

REL-IR-BL/L-230AC/4X21 - Single relay



1032531

<https://www.phoenixcontact.com/us/products/1032531>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Plug-in industrial relay with power contacts, 4 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 230 V AC

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1032531 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C460 |
| Product key | CKF947 |
| GTIN | 4055626537047 |
| Weight per piece (including packing) | 30.197 g |
| Weight per piece (excluding packing) | 29.02 g |
| Customs tariff number | 85364900 |
| Country of origin | AT |

Technical data

Notes

| | |
|---------|--|
| General | Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch. |
| General | The outputs are not suitable for switching different outer conductors. |
| General | 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 | 2x 10 ⁷ cycles |

Insulation characteristics

| | |
|------------|------------------|
| Insulation | Basic insulation |
|------------|------------------|

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 | 1 VA |
| 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) |

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 | 230 V AC |
| Input voltage range | 184 V AC ... 379.5 V AC (20 °C) |
| Mains frequency | 50/60 Hz |
| Drive and function | monostable |
| Drive (polarity) | non-polarized |
| Typical input current at U _N | 4.4 mA (50 Hz) |
| Typical response time | 5 ms ... 15 ms |
| Typical release time range | 5 ms ... 20 ms |
| Coil voltage | 230 V AC |
| Status display | Yellow LED |

REL-IR-BL/L-230AC/4X21 - Single relay



1032531

<https://www.phoenixcontact.com/us/products/1032531>

Output data

Switching

| | |
|---------------------------------------|----------------------------|
| Contact switching type | 4 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 | 6 A |
| Maximum inrush current | 12 A (20 ms, N/O contacts) |
| Min. switching current | 10 mA (12 V) |
| Interrupting rating (ohmic load) max. | 144 W (24 V DC) |
| | 130 W (48 V DC) |
| | 90 W (60 V DC) |
| | 66 W (110 V DC) |
| | 88 W (220 V DC) |
| | 1500 VA (250 V AC) |
| Switching capacity min. | 120 mW |

Connection data

| | |
|-------------------|--------------------|
| Connection method | Plug-in connection |
|-------------------|--------------------|

Dimensions

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

Environmental and real-life conditions

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

Mounting

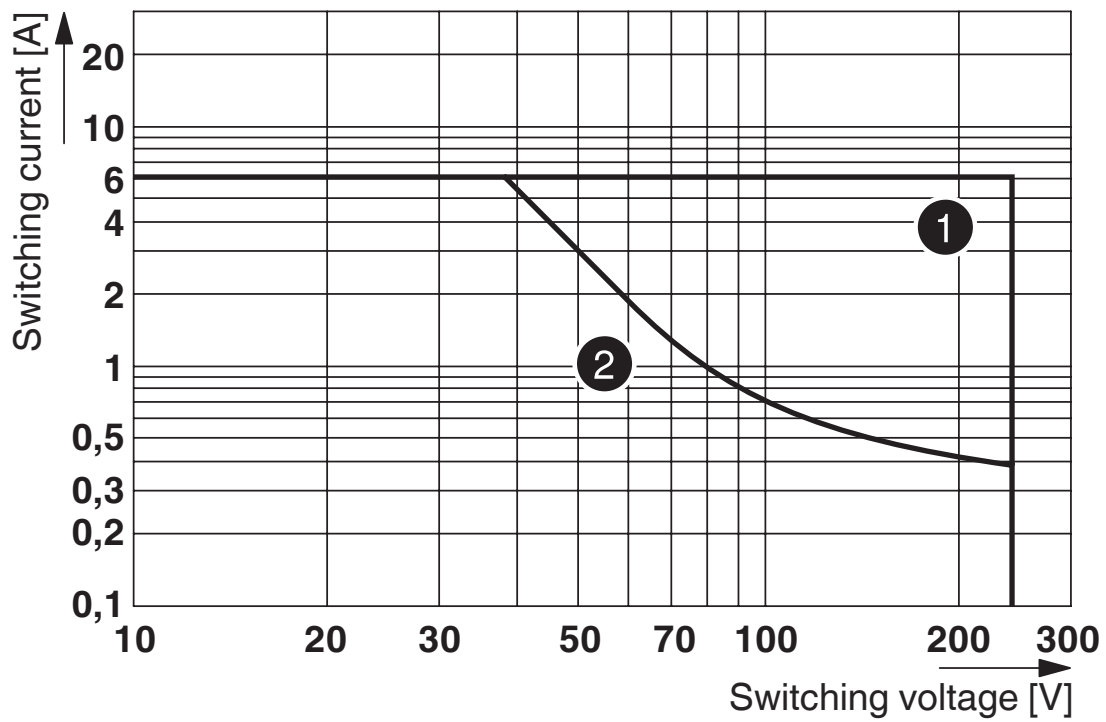
| | |
|-----------------------|---------------------------|
| Mounting type | Plug-in mounting |
| Assembly instructions | in rows with zero spacing |
| Mounting position | any |

