

2908822

https://www.phoenixcontact.com/us/products/2908822

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Plug-in miniature power relay, RT III sealed with power contacts, 1 changeover contact, input voltage: 24 V DC, in connection with the corresponding PLC base approved in accordance with ATEX/IECEx (zone 2) and Ex zone class I, div. 2.

Your advantages

- · Switching current of up to 16 A
- RT III-proof (wash-proof)

Commercial data

Item number	2908822
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK6939
GTIN	4055626345161
Weight per piece (including packing)	15.9 g
Weight per piece (excluding packing)	15.9 g
Customs tariff number	85364190
Country of origin	AT



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Technical data

Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	3x 10 ⁷ cycles
Insulation characteristics	
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	0.41 W
Test voltage (Winding/contact)	5 kV AC (50 Hz, 1 min., winding/contact)

Input data

Coil side

Nominal input voltage U _N	24 V DC
Input voltage range	15.6 V DC 57.6 V DC
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U _N	17 mA
Typical response time	7 ms
Typical release time	3 ms
Coil resistance	1440 Ω ±10 % (at 20 °C)

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		
Contact material AgNi Maximum switching voltage 250 V AC/DC	Contact switching type	1 changeover contact
Maximum switching voltage 250 V AC/DC	Type of switch contact	Single contact
, and the second	Contact material	AgNi
	Maximum switching voltage	250 V AC/DC
Minimum switching voltage 12 V (at 10 mA)	Minimum switching voltage	12 V (at 10 mA)
Limiting continuous current 16 A	Limiting continuous current	16 A
Maximum inrush current 50 A (20 ms)	Maximum inrush current	50 A (20 ms)
Min. switching current 10 mA (at 12 V)	Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max. 384 W (at 24 V DC)	Interrupting rating (ohmic load) max.	384 W (at 24 V DC)
58 W (at 48 V DC)		58 W (at 48 V DC)
48 W (at 60 V DC)		48 W (at 60 V DC)



2908822

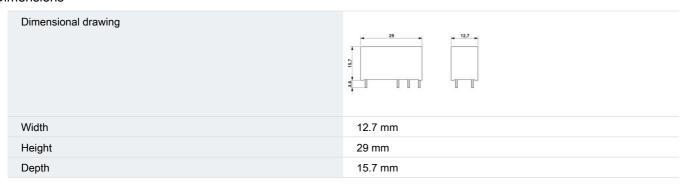
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50 W (at 110 V DC)
80 W (at 220 V DC)
4000 VA (for 250 V AC)
2 A (at 24 V, DC13)
0.2 A (at 110 V, DC13)
0.2 A (at 250 V, DC13)
6 A (at 24 V, AC15)
6 A (at 120 V, AC15)
6 A (at 250 V, AC15)

Connection data

Connection method	Plug / solder connection
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Dimensions



Material specifications

Environmental and real-life conditions

Ambient conditions

Degree of protection	RT III
Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

Approvals

Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Standards and regulations

Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1

Mounting

Assembly note	Can be aligned without spacing (> 70 °C ≥ 2.5 mm)



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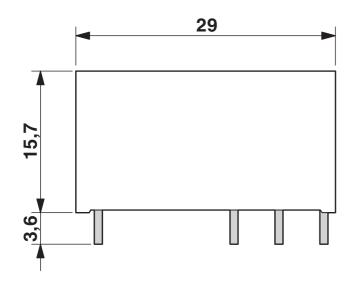


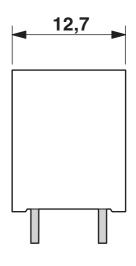
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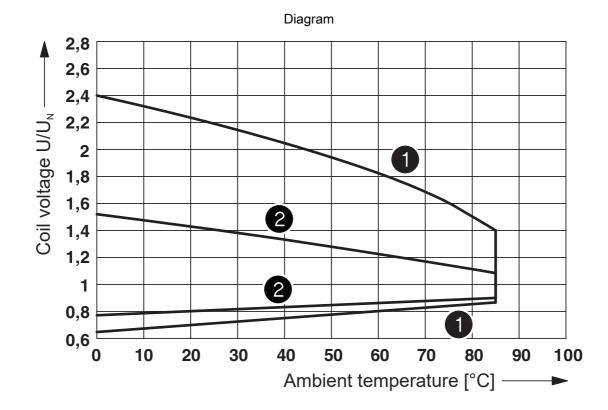


