

REL-IR/L- 24AC/2X21 - Single relay



2834054

<https://www.phoenixcontact.com/us/products/2834054>

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Plug-in industrial relays with power contacts, 2 changeover contacts, test button, status LED, mechanical switching position indicator, input voltage: 24 V AC

The figure shows version: REL-IR/L-230AC/2X21

Your advantages

- With detectable manual operation
- Integrated status LED
- Mechanical switch position indicator
- DC types with integrated freewheeling diode

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2834054 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C460 |
| Product key | DK6193 |
| GTIN | 4017918941642 |
| Weight per piece (including packing) | 35.63 g |
| Weight per piece (excluding packing) | 35.63 g |
| Customs tariff number | 85364190 |
| Country of origin | JP |

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Technical data

Product properties

| | |
|-------------------------|---------------------------|
| Product type | Single relay |
| Operating mode | 100% operating factor |
| Mechanical service life | 5x 10 ⁷ cycles |

Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Pollution degree | 3 |

Data management status

| | |
|------------------------------|------------|
| Date of last data management | 05.09.2025 |
|------------------------------|------------|

Electrical properties

| | |
|---|--|
| Service life electrical | see diagram |
| Maximum power dissipation for nominal condition | 1.3 W |
| Test voltage (Winding/contact) | 2 kV AC (50 Hz, 1 min., winding/contact) |
| Test voltage (Contact/contact) | 2 kV AC (50 Hz, 1 min., contact/contact) |

Input data

Coil side

| | |
|---|--|
| Nominal input voltage U _N | 24 V AC |
| Input voltage range | 18.7 V AC ... 36 V AC |
| Mains frequency | 50/60 Hz |
| Drive and function | monostable |
| Typical input current at U _N | 54 mA (at 50 Hz) 46 mA (At 60 Hz) |
| Typical response time | 4 ms ... 10 ms (AC, depending on phase relation) |
| Typical release time range | 3 ms ... 12 ms (AC, depending on phase relation) |
| Coil resistance | 180 Ω ±15 % (at 20 °C) |

Output data

Switching

| | |
|---------------------------------------|------------------------|
| Contact switching type | 2 changeover contacts |
| Type of switch contact | Single contact |
| Contact material | Ag |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V |
| Limiting continuous current | 10 A |
| Maximum inrush current | 20 A (15 ms) |
| Min. switching current | 1 mA |
| Interrupting rating (ohmic load) max. | 2500 VA (for 250 V AC) |

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Connection data

Coil side

| | |
|-------------------|--------------------------|
| Connection method | Plug / solder connection |
|-------------------|--------------------------|

Contact side

| | |
|-------------------|--------------------------|
| Connection method | Plug / solder connection |
|-------------------|--------------------------|

Dimensions

| | |
|--------|---------|
| Width | 21.5 mm |
| Height | 28 mm |
| Depth | 36 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| Degree of protection | RT I |
| Ambient temperature (operation) | -55 °C ... 70 °C |
| Ambient temperature (storage/transport) | -55 °C ... 70 °C |

Standards and regulations

| | |
|-----------------------|----------------|
| Standards/regulations | DIN EN 61810-1 |
| | VDE 0435-201 |
| | EN 50178 |

Mounting

| | |
|-------------------|-------------------|
| Assembly note | On relay base PR2 |
| Mounting position | any |

