

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



1032531

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

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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	DKF947
GTIN	4055626537047
Weight per piece (including packing)	30.197 g
Weight per piece (excluding packing)	30.02 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
Product family	ESSENTIAL edition
Operating mode	100% operating factor
Mechanical service life	2x 10 <sup>7</sup> cycles

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

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	05.09.2025
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### Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	1 VA
Test voltage (Winding/contact)	2.5 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2 kV <sub>rms</sub> (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 <sub>N</sub>	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 <sub>N</sub>	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

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Status display	LED (yellow)
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## 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 power min.	120 mW

## Connection data

Connection method	Plug-in connection
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## 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
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## Mounting

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

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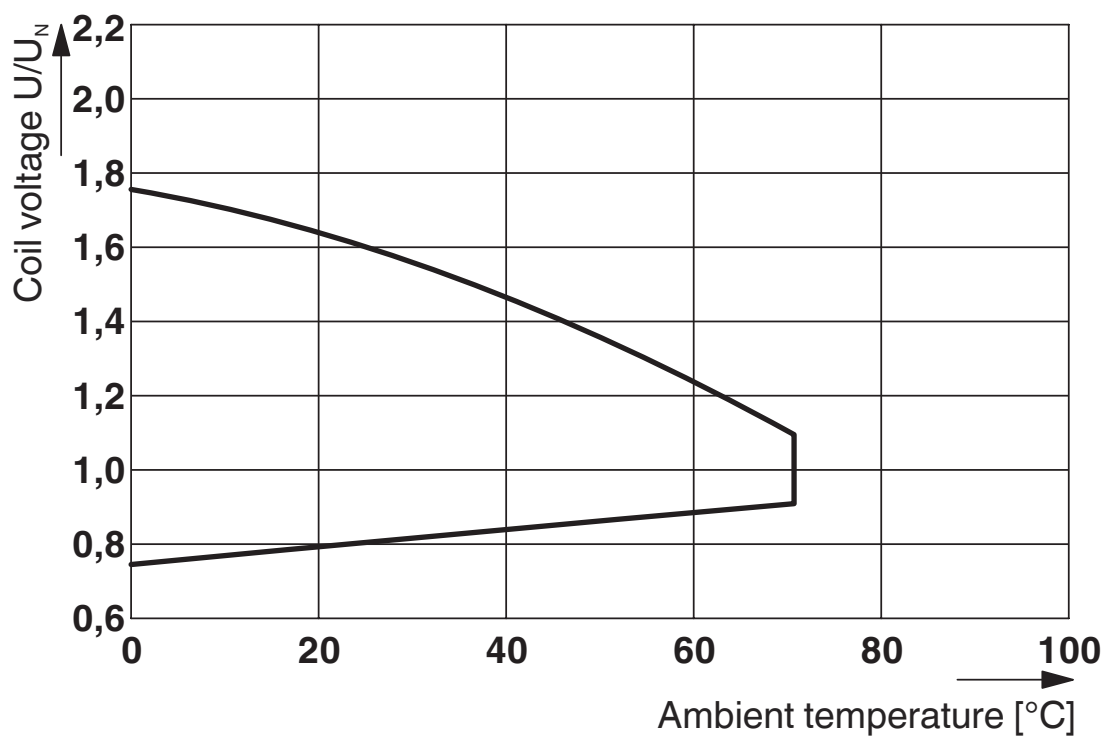
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Mounting position	any
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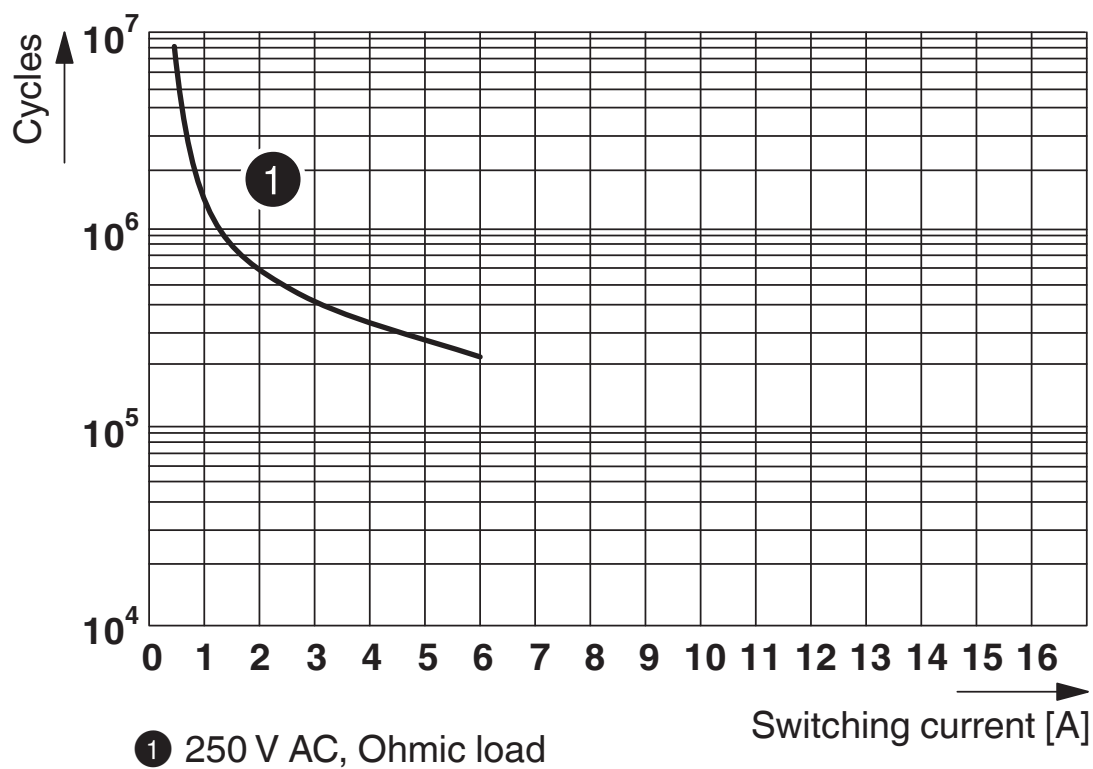
## Drawings

