

2961163

https://www.phoenixcontact.com/us/products/2961163

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Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage  $12\ V\ DC$ 

### Your advantages

- · Safe isolation between coil and contact side
- High degree of protection up to RT III depending on type (wash-proof)
- · Power contacts up to 6 A

### Commercial data

Item number	2961163
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	DK6922
GTIN	4017918146870
Weight per piece (including packing)	6.58 g
Weight per piece (excluding packing)	6.58 g
Customs tariff number	85364190
Country of origin	CZ



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### Technical data

### Product properties

Product type	Single relay		
Operating mode	100% operating factor		
Mechanical service life	2x 10 <sup>7</sup> cycles		
Insulation characteristics			
Overvoltage category	III		
Pollution degree	3		
Data management status			
Date of last data management	05.09.2025		

### 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>	12 V DC
Input voltage range	7.2 V DC 33 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>	14 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	848 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)

Switching: when the gold layer is destroyed



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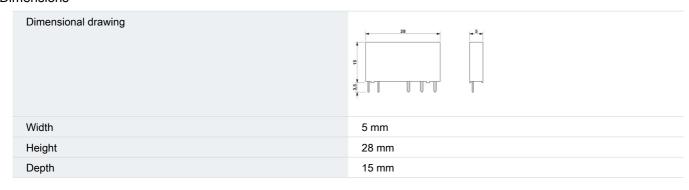


Note	the following values are applicable if a gold layer is destroyed
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	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)

#### Connection data

Connection method	Plug / solder connection
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### **Dimensions**



### Material specifications

Color	white (RAL 9010)

#### 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



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Mounting position

	orrosive 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	in rows with zero spacing	

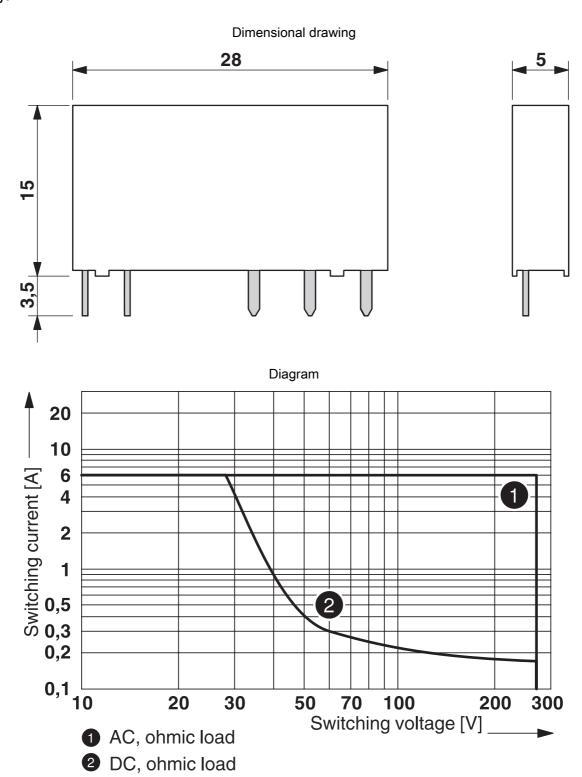
any



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### **Drawings**

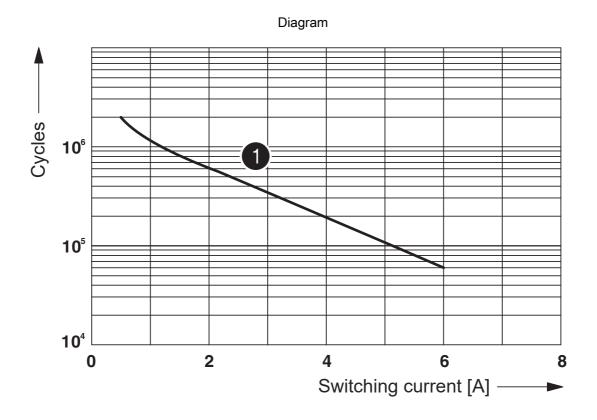


Interrupting rating



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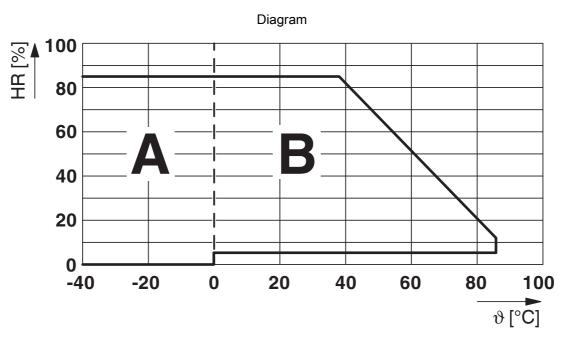
1 250 V AC, ohmic load

Electrical service life



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Permissible humidity for operation and storage.

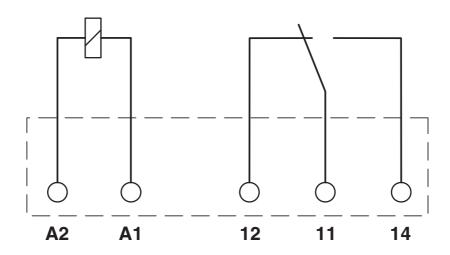
The maximum permissible ambient temperature as specified in the data sheet must be observed.

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

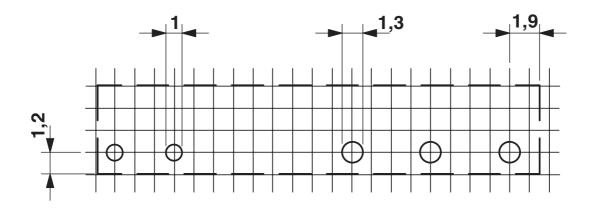




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### Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm



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### Approvals

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Approval ID: FILE E 172140



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Approval ID: FILE E 172140



**EAC** 

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



**UL** Recognized

Approval ID: FILE E 172140



VDE approval of drawings

Approval ID: 40032864



VDE approval of drawings





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VDE approval of drawings

Approval ID: 40010212



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### Classifications

UNSPSC 21.0

### **ECLASS**

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

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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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