

Single relay - REL-IR2/L- 24AC/2X21



2903666

<https://www.phoenixcontact.com/de/produkte/2903666>

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

Single relay - REL-IR2/L- 24AC/2X21



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Commercial Data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2903666 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Note | Made to Order (non-returnable) |
| Sales Key | G1 - Relais |
| Product Key | CK6193 |
| Catalog Page | Page 300 (C-5-2019) |
| GTIN | 4046356758192 |
| Weight per Piece (including packing) | 35,07 g |
| Weight per Piece (excluding packing) | 33,74 g |
| Customs tariff number | 85364190 |
| Country of origin | PL |

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Technical Data

Product properties

| | |
|-------------------------|--|
| Product type | Single relay |
| Set comprises | 2903313 RIF-2-RPT-LV-24AC/2X21 2903323 RIF-2-RSC-LV-24AC/2X21 |
| Operating mode | 100% operating factor |
| Mechanical service life | approx. 2×10^7 cycles |

Insulation characteristics

| | |
|----------------------|--|
| Overvoltage category | III |
| Pollution degree | 3 (Rated voltage of 230 V) 2 (Rated voltage of 400 V) |
| Insulation | Basic insulation |

Electrical properties

| | |
|--|--|
| Service life electrical | see diagram |
| Maximum power dissipation for nominal condition | 1.58 W |
| Test voltage | 2.5 kV _{rms} (50 Hz, 1 min., winding/contact) |
| Test voltage Contact/contact | 2.5 kV _{rms} (50 Hz, 1 min., contact/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 | 4 kV |

Input data

Coil side

| | |
|---|--|
| Nominal input voltage U_N | 24 V AC |
| Input voltage range | 18.7 V AC ... 33.1 V AC |
| Input voltage range in reference to U_N | see diagram |
| Mains frequency | 50/60 Hz |
| Typical input current at U_N | 66 mA |
| Typical response time | 5 ms ... 15 ms (depending on phase relation) |
| Typical release time range | 5 ms ... 20 ms (depending on phase relation) |
| Status display | Yellow LED |

Output data

Switching

| | |
|---------------------------|-----------------------|
| Contact type | 2 changeover contacts |
| Type of switch contact | Single contact |
| Drive and function | monostable |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |

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| | |
|---------------------------------------|--|
| Minimum switching voltage | 5 V (At 24 mA) |
| Limiting continuous current | 12 A |
| Maximum inrush current | 30 A (20 ms, N/O contacts) |
| Min. switching current | 5 mA (at 24 V) |
| Interrupting rating (ohmic load) max. | 288 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) 3000 VA (for 250 V AC) |
| Switching capacity min. | 0.12 W |
| Motor load according to UL 508 | 1/2 HP, 240 V AC |

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 ... 55 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Approval data

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 |
|-------------------|-----|