Diagram

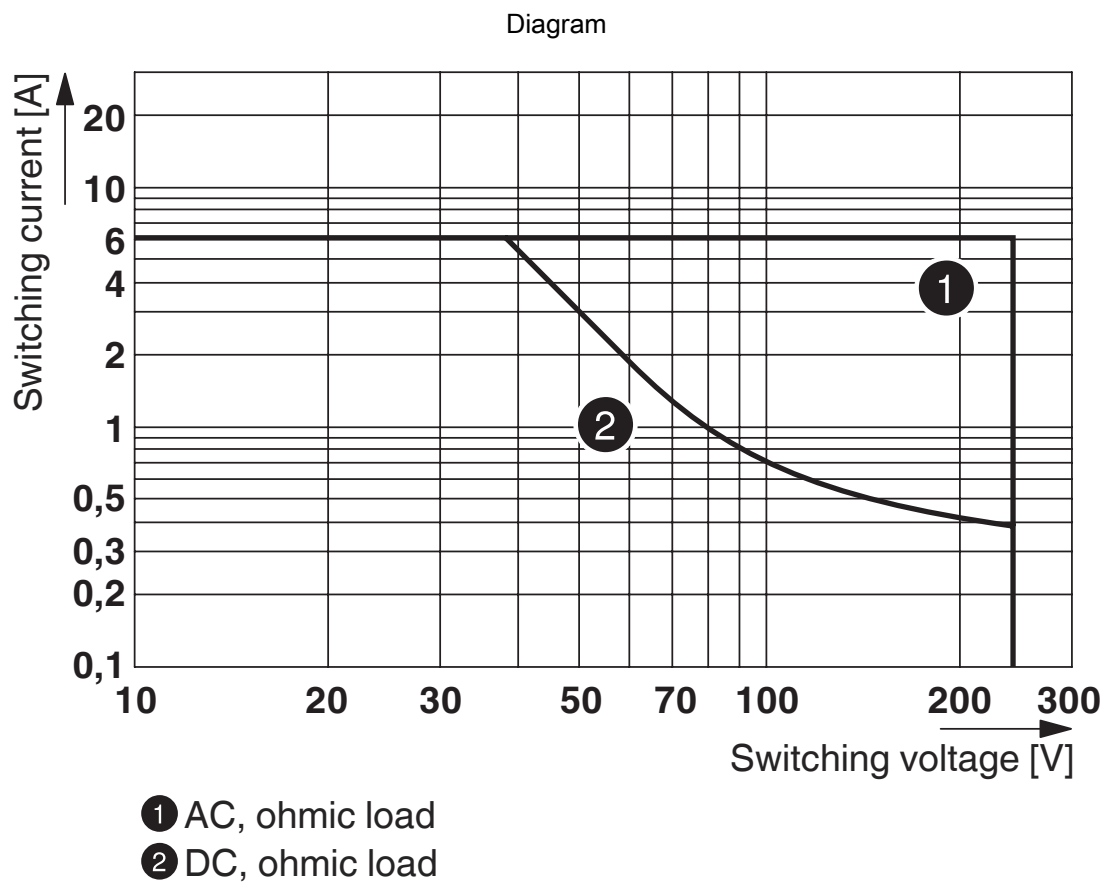


Operating voltage range

Diagram

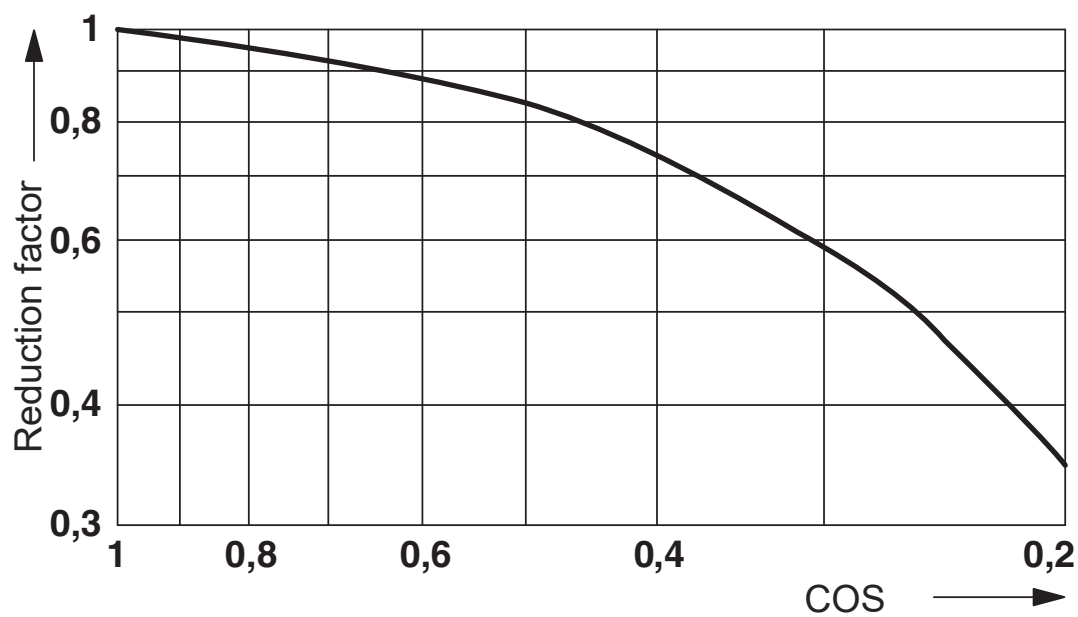


Electrical service life



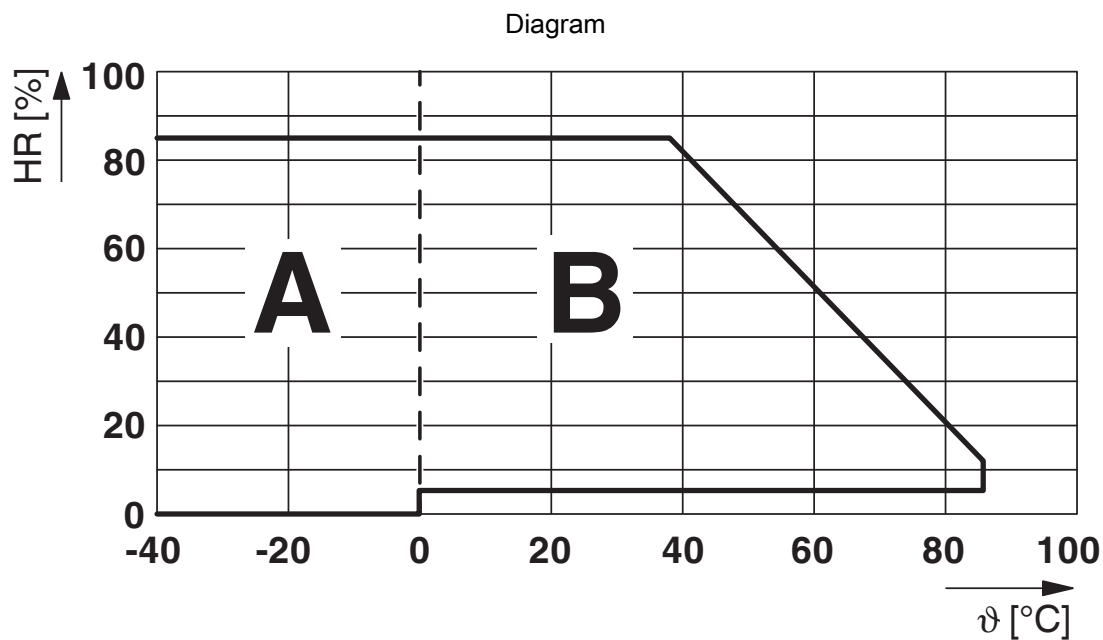
Interrupting rating

Diagram



Service life reduction factor





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  $\leq 25^{\circ}\text{C}$ .

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## 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: RU\*C-DE.\*08.B.00010



**VDE approval of drawings**  
Approval ID: 40058034

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## Classifications

### ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

### ETIM

ETIM 9.0	EC001437
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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### EF3.0 Climate Change

CO2e kg	0.201 kg CO2e
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## 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



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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



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## 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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