

2906285

https://www.phoenixcontact.com/us/products/2906285

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Plug-in miniature power relay in basic design, with power contact for high continuous currents, 1 changeover contact, input voltage 24 V DC

Commercial data

| Item number | 2906285 |
|--------------------------------------|---------------|
| Packing unit | 20 pc |
| Minimum order quantity | 20 pc |
| Sales key | C460 |
| Product key | CKF921 |
| GTIN | 4055626066943 |
| Weight per piece (including packing) | 12.4 g |
| Weight per piece (excluding packing) | 12.3 g |
| Customs tariff number | 85364900 |
| Country of origin | AT |



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Technical data

Product properties

| Single relay |
|---------------------------|
| 100% operating factor |
| 1x 10 ⁷ cycles |
| |
| 03.05.2024 |
| 02 |
| |
| Basic insulation |
| III |
| 3 |
| |

Electrical properties

| Service life electrical | see diagram |
|---|--|
| Maximum power dissipation for nominal condition | 0.4 W |
| Test voltage (Winding/contact) | 5 kV AC (50 Hz, 1 min., winding/contact) |
| Rated insulation voltage | 250 V AC |
| Rated surge voltage | 4 kV |

Input data

Coil side

| Nominal input voltage U _N | 24 V DC |
|---|-------------------|
| Input voltage range | 16.8 V DC 54 V DC |
| Drive and function | monostable |
| Drive (polarity) | non-polarized |
| Typical input current at U _N | 17 mA |
| Typical response time | 8 ms |
| Typical release time | 6 ms |

Output data

Switching

| Switching | |
|-----------------------------|----------------------|
| Contact switching type | 1 changeover contact |
| 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 | 16 A |
| Maximum inrush current | 30 A (300 ms) |
| Min. switching current | 10 mA (at 12 V) |



2906285

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| Interrupting rating (ohmic load) max. | 384 W (at 24 V DC) |
|---------------------------------------|------------------------|
| | 58 W (at 48 V DC) |
| | 48 W (at 60 V DC) |
| | 50 W (at 110 V DC) |
| | 80 W (at 220 V DC) |
| | 4000 VA (for 250 V AC) |
| Switching capacity | 2 A (at 24 V, DC13) |
| | 1.5 A (at 230 V, AC15) |

Connection data

| Connection method | Solder connection |
|-------------------|-------------------|
|-------------------|-------------------|

Dimensions

| Dimensional drawing | 29 12.7 |
|---------------------|---------|
| Width | 12.7 mm |
| Height | 29 mm |
| Depth | 15.7 mm |

Material specifications

| Color | orange (RAL 2003) |
|-------|-------------------|

Environmental and real-life conditions

Ambient conditions

| Degree of protection | RT II |
|---|--------------|
| Ambient temperature (operation) | -40 °C 85 °C |
| Ambient temperature (storage/transport) | -40 °C 85 °C |

Standards and regulations

| Standards/regulations | IEC 60664 |
|-----------------------|------------|
| | EN 61810-1 |

Mounting

| Mounting type | Plug-in mounting |
|-------------------|------------------|
| Mounting position | any |

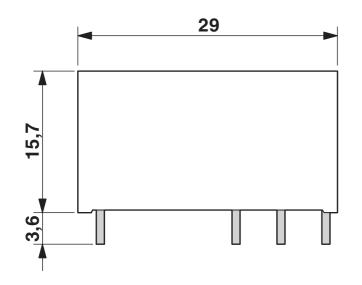


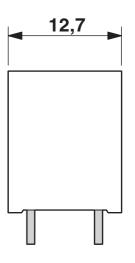
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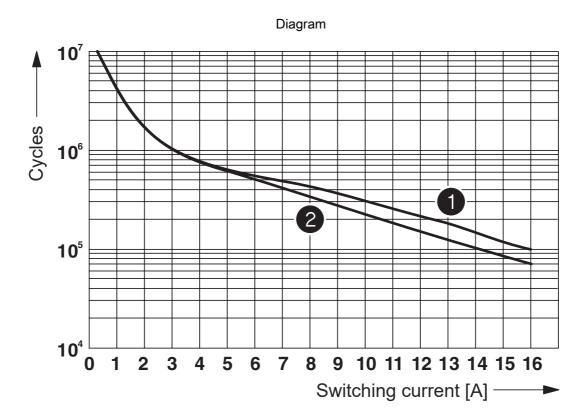
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Drawings

