

https://www.phoenixcontact.com/au/products/2961105



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Plug-in miniature power relay, with power 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	2961105
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	DK6921
Product key	DK6921
Catalog page	Page 284 (C-5-2019)
GTIN	4017918130893
Weight per piece (including packing)	6.71 g
Weight per piece (excluding packing)	5 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	19.03.2025

#### 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 $\mathbf{U}_{\mathbf{N}}$	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  Maximum switching voltage 250 V AC/DC  Minimum switching voltage 5 V (at 100 mA)  Limiting continuous current 6 A		
Contact material AgSnO  Maximum switching voltage 250 V AC/DC  Minimum switching voltage 5 V (at 100 mA)  Limiting continuous current 6 A	Contact switching type	1 changeover contact
Maximum switching voltage 250 V AC/DC  Minimum switching voltage 5 V (at 100 mA)  Limiting continuous current 6 A	Type of switch contact	Single contact
Minimum switching voltage 5 V (at 100 mA)  Limiting continuous current 6 A	Contact material	AgSnO
Limiting continuous current 6 A	Maximum switching voltage	250 V AC/DC
	Minimum switching voltage	5 V (at 100 mA)
40.4 (4.2)	Limiting continuous current	6 A
Maximum inrush current 10 A (4 s)	Maximum inrush current	10 A (4 s)
Min. switching current 10 mA (at 12 V)	Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max. 140 W (at 24 V DC)	Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
20 W (at 48 V DC)		20 W (at 48 V DC)
18 W (at 60 V DC)		18 W (at 60 V DC)



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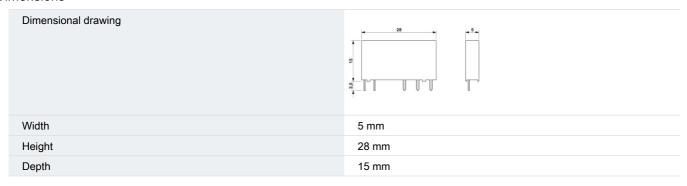


	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.1 A (at 220 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 230 V, AC15)
Motor load according to UL 508	1/4 HP, 240 - 277 V AC (N/O contact)
	1/6 HP, 240 - 277 V AC (N/C contact)

#### 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

#### Standards and regulations

Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1

#### Mounting

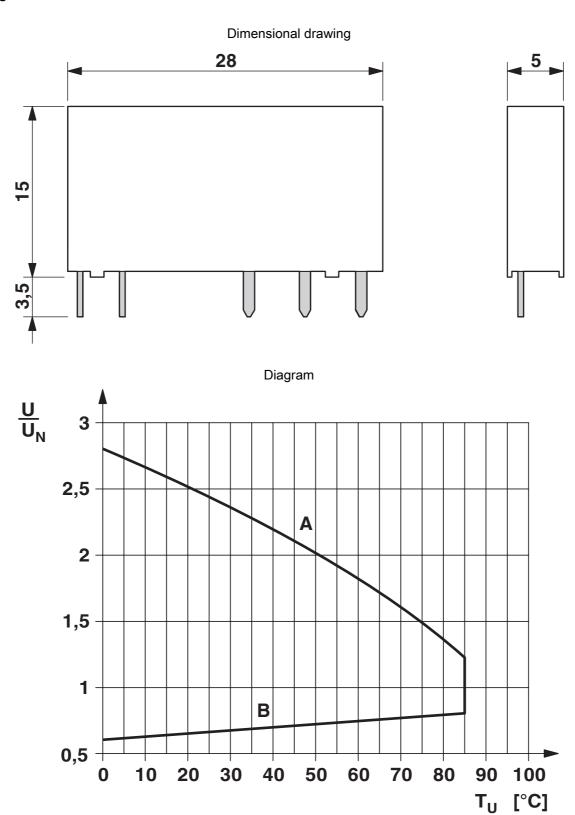
Assembly note	in rows with zero spacing
Mounting position	any



