

1109547

https://www.phoenixcontact.com/us/products/1109547

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Plug-in industrial relay in basic design with power contacts, 2 changeover contacts, test button, status LED, mechanical switch position indicator, polarity A1+, A2-, input voltage: 12 V DC

Commercial data

| Item number | 1109547 |
|--------------------------------------|---------------|
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C460 |
| Product key | CKF943 |
| GTIN | 4063151021627 |
| Weight per piece (including packing) | 30.55 g |
| Weight per piece (excluding packing) | 29.22 g |
| Customs tariff number | 85364900 |
| Country of origin | AT |



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Technical data

Notes

| Notes on operation | Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch. |
|--------------------|--|
| Notes on operation | The outputs are not suitable for switching different outer conductors. |
| Notes on operation | Do not use to separate SELV / PELV circuits from other circuits, because safe isolation is not guaranteed. |

Product properties

| Product type | Single relay |
|-------------------------|---------------------------|
| Operating mode | 100% operating factor |
| Mechanical service life | 3x 10 ⁷ cycles |

Data management status

| • | |
|------------------------------|------------|
| Date of last data management | 18.01.2024 |
| Article revision | 00 |

Insulation characteristics: Air clearances and creepage distances between coil and contact side

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

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) | $2.5~\mathrm{kV}_\mathrm{rms}$ (50 Hz, 1 min., changeover contact/changeover contact) |

Air clearances and creepage distances between coil and contact side

| Rated insulation voltage | 250 V AC |
|--------------------------|----------|
| Rated surge voltage | 5 kV |

Input data

Coil side

| Nominal input voltage U _N | 12 V DC |
|---|----------------------------|
| Input voltage range | 9.6 V DC 20.4 V DC (20 °C) |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at U _N | 63 mA |
| Typical response time | 15 ms |
| Typical release time | 10 ms |
| Coil voltage | 12 V DC |
| Status display | LED (yellow) |



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| Coil resistance | 192 Ω ±10 % |
|-----------------------------|----------------------------|
| 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 | 12 A |
| Maximum inrush current | 24 A (20 ms, N/O contacts) |
| Min. switching current | 10 mA (12 V) |

288 W (24 V DC)

130 W (48 V DC) 90 W (60 V DC) 66 W (110 V DC) 88 W (220 V DC) 3000 VA (250 V AC)

120 mW

Connection data

Switching capacity min.

|--|

Dimensions

| Width | 22.5 mm |
|--------|---------|
| Height | 28 mm |
| Depth | 35.5 mm |

Environmental and real-life conditions

Interrupting rating (ohmic load) max.

Ambient conditions

| Degree of protection | RT II |
|--|--------------------------------|
| Degree of protection (Installation location) | ≥ IP54 (Installation location) |
| Ambient temperature (operation) | -40 °C 70 °C |
| Ambient temperature (storage/transport) | -40 °C 70 °C |
| Altitude | ≤ 2000 m |

Standards and regulations

Air clearances and creepage distances between coil and contact side

| Standards/regulations | EN 61810-1 |
|------------------------|-------------|
| Ctarida do/regalations | 214 01010 1 |

Mounting

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



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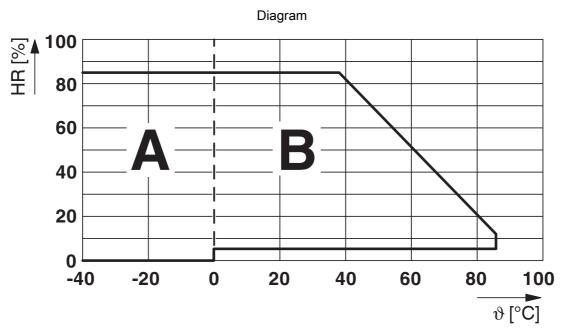
| Mounting position | any |
|-------------------|-----|
| | |



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Drawings



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

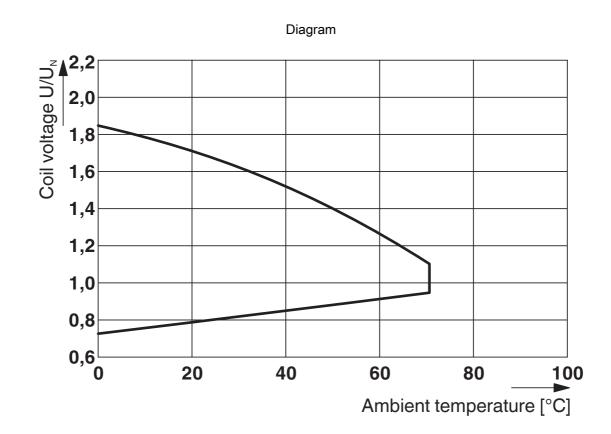
Area B: Condensation at ambient temperatures > 0°C must be prevented

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.