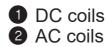
Drawings

Dimensional drawing







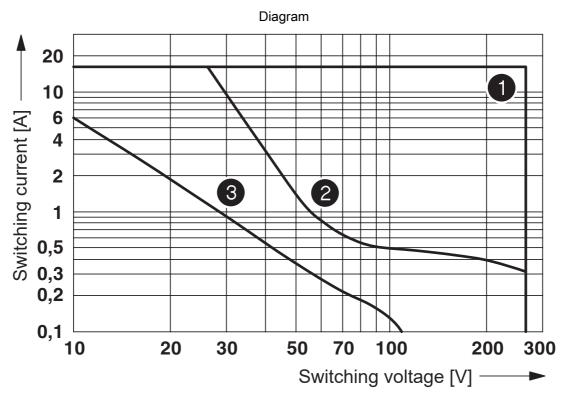


Operating voltage range



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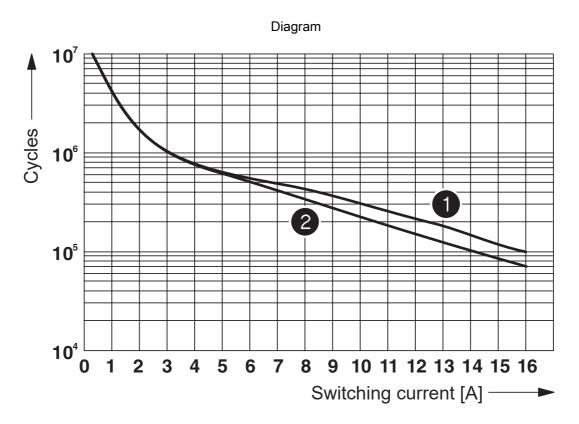
- 1 AC, ohmic load
- 2 DC, ohmic load
- **3** DC, L/R = 40 ms

Interrupting rating



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

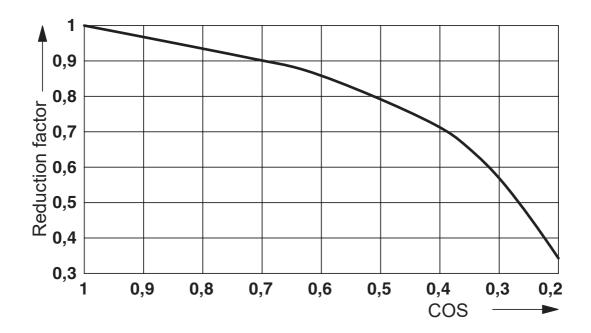
Electrical service life



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Diagram

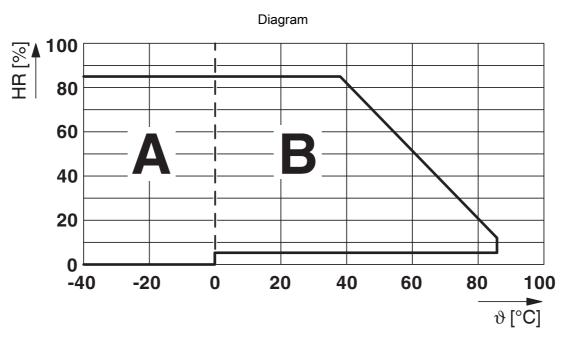


Service life reduction factor with various cos phi



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Permissible humidity for operation and storage.

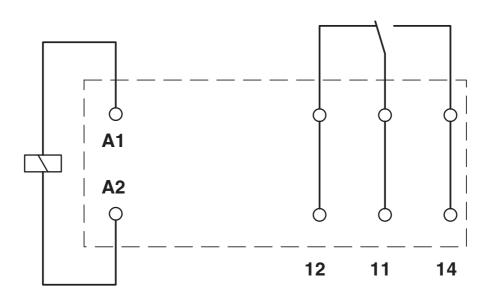
The maximum permissible ambient temperature as specified in the data sheet must be observed.

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

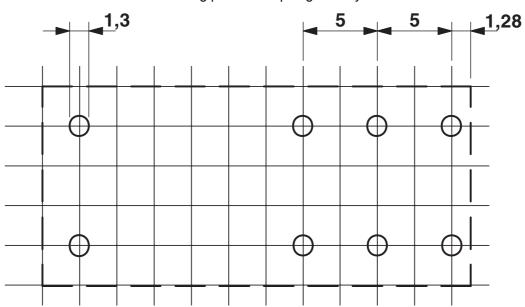




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Basic pitch 2.5 mm



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Approvals

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cUL Recognized

Approval ID: FILE E 228652



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Approval ID: FILE E 228652



EAC

Approval ID: RU*C-DE.*08.B.00010



VDE approval of drawings

Approval ID: 40007758



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Classifications

UNSPSC 21.0

ECLASS

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

39122300



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Environmental product compliance

EU RoHS

20 1010			
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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