

1109558

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Plug-in industrial relay in basic design with power contacts, 4 changeover contacts, test button, status LED, mechanical switch position indicator, polarity A1+, A2-, input voltage: 48 V DC

Commercial data

Item number	1109558
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CKF947
Product key	CKF947
GTIN	4063151021450
Weight per piece (including packing)	31.86 g
Weight per piece (excluding packing)	31 g
Customs tariff number	85364190
Country of origin	AT



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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	3x 10 ⁷ cycles

Insulation characteristics

Insulation	Basic insulation
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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	0.79 W
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	48 V DC
Input voltage range	38.4 V DC 93.6 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U _N	16 mA
Typical response time	15 ms
Typical release time	10 ms
Coil voltage	48 V DC
Status display	Yellow LED
Coil resistance	3.1 kΩ ±10 %



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Output data

Switching

- maining	
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
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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

Mounting

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

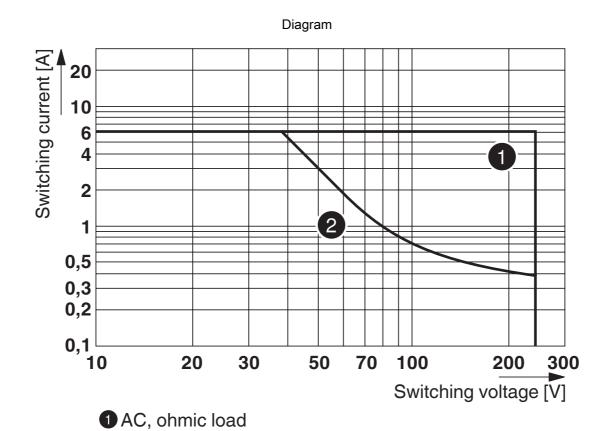
2 DC, ohmic load



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Drawings

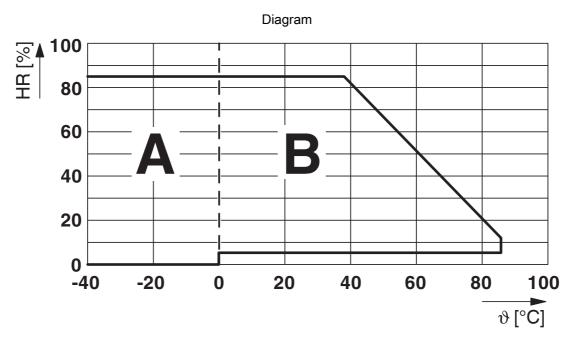


Interrupting rating



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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

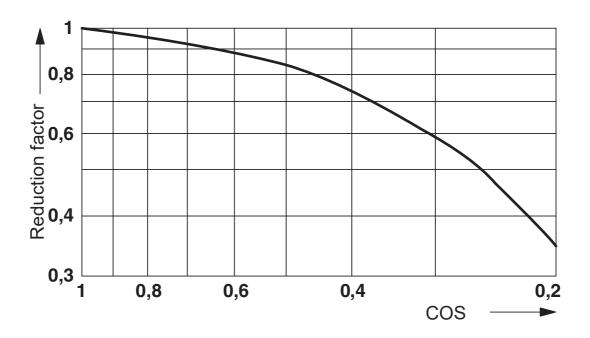
On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature \leq 25°C.



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Diagram

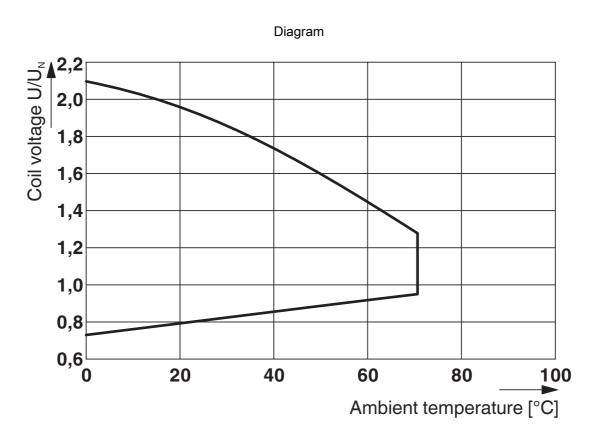


Service life reduction factor

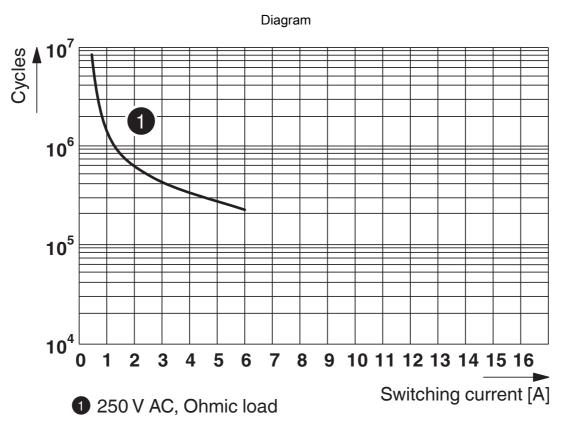


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Operating voltage range



Electrical service life



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1109558



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				
	ETIM 8.0	EC001437		
UNSPSC				
01101 00				

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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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Mandatory accessories

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

2908214

https://www.phoenixcontact.com/gb/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/gb/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

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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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