

REL-IR/L-120AC/2X21/MS - Single relay



1819071

<https://www.phoenixcontact.com/au/products/1819071>

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Plug-in industrial relay with power contacts, 2 changeover contacts, test button, status LED, mechanical switching position indicator, input voltage: 120 V AC

Commercial data

| | |
|------------------------|---|
| Item number | 1819071 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | DK6943 |
| Product key | DK6943 |
| GTIN | 4067923449367 |
| Customs tariff number | 85364900 |
| Country of origin | Information on the country of origin is provided with the delivery. |

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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 | 14.04.2026 |
|------------------------------|------------|

Electrical properties

| | |
|--|--|
| Service life electrical | see diagram |
| Maximum power dissipation for nominal condition | 1 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 | 120 V AC |
| Input voltage range | 96 V AC ... 192 V AC |
| Drive and function | monostable |
| Drive (polarity) | non-polarized |
| Typical input current at U_N | 8.4 mA |
| Typical response time | 15 ms |
| Typical release time | 10 ms |
| Status display | LED (yellow) |

Output data

Switching

| | |
|-----------------------------|----------------------------|
| Contact switching type | 2 changeover contacts |
| Type of switch contact | Single contact |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 12 V (10 mA) |
| Limiting continuous current | 2x 12 A |
| Maximum inrush current | 24 A (20 ms, N/O contacts) |

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| | |
|---------------------------------------|------------------------|
| Min. switching current | 10 mA (12 V) |
| Interrupting rating (ohmic load) max. | 288 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 power min. | 0.12 W |

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

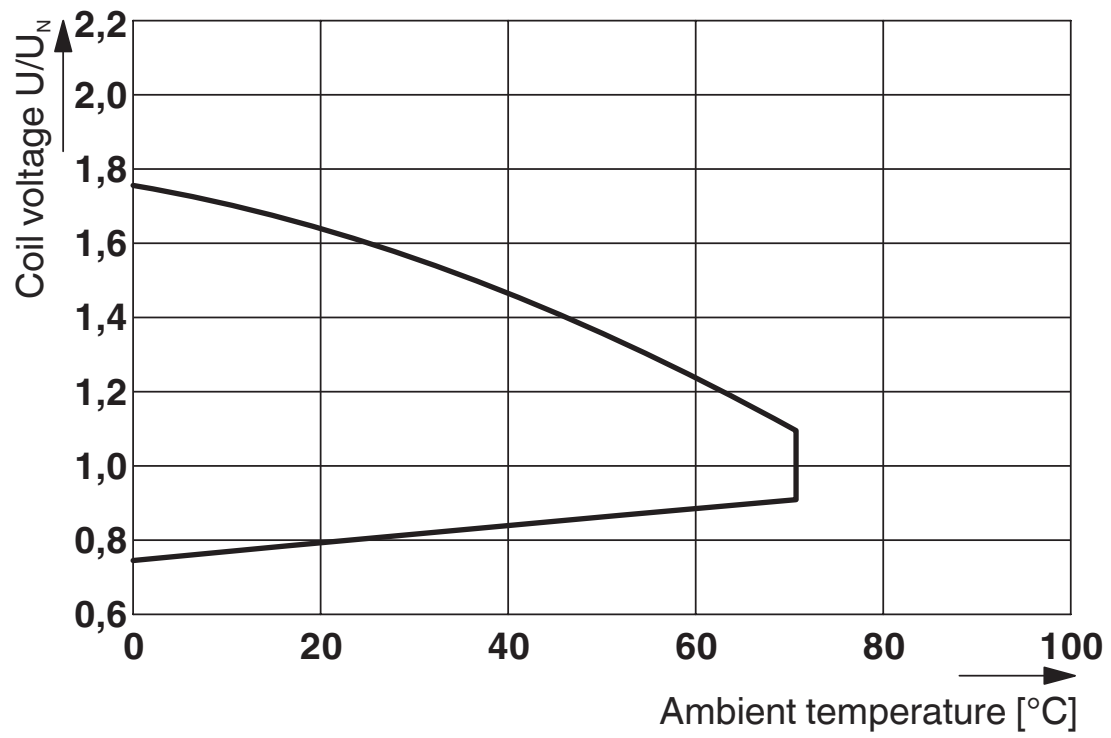
| | |
|-----------------------|------------|
| Standards/regulations | EN 61810-1 |
|-----------------------|------------|

