

2961121

https://www.phoenixcontact.com/pc/products/2961121

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Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 24 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	2961121
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	08
Product key	DK6922
Catalog page	Page 284 (C-5-2019)
GTIN	4017918130879
Weight per piece (including packing)	6.92 g
Weight per piece (excluding packing)	6.525 g
Customs tariff number	85364900
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 ⁷ cycles	
Insulation characteristics		
Overvoltage category	III	
Pollution degree	3	
Data management status		
Date of last data management	02.05.2024	
Electrical properties		

ΕI

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 _N	24 V DC
Input voltage range	14.4 V DC 66 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	see diagram
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U _N	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)

Switching: when the gold layer is destroyed



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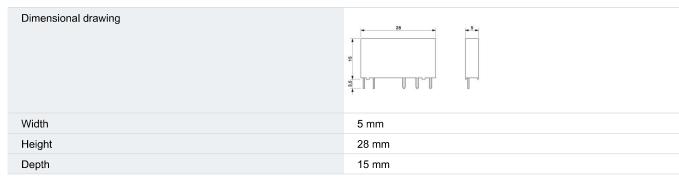
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Note	the following values are applicable if a gold layer is destroyed
Contact material	AgSnO
Maximum switching voltage	250 V AC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Min. switching current	10 mA (at 12 V)
Interrupting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

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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Corrosive gas test

Mounting position

Concorve 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

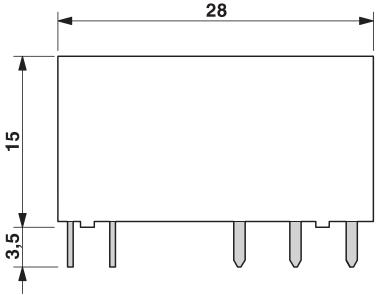


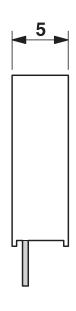
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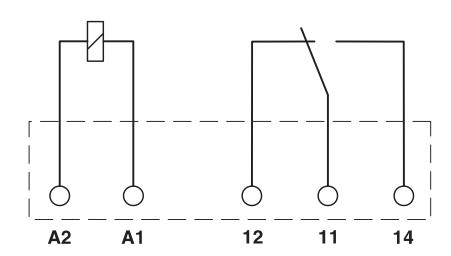
Drawings

Dimensional drawing





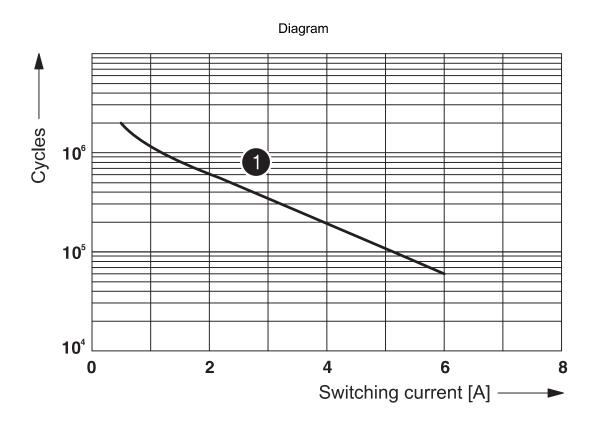
Circuit diagram





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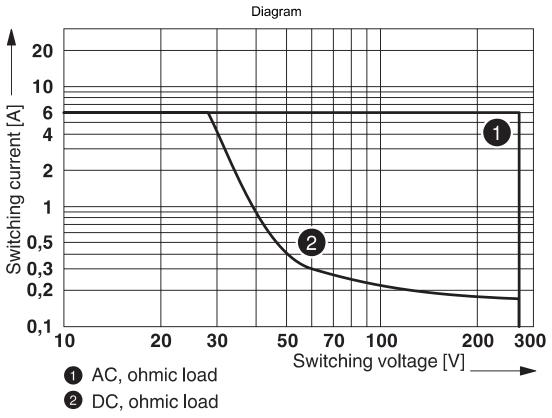
1 250 V AC, ohmic load

Electrical service life



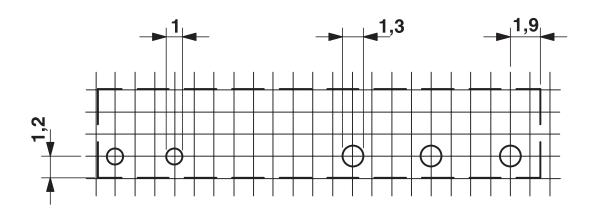
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Interrupting rating

Drilling plan/solder pad geometry

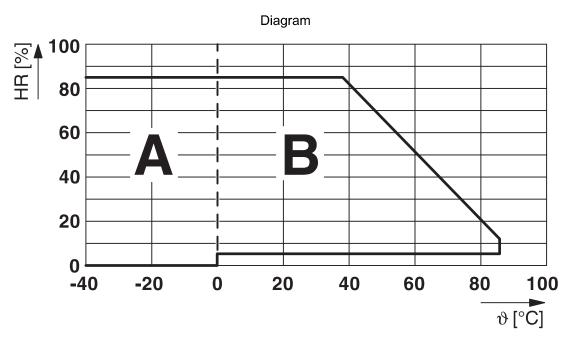


a = pitch division 1.25 mm and 1.27 mm



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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 ≤ 25°C.



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Approval ID: FILE E 172140



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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 Approval ID: 40054426



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Approval ID: FILE E 172140



VDE approval of drawings

Approval ID: 40010212



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Classifications

ECLASS

	ECLASS-11.0	27371601
	ECLASS-12.0	27371601
	ECLASS-13.0	27371601
ET	ТМ	
	ETIM 9.0	EC001437

UNSPSC

UNSPSC 21.0	39122300



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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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