1032531

<https://www.phoenixcontact.com/us/products/1032531>

Drawings

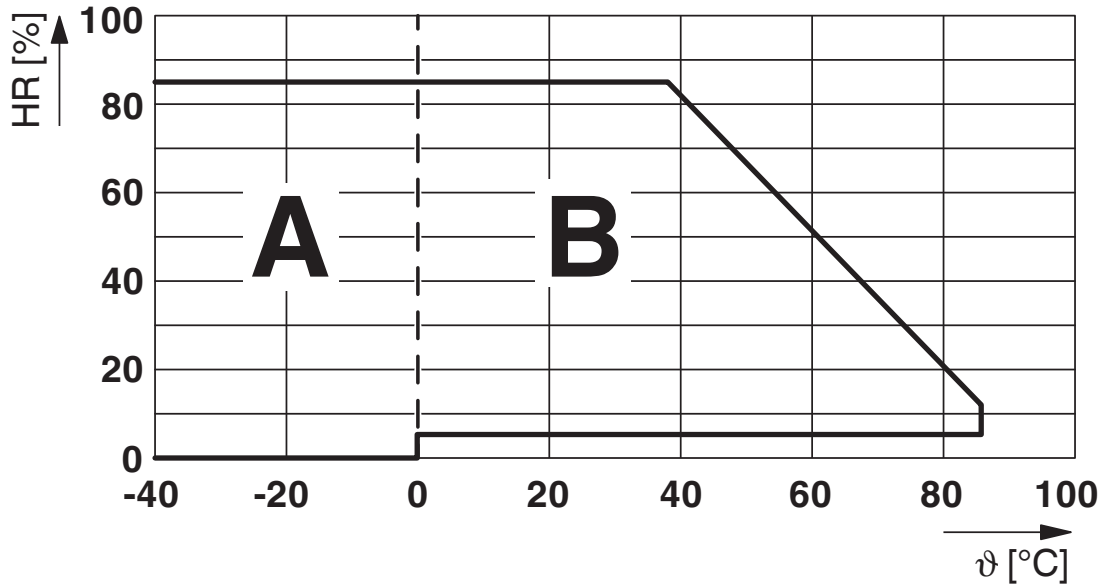
Diagram



- ① AC, ohmic load
- ② DC, ohmic load

Interrupting rating

Diagram



Permissible humidity for operation and storage.

