

REL-IR4/24DC/4X21 - Single relay



2907054

<https://www.phoenixcontact.com/us/products/2907054>

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, 4 changeover contacts, test key, mechanical switch position indicator, polarity: bipolar, input voltage: 24 V DC

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2907054 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C460 |
| Product key | DK6949 |
| GTIN | 4055626175782 |
| Weight per piece (including packing) | 35.2 g |
| Weight per piece (excluding packing) | 34 g |
| Customs tariff number | 85364190 |
| Country of origin | PL |

REL-IR4/24DC/4X21 - Single relay



2907054

<https://www.phoenixcontact.com/us/products/2907054>

Technical data

Product properties

| | |
|-------------------------|--|
| Product type | Single relay |
| Operating mode | 100% operating factor |
| Mechanical service life | 1x 10 ⁷ cycles, approximately |

Insulation characteristics

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

Data management status

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

Electrical properties

| | |
|--|--|
| Maximum power dissipation for nominal condition | 0.91 W |
| Test voltage (Winding/contact) | 2.5 kV _{rms} (50 Hz, 1 min., winding/contact) |
| Test voltage (Changeover contact/changeover contact) | 2.5 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 | 24 V DC |
| Input voltage range | 18.7 V DC ... 46.8 V DC (20 °C) |
| Drive and function | monostable |
| Drive (polarity) | non-polarized |
| Typical input current at U _N | 38 mA |
| Typical response time | 13 ms |
| Typical release time | 3 ms |

Output data

Switching

| | |
|-----------------------------|--|
| Contact switching type | 4 changeover contacts |
| Type of switch contact | Single contact |
| 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) 12 A (4 s, N/O contacts) |
| Min. switching current | 5 mA (at 24 V) |

REL-IR4/24DC/4X21 - Single relay



2907054

<https://www.phoenixcontact.com/us/products/2907054>

| | |
|---------------------------------------|------------------------|
| 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 power min. | 0.12 W |
| Switching capacity | 2 A (at 24 V, DC13) |
| | 1 A (at 230 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 |
| 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

REL-IR4/24DC/4X21 - Single relay

2907054

<https://www.phoenixcontact.com/us/products/2907054>



- ① AC, ohmic load
- ② DC, ohmic load

Interrupting rating

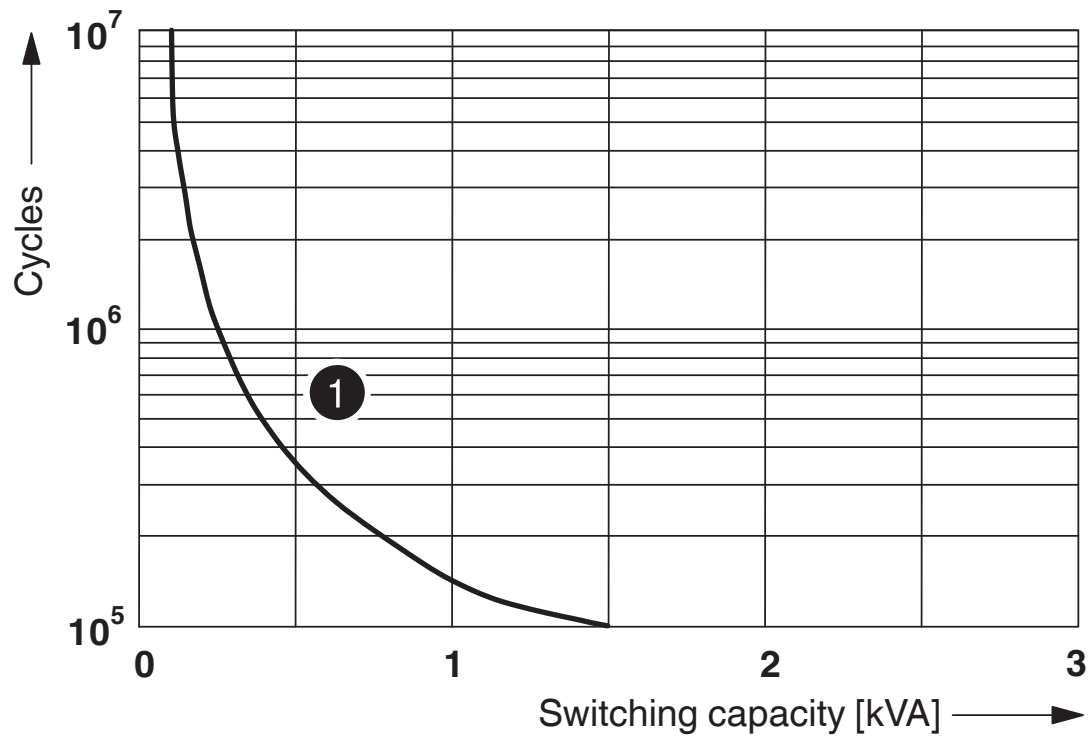
REL-IR4/24DC/4X21 - Single relay



2907054

<https://www.phoenixcontact.com/us/products/2907054>

Diagram



① 250 V AC, Ohmic load

Electrical service life

REL-IR4/24DC/4X21 - Single relay



2907054

<https://www.phoenixcontact.com/us/products/2907054>

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-IR4/24DC/4X21 - Single relay



2907054

<https://www.phoenixcontact.com/us/products/2907054>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2907054>



CSA

Approval ID: 256725



cULus Recognized

Approval ID: E172140

REL-IR4/24DC/4X21 - Single relay



2907054

<https://www.phoenixcontact.com/us/products/2907054>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

REL-IR4/24DC/4X21 - Single relay



2907054

<https://www.phoenixcontact.com/us/products/2907054>

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