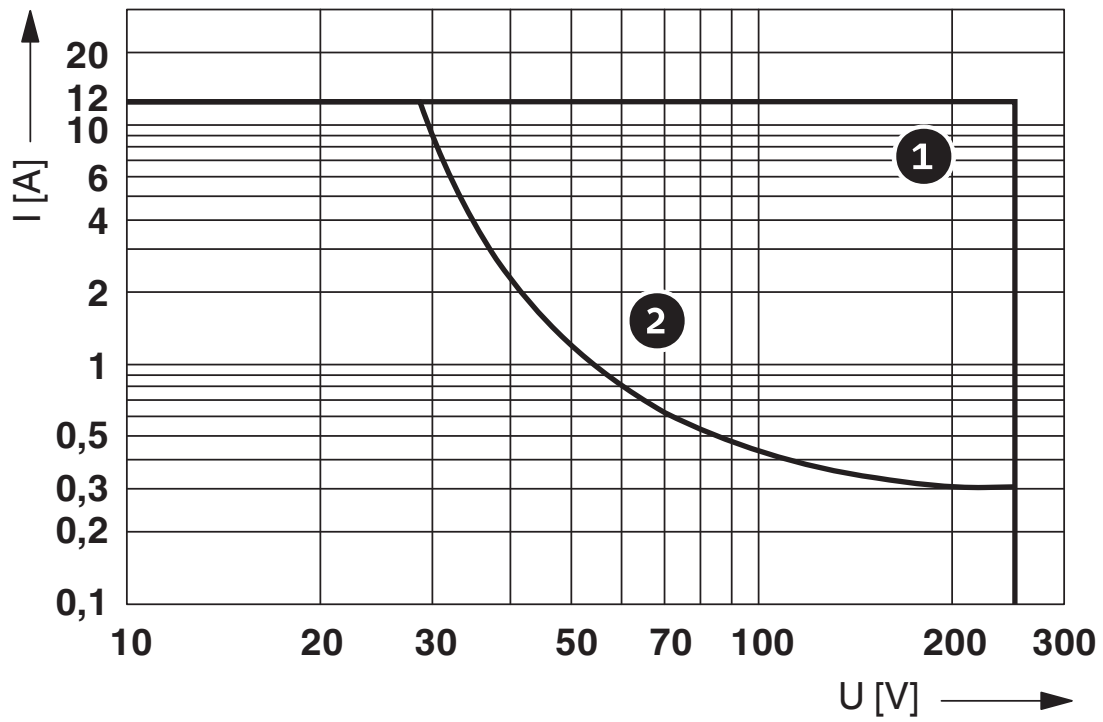
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Drawings

