

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	DKF921
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

Product type	Single relay
Product family	ESSENTIAL edition
Operating mode	100% operating factor
Mechanical service life	1x 10 ⁷ cycles
Insulation characteristics	
Insulation	Basic insulation
Overvoltage category	III
Pollution degree	3
Data management status	
Date of last data management	05.09.2025

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

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)



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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
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Dimensions

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

Material specifications

Color	white (RAL 9010)

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

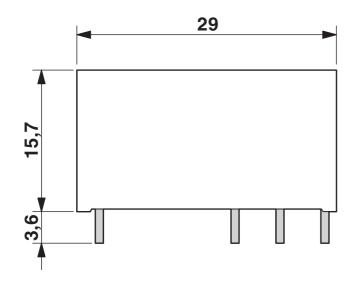


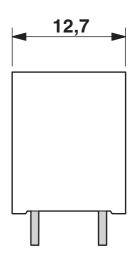
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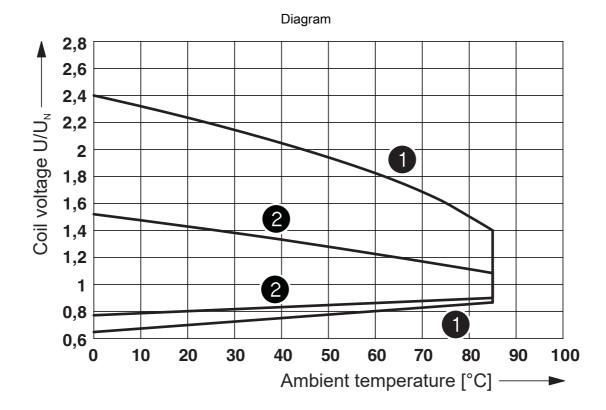
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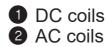
Drawings

Dimensional drawing







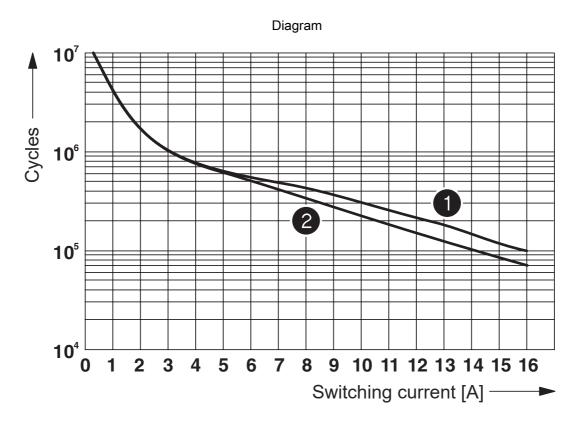


Operating voltage range



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

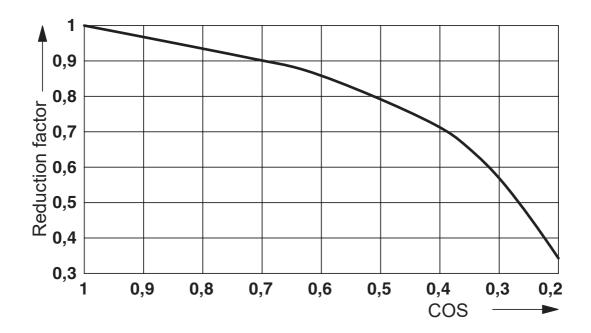
Electrical service life



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Diagram

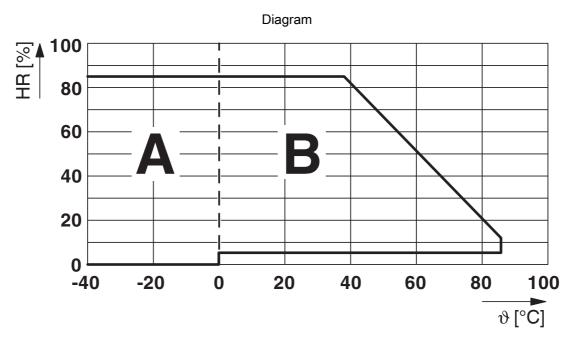


Service life reduction factor with various cos phi



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Permissible humidity for operation and storage.

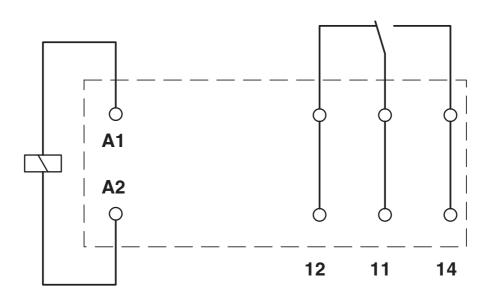
The maximum permissible ambient temperature as specified in the data sheet must be observed.

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.

Circuit diagram

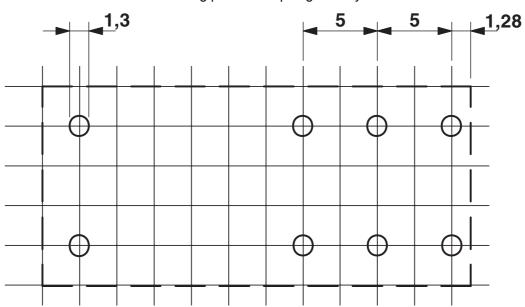




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Basic pitch 2.5 mm



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Approvals

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cUL Recognized

Approval ID: FILE E 228652



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27371601		
	ECLASS-15.0	27371601		
ETIM				
	ETIM 9.0	EC001437		
UNSPSC				

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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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