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Drawings

Diagram



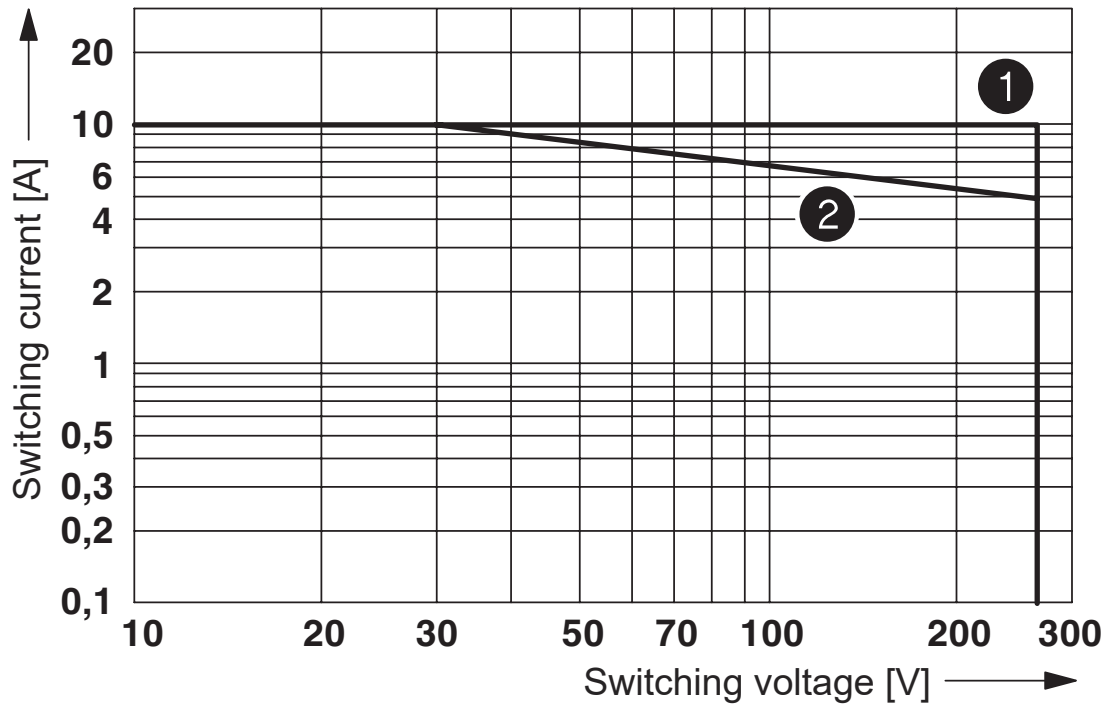
Operating voltage range

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Diagram

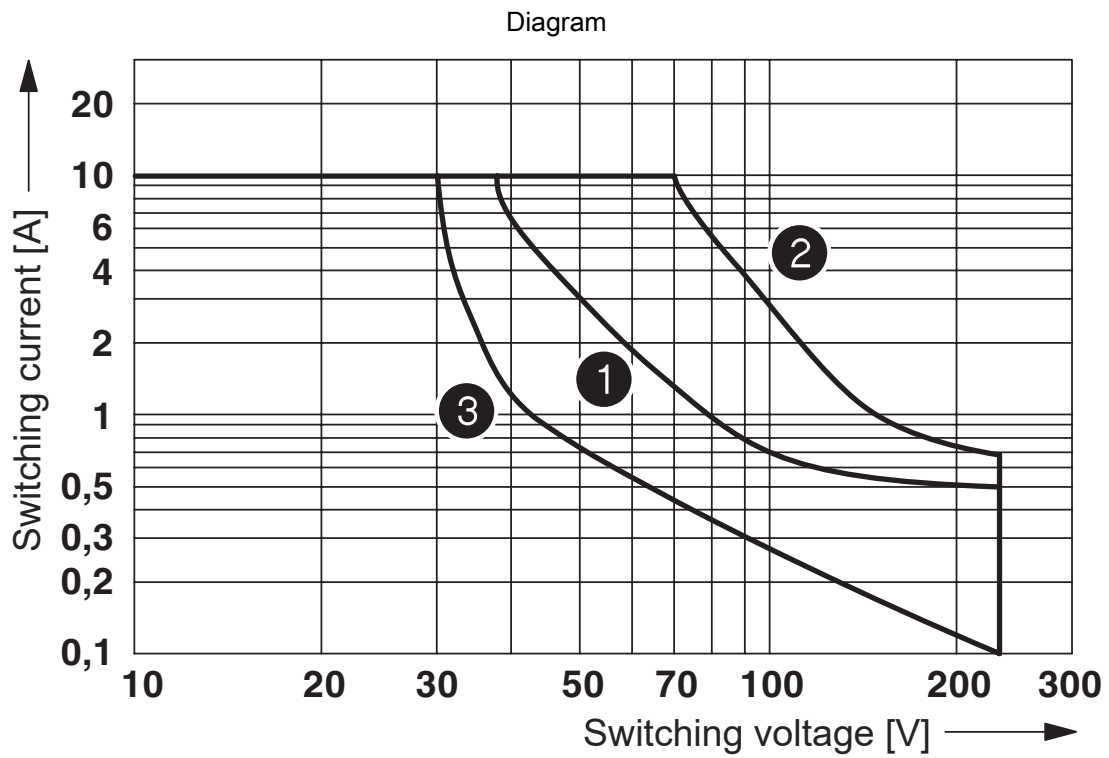


- ① Ohmic load
- ② $\cos \phi = 0.4$

AC interrupting rating

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- ① Ohmic load
- ② ohmic load, contacts in series
- ③ $L/R < 7$ ms

