

1013727

https://www.phoenixcontact.com/us/products/1013727

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Plug-in miniature relay, with multi-layer contact with hard gold coating, 2 changeover contacts, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2-, input voltage 110 V DC

#### Your advantages

- · With detectable manual operation
- · DC types with integrated freewheeling diode
- · Integrated status LED
- · Mechanical switch position indicator

#### Commercial data

Item number	1013727
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	CK6938
GTIN	4055626492551
Weight per piece (including packing)	18.01 g
Weight per piece (excluding packing)	5.7 g
Customs tariff number	85364900
Country of origin	CN



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#### Technical data

#### Product properties

Product type	Single relay
Mechanical service life	5x 10 <sup>6</sup> cycles
Data management status	
Date of last data management	22.05.2024

#### Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.43 W
Test voltage (Winding/contact)	5 kV AC (50 Hz, 1 min., winding/contact)
Test voltage (Contact/contact)	2.5 kV AC (50 Hz, 1 min., contact/contact)

#### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	110 V DC
Input voltage range	88 V DC 242 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U <sub>N</sub>	3.6 mA
Typical response time	9 ms
Typical release time	6 ms

#### Output data

#### Switching

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	12 V (At 1 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA (at 12 V)
Motor load according to UL 508	1/4 HP, 120 V AC (N/O contact)
	1/2 HP, 240 V AC (N/O contact)

#### Switching: when the gold layer is destroyed

Note	the following values are applicable if a gold
	layer is destroyed



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Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Limiting continuous current	8 A
Maximum inrush current	16 A (20 ms)
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	2000 VA (for 250 V AC)
Switching capacity	1 A (at 24 V, DC13)
	1.5 A (at 24 V, AC15)
	1.5 A (at 120 V, AC15)
	1.5 A (at 240 V, AC15)

#### Connection data

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

Dimensional drawing	29 - 12,7 -
Width	12.7 mm
Height	29 mm
Depth	25 mm

#### Environmental and real-life conditions

#### Ambient conditions

Ambient temperature (operation)	-40 °C 70 °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

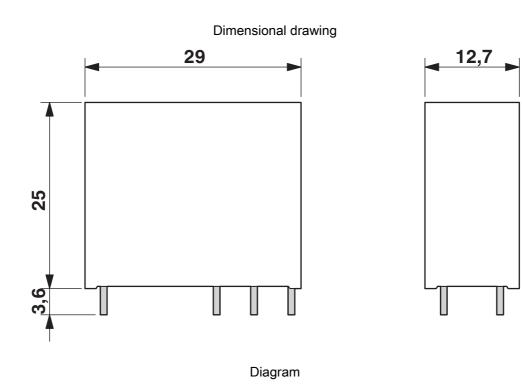
Standards/regulations	EN 61810-1
	VDE 0435-201
	EN 50178

