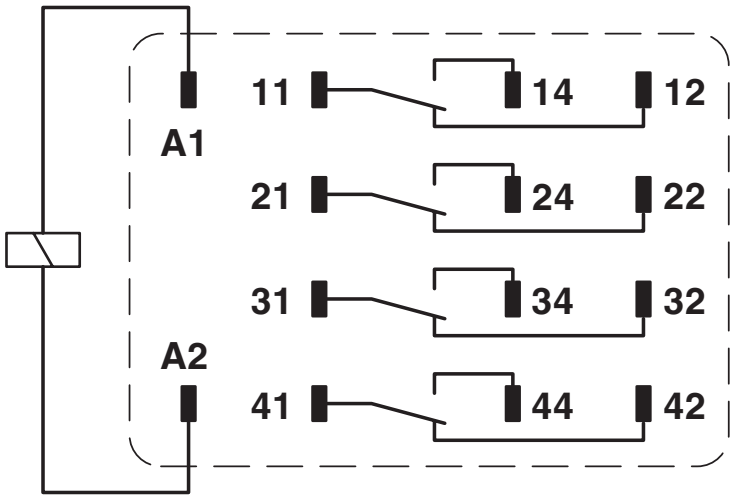



Permissible humidity for operation and storage.
The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures ≤ 0°C must be prevented
Area B: Condensation at ambient temperatures > 0°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 ≤ 25°C.

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1819074

**cULus Recognized**
Approval ID: E522914

**VDE Zeichengenehmigung**
Approval ID: 40061617

## Classifications

### ECLASS

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

### ETIM

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

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(c)-I |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

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