Diagram



Interrupting rating

Curve 1: AC, ohmic load

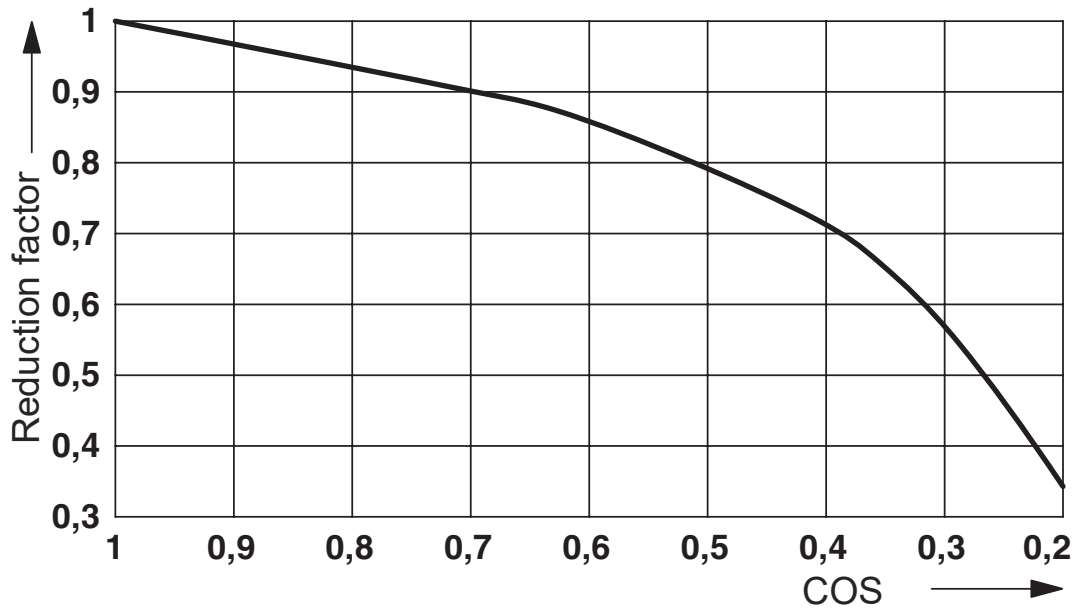
Curve 2: DC, ohmic load

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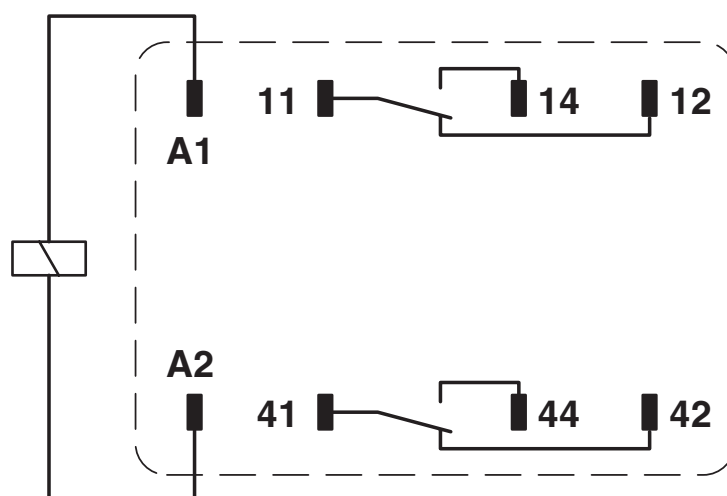
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Diagram



