

https://www.phoenixcontact.com/us/products/2961341



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Pluggable miniature power relay, with power contact for high switch-on currents up to 130 A peaks, 1 N/O 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 16 A

### Commercial data

Item number	2961341
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	DK6931
GTIN	4017918187569
Weight per piece (including packing)	16.1 g
Weight per piece (excluding packing)	12.815 g
Customs tariff number	85364900
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 <sup>7</sup> cycles
Insulation characteristics	
Insulation characteristics Insulation	Safe isolation, reinforced insulation
	Safe isolation, reinforced insulation

### Data management status

Date of last data management	19.03.2025
Date of last data management	13.03.2023

### Electrical properties

Maximum power dissipation for nominal condition	0.41 W
Test voltage (Winding/contact)	5 kV AC (50 Hz, 1 min., winding/contact)
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV

### Input data

### Coil side

Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range	19.2 V DC 54 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>	17 mA
Typical response time	8 ms
Typical release time	3 ms
Coil resistance	1440 Ω ±10 % (20 °C)

### Output data

### Switching

Contact switching type	1 N/O contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (100 mA)
Limiting continuous current	16 A
Maximum inrush current	80 A (20 ms)
	130 A (peak, at capacitive load, 230 V AC, 24 μF)



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Min. switching current	100 mA (at 12 V DC)
Interrupting rating (ohmic load) max.	384 W (at 24 V DC)
	58 W (at 48 V DC)
	48 W (at 60 V DC)
	50 W (at 110 V DC)
	80 W (at 220 V DC)
	4000 VA (for 250 V AC)
Switching capacity min.	1200 mW
Switching capacity	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)
Motor load according to UL 508	1/2 HP, 120 V AC (N/O contact)
	1 HP, 250 V AC (N/O contact)

### Connection data

### **Dimensions**

Dimensional drawing	29 12.7
Width	12.7 mm
Height	29 mm
Depth	15.7 mm

## Material specifications

Color	white (RAL 9010)
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### Environmental and real-life conditions

### Ambient conditions

Degree of protection	RT II
Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 2000 m

### Approvals

### Corrosive gas test

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



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## Standards and regulations

Standards/regulations	EN 50178
	EN 61810-1

## Mounting

Mounting type	Plug-in mounting
Assembly note	Can be aligned without spacing (> 70 °C ≥ 2.5 mm)
Mounting position	any

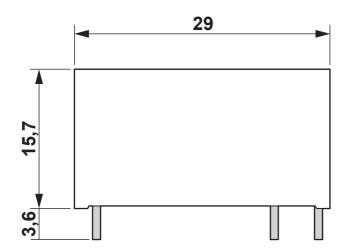


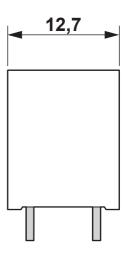
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## Drawings

### Dimensional drawing

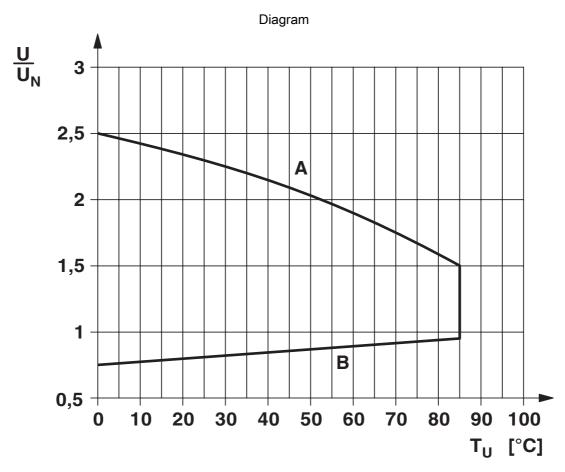






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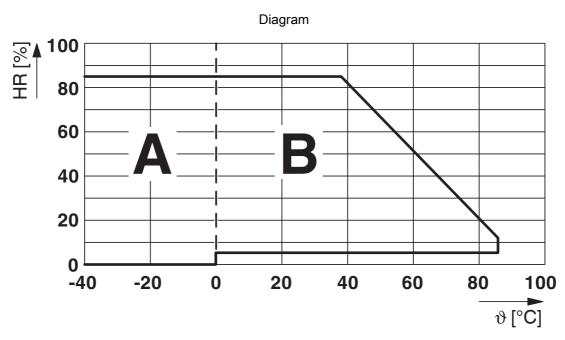
 $\label{eq:curve} \textbf{Curve A} \\ \textbf{Maximum permissible continuous voltage } \textbf{U}_{\text{max}} \text{ with limiting continuous current on the contact side (see relevant technical data)} \\ \textbf{Curve B} \\$ 

Minimum permissible operate voltage  $U_{\mathrm{op}}$  after pre-excitation (see relevant technical data)



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Permissible humidity for operation and storage.

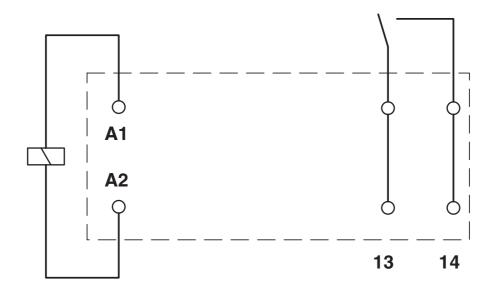
The maximum permissible ambient temperature as specified in the data sheet must be observed.

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

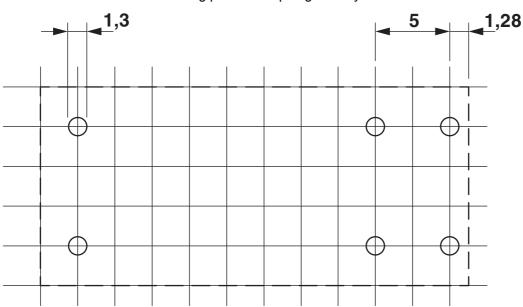




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a = pitch division 2.5 mm



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## **Approvals**

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2961341



#### cUL Recognized

Approval ID: FILE E 228652



### **UL Recognized**

Approval ID: FILE E 228652



#### EAC

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



## VDE Zeichengenehmigung

Approval ID: 40048281



### cULus Recognized

Approval ID: E172140



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## Classifications

### **ECLASS**

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

### **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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