DC interrupting rating

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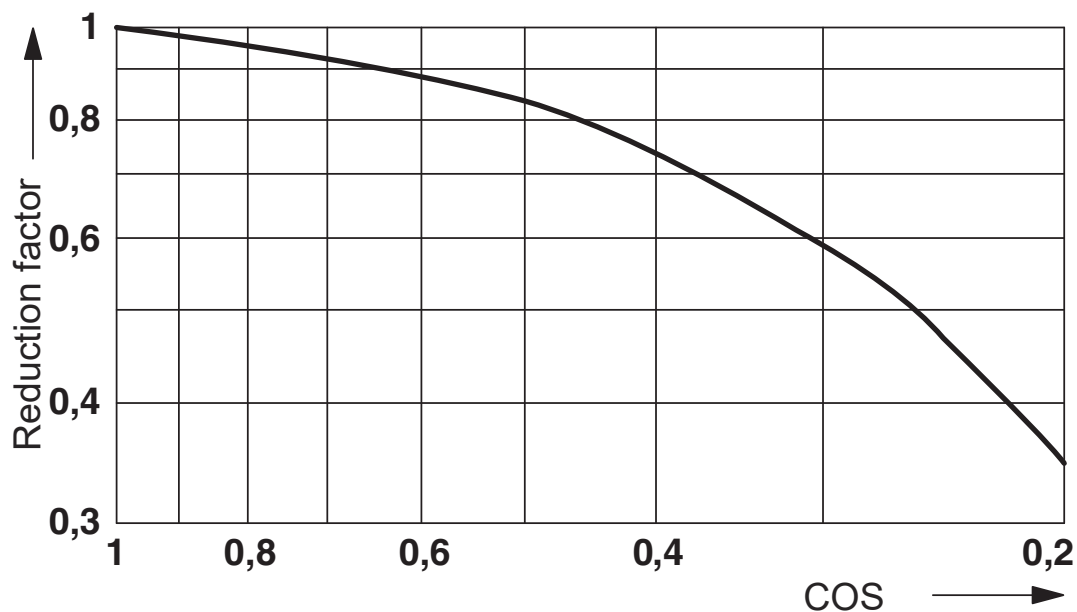
- ① 250 V AC, ohmic load
- ② 30 V DC, ohmic load

Electrical service life

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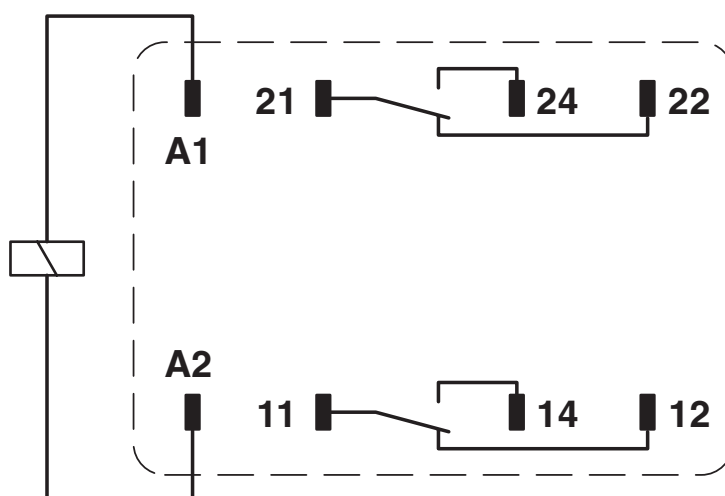
<https://www.phoenixcontact.com/us/products/2834054>

Diagram



Service life reduction factor

Circuit diagram



Shown without LED and damping diode.

Contacts 21, 22, 24 are led onto relay base connections 41, 42, 44.

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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39122334 |
|-------------|----------|

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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% |
|-------------------------------------|----------------------------|

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