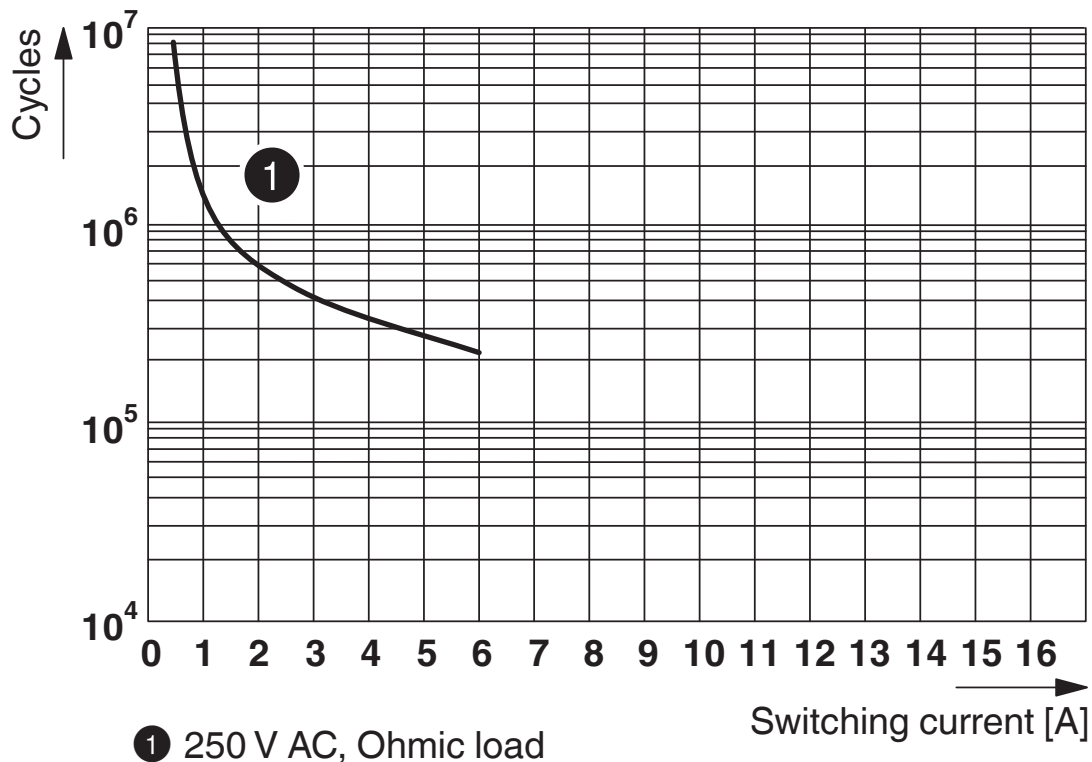
The maximum permissible ambient temperature as specified in the data sheet must be observed.

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

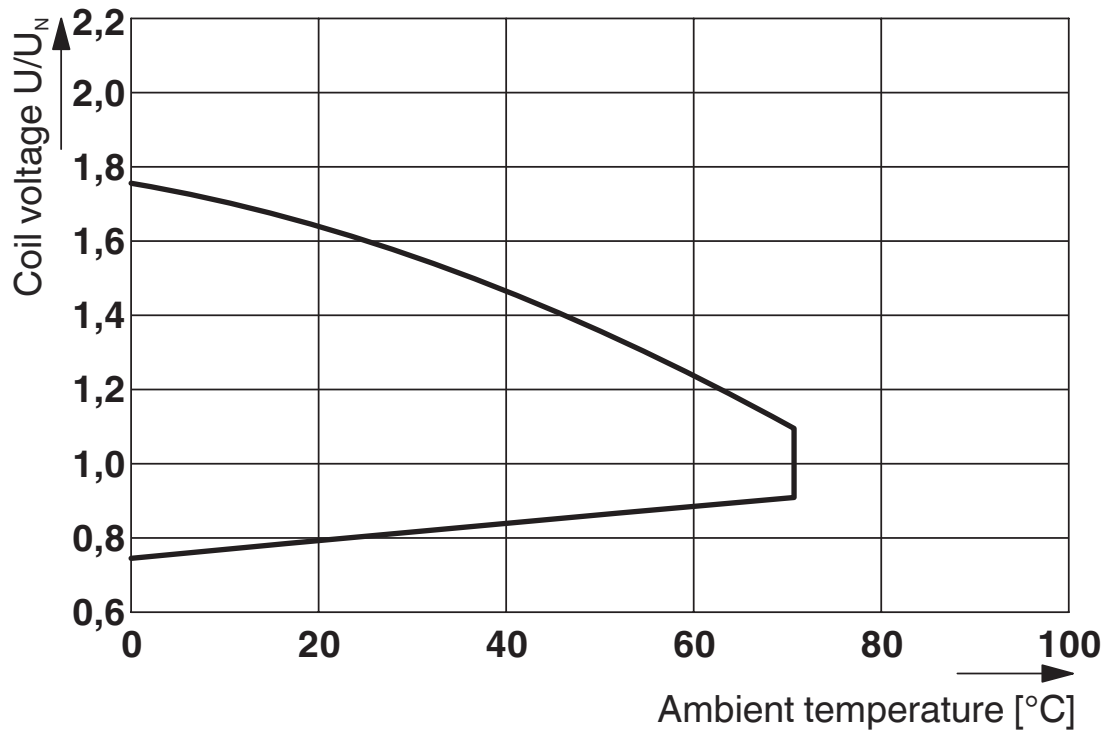
On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature $\leq 25^\circ\text{C}$.

