

1109560

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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: 110 V DC

Commercial data

Item number	1109560
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	DKF947
Product key	DKF947
GTIN	4063151021825
Weight per piece (including packing)	31.028 g
Weight per piece (excluding packing)	29.9 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	3x 10 ⁷ 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
Date of last data management	03.03.2023

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.85 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	110 V DC
Input voltage range	88 V DC 214.5 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U _N	6.9 mA
Typical response time	15 ms
Typical release time	10 ms
Coil voltage	110 V DC
Status display	LED (yellow)



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Coil resistance	16.1 kΩ ±12 %
Output data	
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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)

Connection data

Switching capacity min.

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1500 VA (250 V AC)

120 mW

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
3	

Mounting

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



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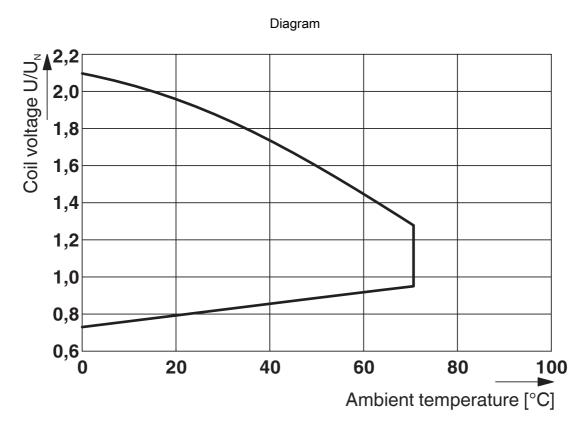
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Drawings

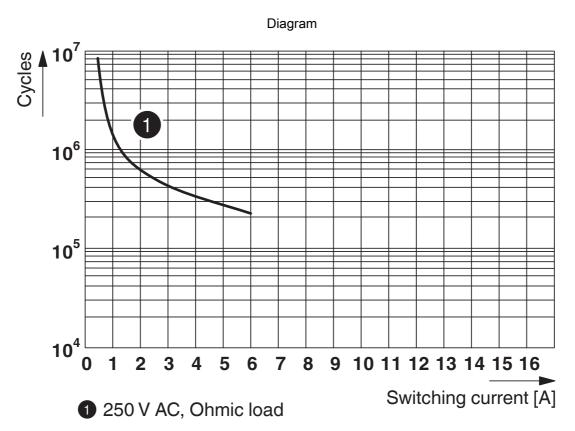


Operating voltage range



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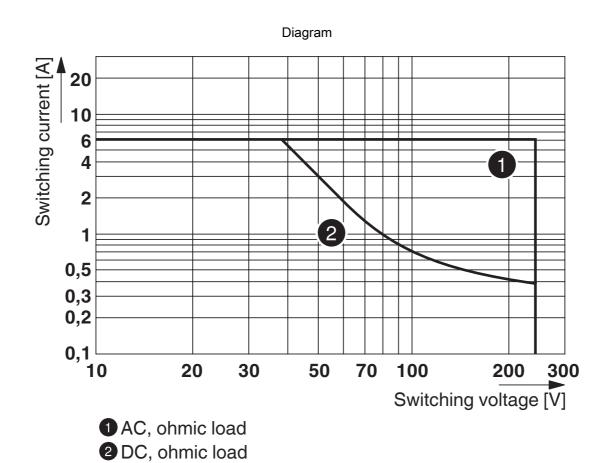


Electrical service life



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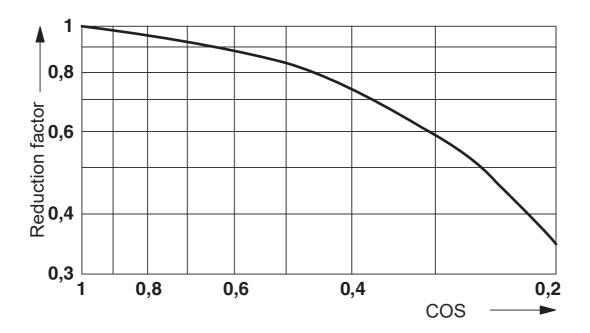
Interrupting rating



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Diagram

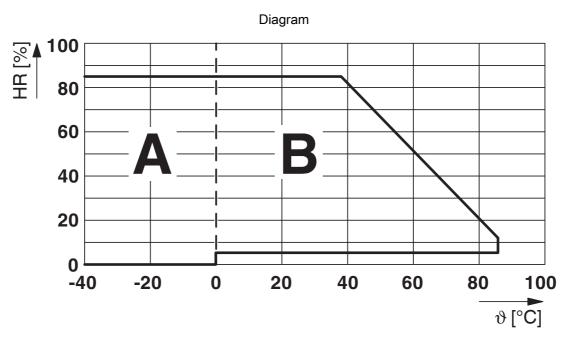


Service life reduction factor



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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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Approvals

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cUL Recognized

Approval ID: FILE E 228652



UL Recognized

Approval ID: FILE E 228652



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		
UNSPSC				
	UNSPSC 21.0	39122300		



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Environmental product compliance

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

2908214

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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

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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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ECOR-2-BSC2/4X21 - Relay base

1089994

https://www.phoenixcontact.com/gb/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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PHOENIX CONTACT Ltd Halesfield 13, Telford Shropshire, TF7 4PG 01952 681700 info@phoenixcontact.co.uk