Service life reduction factor

Circuit diagram

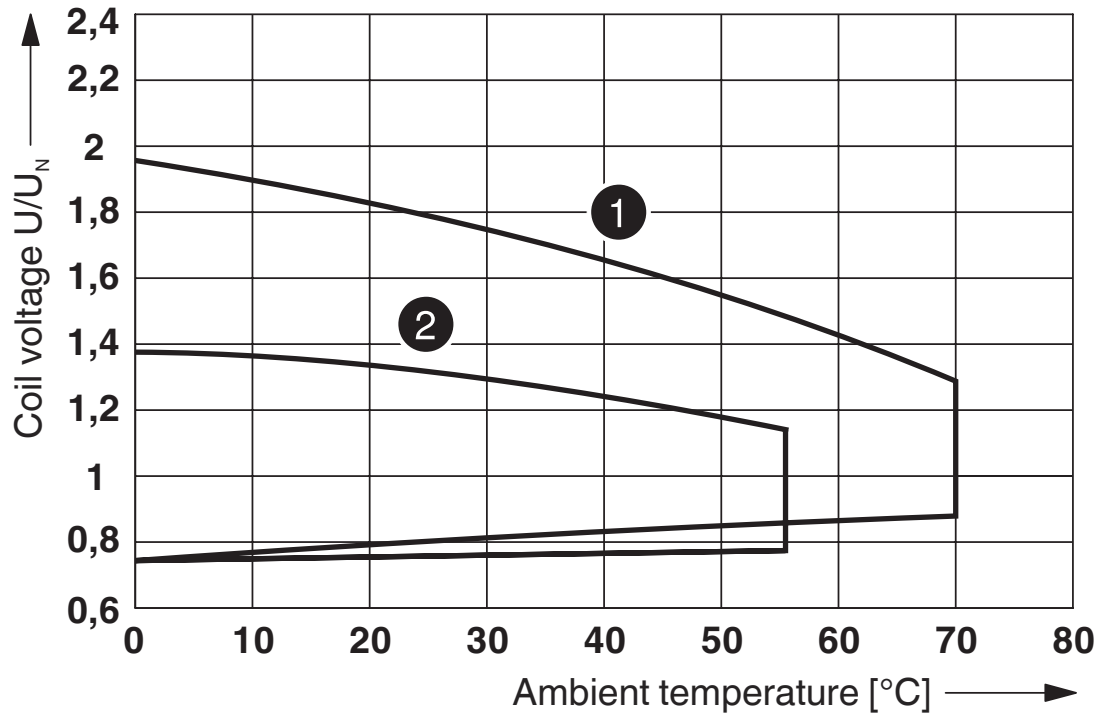


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Diagram



① DC coils

② AC coils

Operating voltage range

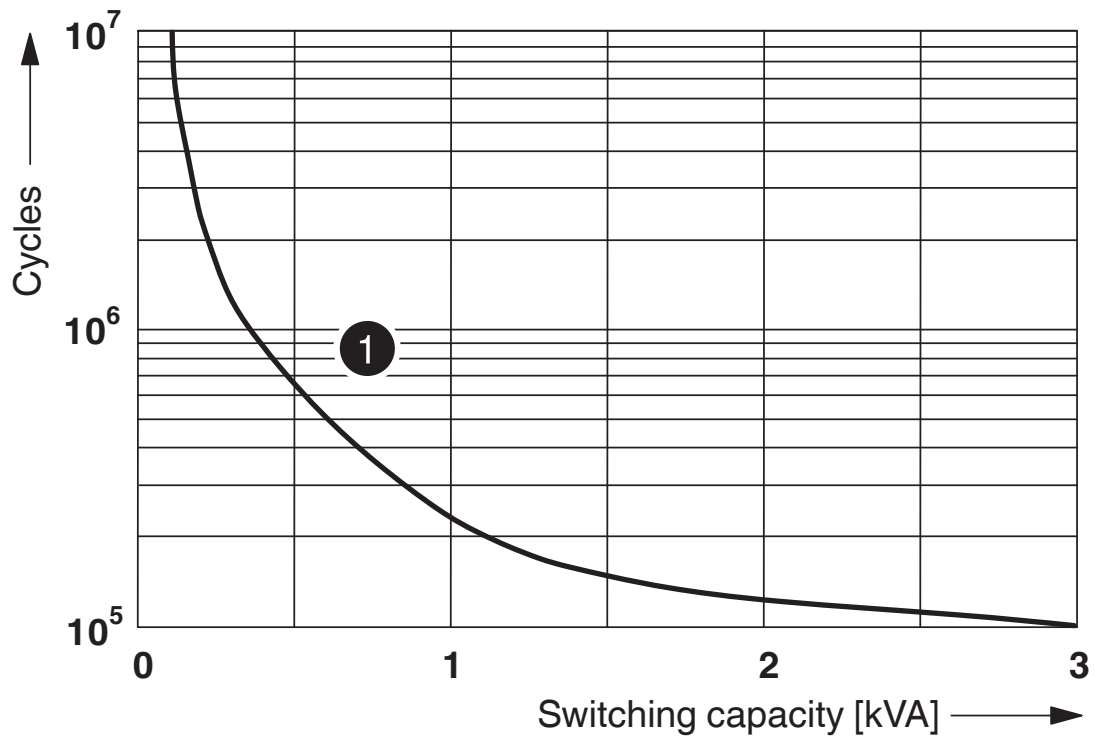
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Diagram



① 250 V AC, Ohmic load

Electrical service life

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Approvals

 **CSA**
Approval ID: 2554095

 **cUL Recognized**
Approval ID: FILE E 172140

 **UL Recognized**
Approval ID: FILE E 172140

 **EAC**
Approval ID: TR_TS_D_00573_c

 **VDE Zeichengenehmigung**
Approval ID: 40040427

cULus Recognized

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Classifications

ECLASS

| | |
|---------------|----------|
| ECLASS-9.0 | 27371601 |
| ECLASS-10.0.1 | 27371601 |
| ECLASS-11.0 | 27371601 |

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC001437 |
|----------|----------|

UNSPSC

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

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Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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Accessories

Relay base

Relay base - RIF-2-BPT/4X21 - 2900934

<https://www.phoenixcontact.com/de/produkte/2900934>



Relay base RIF-2..., for industrial relay with 2 or 4 changeover contacts, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

Relay base

Relay base - RIF-2-BSC/4X21 - 2900932

<https://www.phoenixcontact.com/de/produkte/2900932>



RIF-2... relay base, for industrial relay with 2 or 4 changeover contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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