Diagram



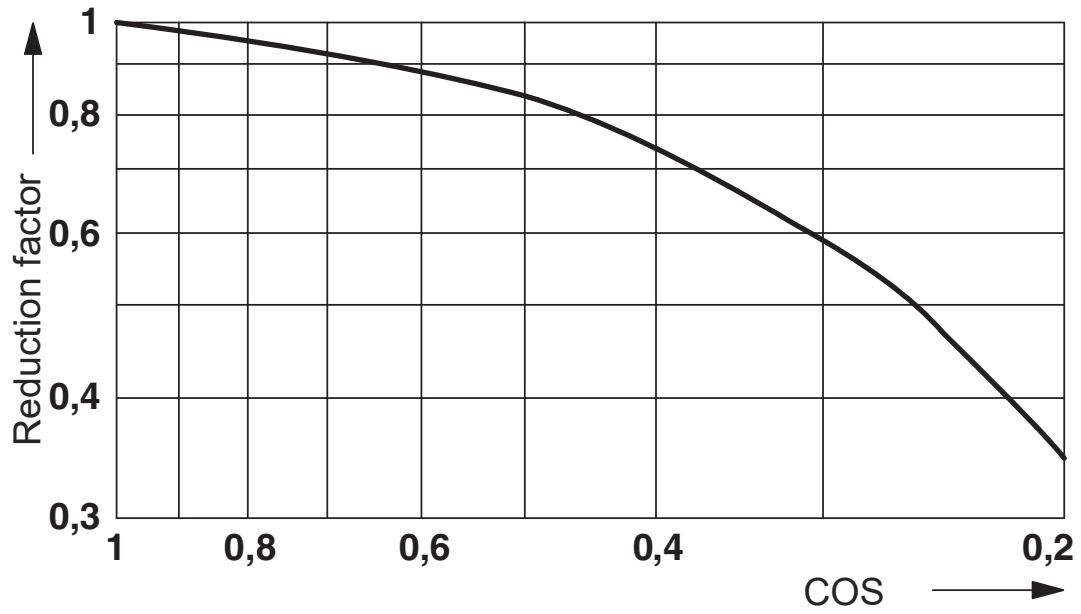
Electrical service life

Diagram



Operating voltage range

Diagram



Service life reduction factor

REL-IR-BL/L-230AC/4X21 - Single relay



1032531

<https://www.phoenixcontact.com/us/products/1032531>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1032531>



cUL Recognized

Approval ID: FILE E 228652



UL Recognized

Approval ID: FILE E 228652



EAC

Approval ID: TR_TS_D_00573_c



EAC

Approval ID: RU*C-DE.*08.B.00010

cULus Recognized

REL-IR-BL/L-230AC/4X21 - Single relay



1032531

<https://www.phoenixcontact.com/us/products/1032531>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27371601 |
| ECLASS-12.0 | 27371601 |
| ECLASS-13.0 | 27371601 |

ETIM

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

UNSPSC

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

REL-IR-BL/L-230AC/4X21 - Single relay



1032531

<https://www.phoenixcontact.com/us/products/1032531>

Environmental product compliance

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

REL-IR-BL/L-230AC/4X21 - Single relay



1032531

<https://www.phoenixcontact.com/us/products/1032531>

Mandatory accessories

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



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



REL-IR-BL/L-230AC/4X21 - Single relay

1032531

<https://www.phoenixcontact.com/us/products/1032531>



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

Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com