Mounting

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

Drawings

Diagram



Operating voltage range

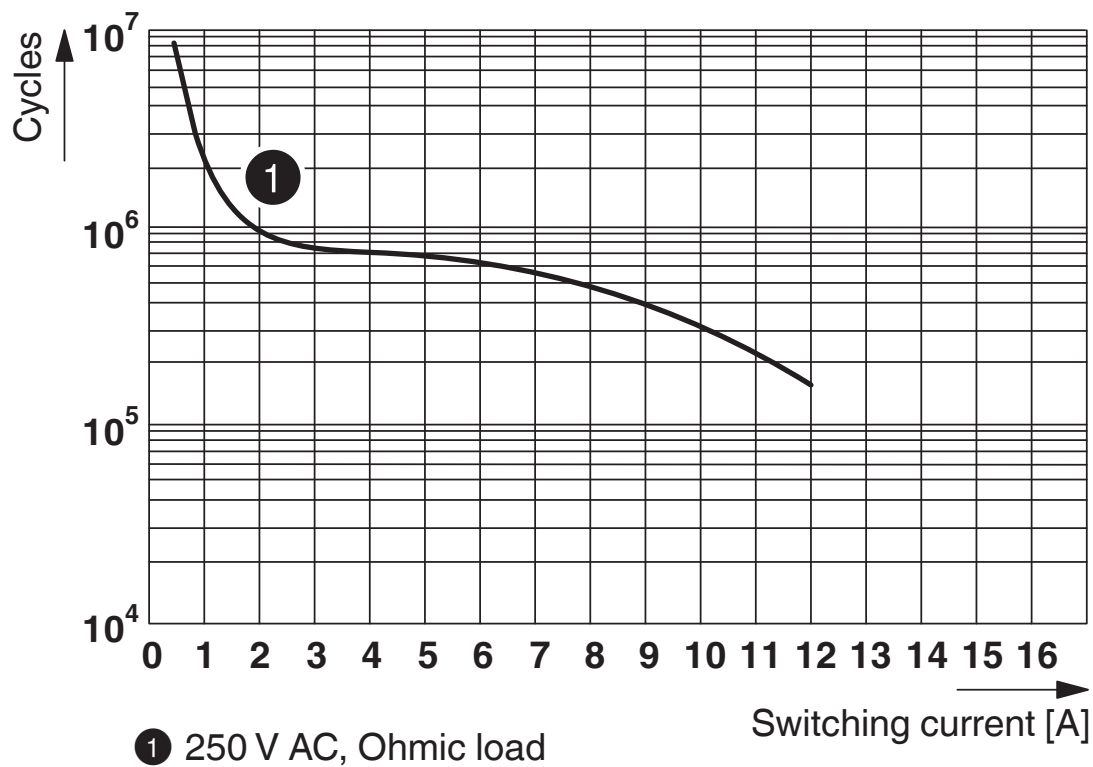
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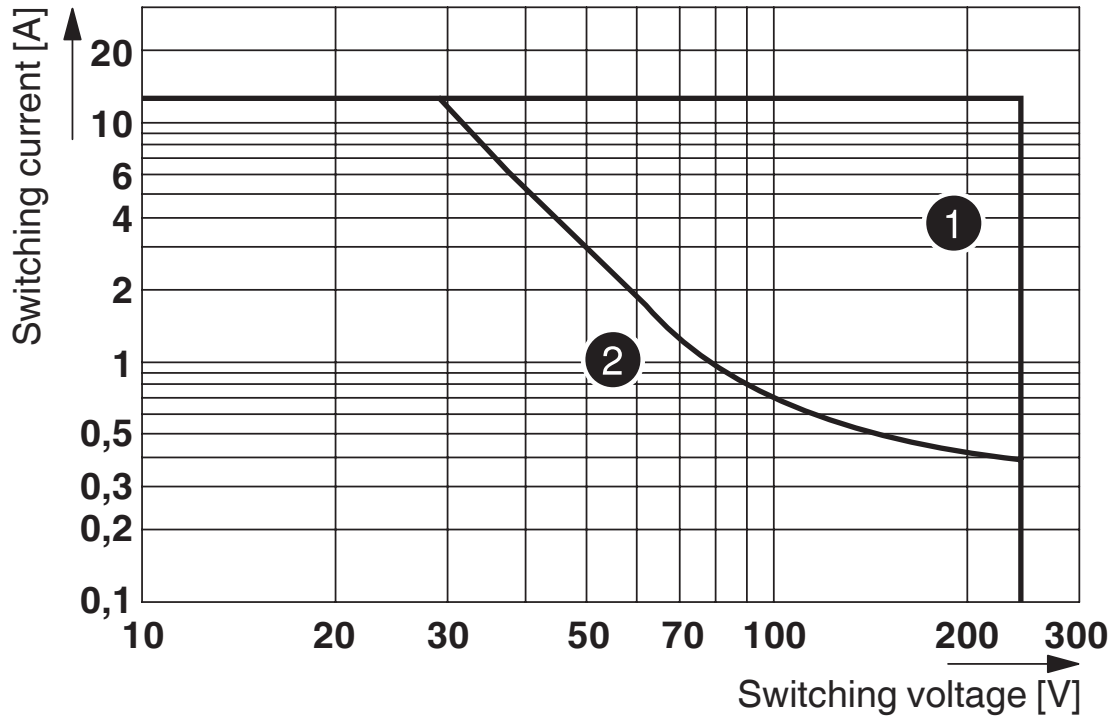
<https://www.phoenixcontact.com/au/products/1819071>

Diagram



Electrical service life

Diagram



- ① AC, ohmic load
- ② DC, ohmic load

Interrupting rating

Diagram



Service life reduction factor



Permissible humidity for operation and storage.

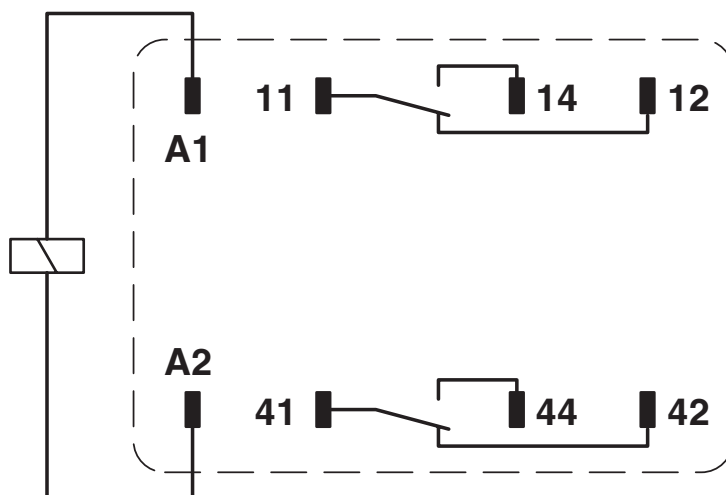
The maximum permissible ambient temperature as specified in the data sheet must be observed.

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



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/1819071>



cULus Recognized
Approval ID: E522914

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Classifications

ECLASS

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

ETIM

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

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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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