

2909645

https://www.phoenixcontact.com/us/products/2909645

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 miniature power relay, with multi-layer gold contact, 1 changeover contact, manual operation, 24 V DC input voltage

## Commercial data

Item number	2909645
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	DK6924
GTIN	4055626377803
Weight per piece (including packing)	6.8 g
Weight per piece (excluding packing)	6.8 g
Customs tariff number	85364190
Country of origin	CZ



2909645

https://www.phoenixcontact.com/us/products/2909645

## Technical data

## Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	1x 10 <sup>7</sup> cycles
Insulation characteristics	
Overvoltage category	III
Pollution degree	3
Data management status	
Date of last data management	25.08.2025

## Electrical properties

Maximum power dissipation for nominal condition	0.17 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)

## Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range	14.4 V DC 66 V DC
Input voltage range in reference to $U_N$	see diagram
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U <sub>N</sub>	7 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	3390 Ω ±10 % (at 20 °C)

## Output data

#### Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA (at 24 V)
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Motor load according to UL 508	1/4 HP, 240 - 277 V AC (N/O contact)



2909645

Corrosive gas test

https://www.phoenixcontact.com/us/products/2909645

	1/6 HP, 240 - 277 V AC (N/C contact)
witching: when the gold layer is destroyed	
Note	the following values are applicable if a gold
	layer is destroyed
Contact material	AgSnO
Maximum switching voltage	250 V AC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.1 A (at 220 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 230 V, AC15)
nection data	
Connection method	Plug / solder connection
ensions	
Width	5 mm
Height	28 mm
Depth	16 mm
erial specifications	
Color	white (RAL 9010)
ironmental and real-life conditions	
nbient conditions	
Degree of protection	RT II
Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

ISA-S71.04. G3 Harsh Group

EN 60068-2-60



2909645

https://www.phoenixcontact.com/us/products/2909645

## Standards and regulations

Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1

## Mounting

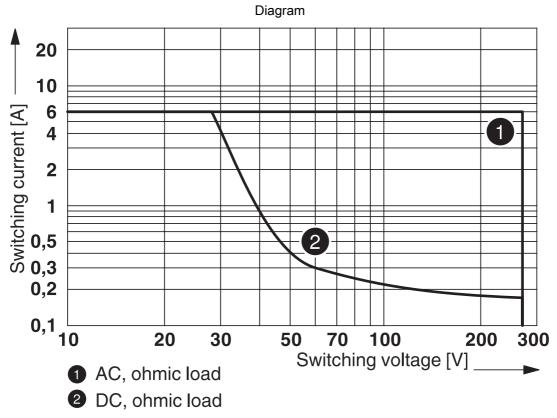
Assembly note	in rows with zero spacing
Mounting position	any



2909645

https://www.phoenixcontact.com/us/products/2909645

## Drawings

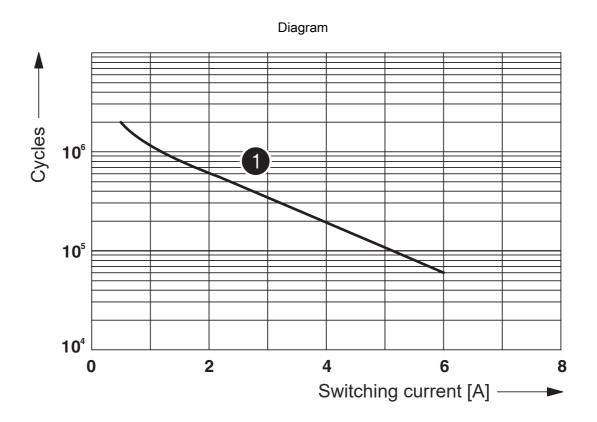


Interrupting rating



2909645

https://www.phoenixcontact.com/us/products/2909645



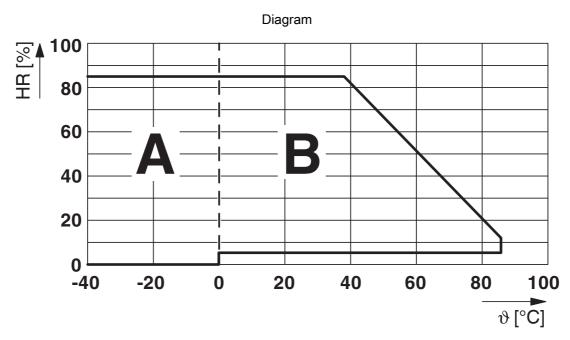
1 250 V AC, ohmic load

Electrical service life



2909645

https://www.phoenixcontact.com/us/products/2909645



Permissible humidity for operation and storage.

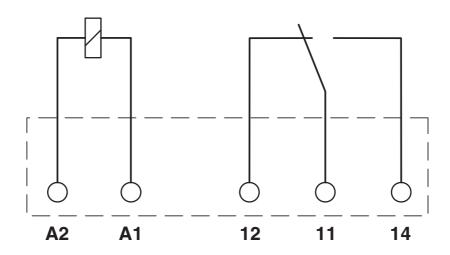
The maximum permissible ambient temperature as specified in the data sheet must be observed.

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

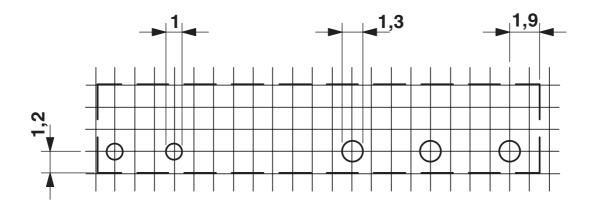




https://www.phoenixcontact.com/us/products/2909645



## Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm



2909645

https://www.phoenixcontact.com/us/products/2909645

## **Approvals**

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2909645



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: 40010212



2909645

https://www.phoenixcontact.com/us/products/2909645

## Classifications

UNSPSC 21.0

### **ECLASS**

	ECLASS-13.0	27371601
	ECLASS-15.0	27371601
ΕT	TIM	
	ETIM 9.0	EC001437
UN	ISPSC	

39122300



2909645

https://www.phoenixcontact.com/us/products/2909645

## 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%

Phoenix Contact 2025 @ - 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