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### Drawings

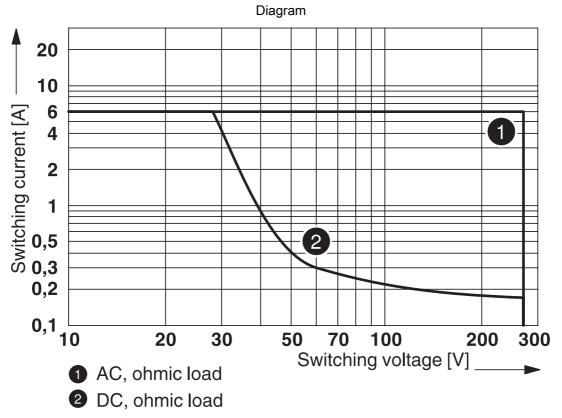


Operating voltage range



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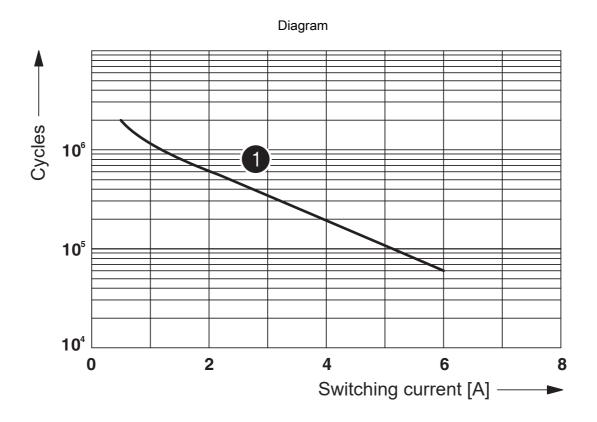


Interrupting rating



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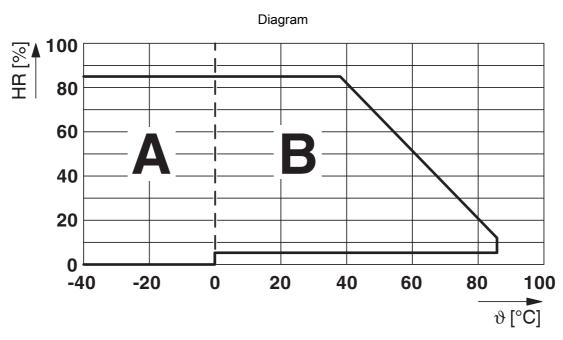
1 250 V AC, ohmic load

Electrical service life



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Permissible humidity for operation and storage.

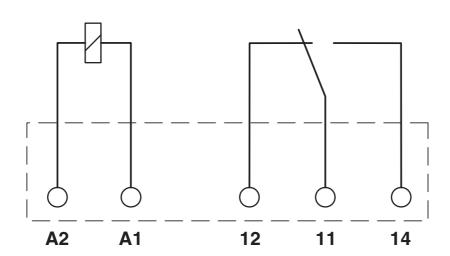
The maximum permissible ambient temperature as specified in the data sheet must be observed.

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

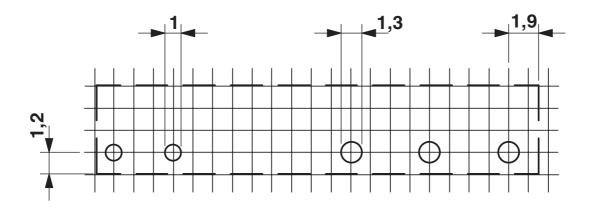


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#### Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm



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#### Approvals

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cUL Recognized

Approval ID: FILE E 172140



**UL Recognized** 

Approval ID: FILE E 172140



**EAC** 

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



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VDE approval of drawings

Approval ID: 40032864



VDE approval of drawings

Approval ID: 40054426



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VDE approval of drawings

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### Classifications

	ECLASS-13.0	27371601	
ETIM			
	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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