Dimensional drawing







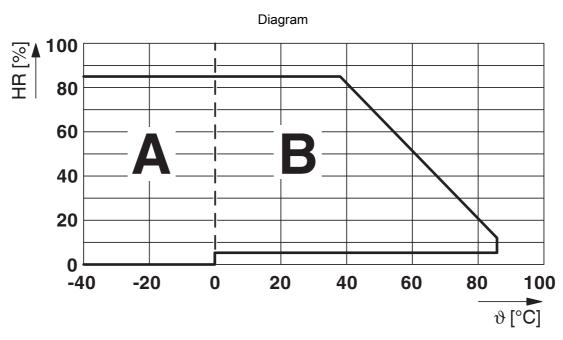
- 250 V AC, ohmic load (DC coils)
 250 V AC, ohmic load (AC coils)

Electrical service life



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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 \leq 25°C.

Drilling plan/solder pad geometry 5 5 1,28

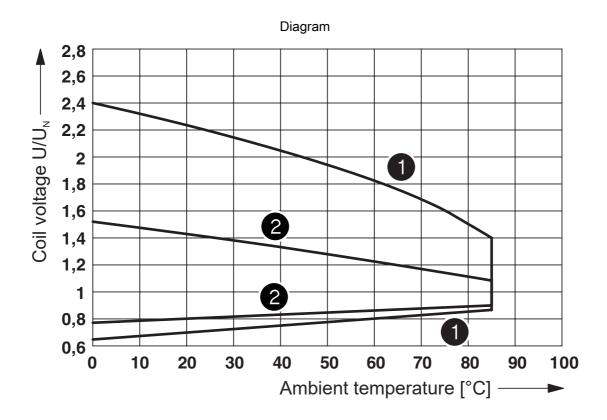
Basic pitch 2.5 mm



2906285

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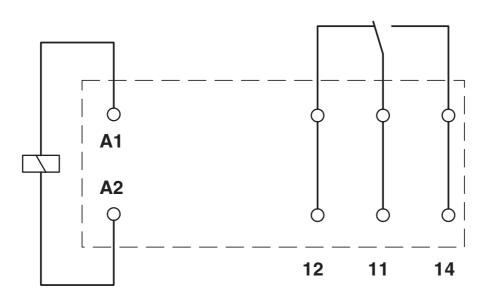




DC coilsAC coils

Operating voltage range

Circuit diagram

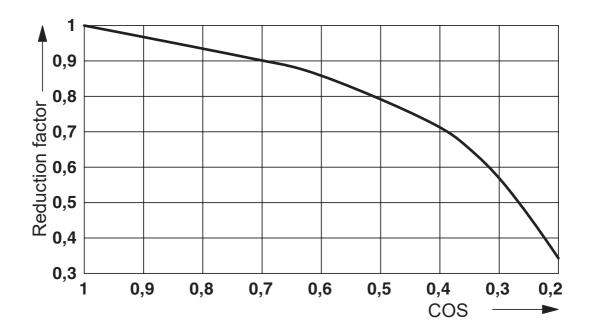




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Diagram



Service life reduction factor with various cos phi



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2906285



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 | | | |
| | ETIM 9.0 | EC001437 | |
| UNSPSC | | | |
| UNOFOC | | | |

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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Mandatory accessories

ECOR-1-BSC2-RT/2X21 - Relay base

1027546

https://www.phoenixcontact.com/us/products/1027546



ECOR-1... relay base, for miniature power relays or miniature switching relays with 1 or 2 changeover contacts, bolt connection, for mounting on NS 35/7,5.

ECOR-1-BSC3/2X21 - Relay base

2907518

https://www.phoenixcontact.com/us/products/2907518



ECOR-1... relay base, for miniature power relay or miniature switching relay with 1 or 2 changeover contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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