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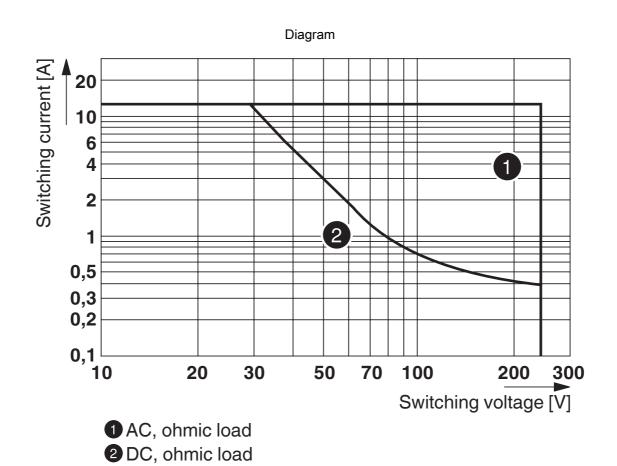


Operating voltage range



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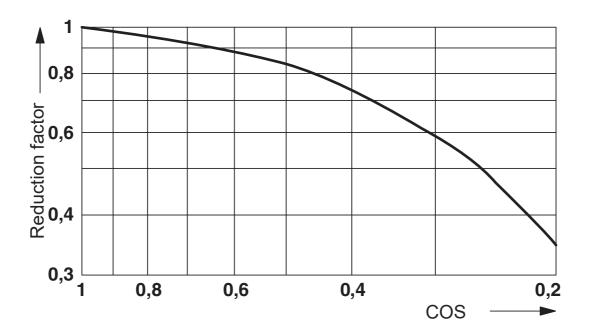
Interrupting rating



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Diagram

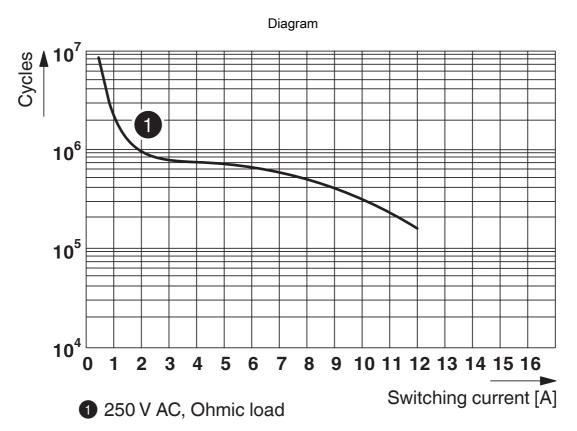


Service life reduction factor



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Electrical service life



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Approvals

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cUL Recognized

Approval ID: FILE E 228652



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Classifications

UNSPSC 21.0

ECLASS

| | ECLASS-11.0 | 27371601 |
|--------|-------------|----------|
| | ECLASS-12.0 | 27371601 |
| | ECLASS-13.0 | 27371601 |
| ETIM | | |
| ΕI | IIVI | |
| | ETIM 8.0 | EC001437 |
| UNSPSC | | |
| | | |

39122300



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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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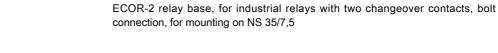
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Mandatory accessories

ECOR-2-BSC2-RT/2X21 - Relay base

2908341

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ECOR-2-BSC2-RT/4X21 - Relay base

2908214

https://www.phoenixcontact.com/us/products/2908214



ECOR-2 relay base, for industrial relays with four changeover contacts, bolt connection, for mounting on NS 35/7,5



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ECOR-2-BSC3/4X21 - Relay base

2907521

https://www.phoenixcontact.com/us/products/2907521



ECOR-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

ECOR-2-BSC2/4X21 - Relay base

1089994

https://www.phoenixcontact.com/us/products/1089994



ECOR-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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