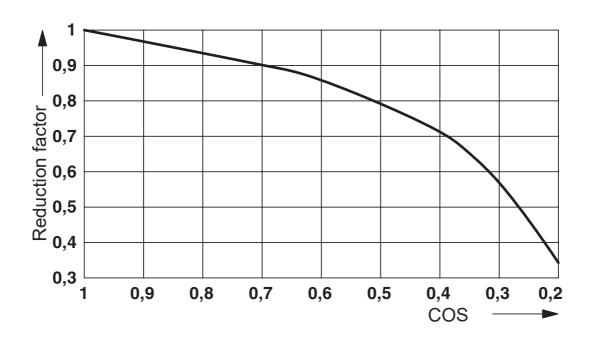


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### Drawings



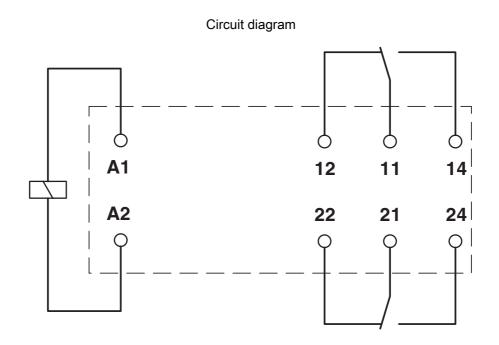


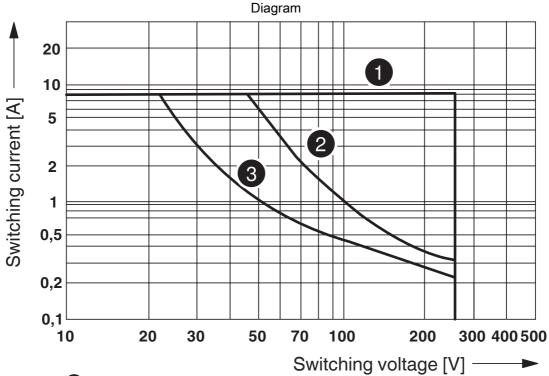
Service life reduction factor with various cos phi



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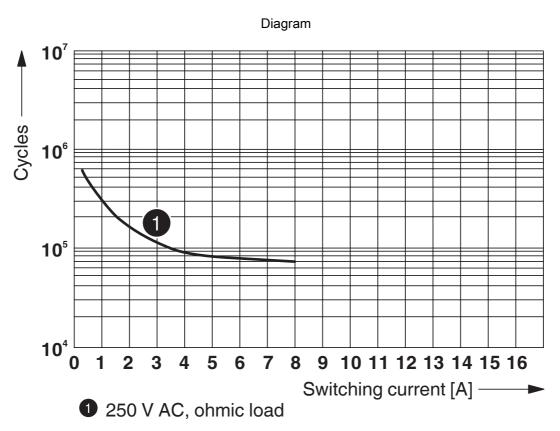
- 1 AC, ohmic load
- 2 DC, ohmic load, contacts in series
- 3 DC, ohmic load

Interrupting rating

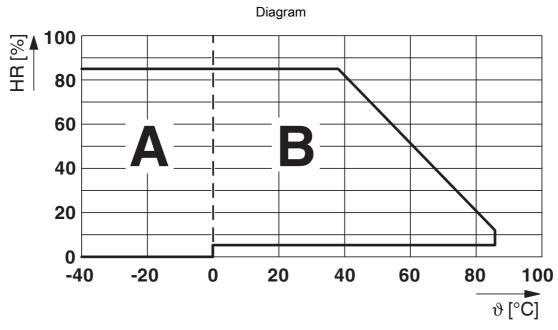


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Electrical service life



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

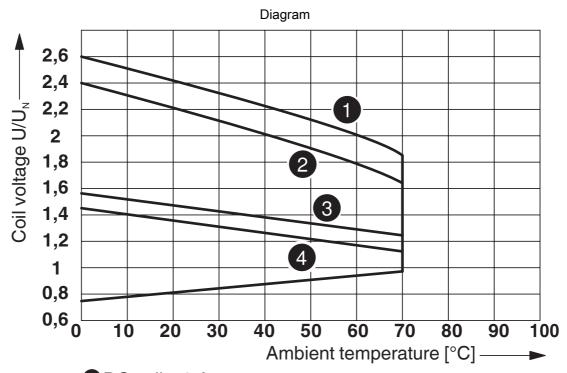
Area B: Condensation at ambient temperatures >  $0^{\circ}$ C must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature ≤ 25°C.



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- **1** DC coils, 0 A contact current
- 2 DC coils, 8 A contact current
- 3 AC coils, 0 A contact current
- 4 AC coils, 8 A contact current

Operating voltage range



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### **Approvals**

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1013727



cUL Recognized

Approval ID: FILE E 172140



**UL Recognized** 

Approval ID: FILE E 172140



EAC

Approval ID: TR\_TS\_D\_00573\_c



**EAC** 

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

cULus Recognized



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### Classifications

UNSPSC 21.0

#### **ECLASS**

ECLASS-11.0	27371601	
ECLASS-12.0	27371601	
ECLASS-13.0	27371601	
ETIM		
ETIM 9.0	EC001437	
UNSPSC		

39122300



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### Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes		
Exemption	7(c)-l		
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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