#### 2987338

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Pluggable miniature power relay, with tungsten pre-contact for high switch-on currents up to 800 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	2987338
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	CK6931
GTIN	4046356491112
Weight per piece (including packing)	16.95 g
Weight per piece (excluding packing)	16.95 g
Customs tariff number	85364190
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
Data management status	
Date of last data management	02.05.2024
Article revision	00
Insulation characteristics Insulation	Safe isolation, reinforced insulation
Overvoltage category	III
Pollution degree	3
ectrical properties	
Maximum power dissipation for nominal condition	0.41 W
Test voltage (Winding/contact)	5 kV AC (50 Hz, 1 min., winding/contact)

Maximum power dissipation for nominal condition	0.11 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 ${\rm U}_{\rm N}$	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	165 A (20 ms)

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	800 A (200 μs)
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)

### Connection data

Connection method Plug / solder connection

#### Dimensions

Dimensional drawing	
Width	12.7 mm
Height	29 mm
Depth	15.7 mm

### Material specifications

### 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	
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

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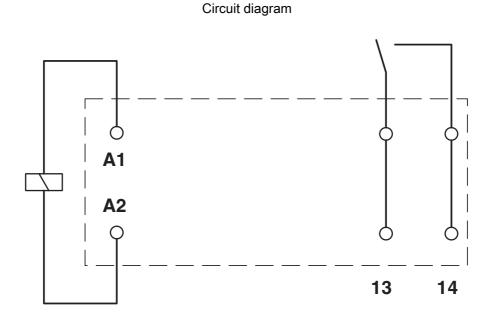
### Standards and regulations

	Standards/regulations	EN 50178
		EN 61810-1
Mc	punting	
	Mounting type Assembly note	Plug-in mounting
		Can be aligned without spacing (> 70 $^{\circ}C \ge 2.5 \text{ mm}$ )
	Mounting position	any

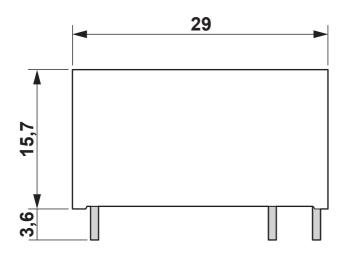
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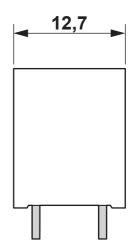
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## Drawings



### Dimensional drawing



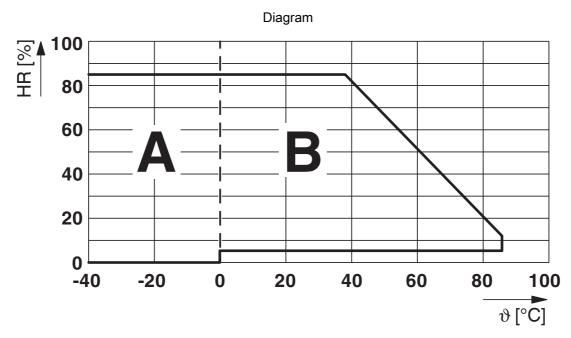


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Permissible humidity for operation and storage.

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

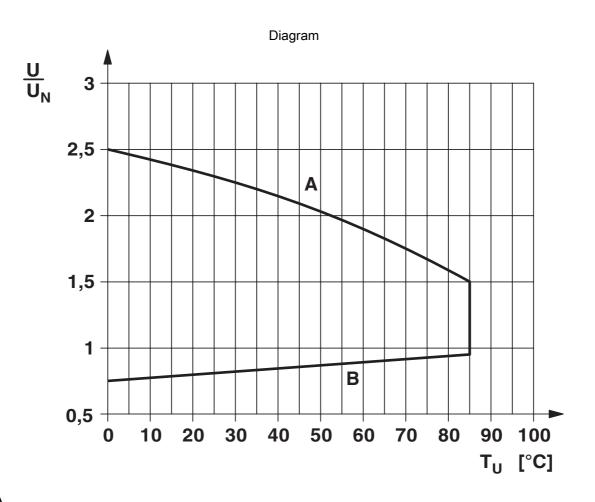
Area A: Ice buildup at ambient temperatures  $\leq 0^{\circ}$ C must be prevented Area B: Condensation at ambient temperatures > 0°C must be prevented

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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### Curve A

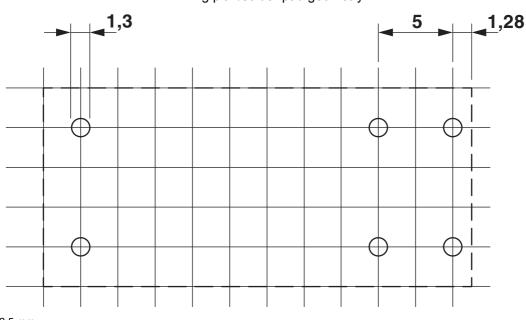
Maximum permissible continuous voltage  $U_{max}$  with limiting continuous current on the contact side (see relevant technical data) Curve B

Minimum permissible operate voltage U<sub>op</sub> after pre-excitation (see relevant technical data)



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Drilling plan/solder pad geometry

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/2987338

17:	CUL Recognized Approval ID: FILE E 228652
91	UL Recognized Approval ID: FILE E 228652
r nr	EAC
EAC	Approval ID: RU*C-DE.*08.B.00010
	VDE Zeichengenehmigung Approval ID: 40007758
cU	JLus Recognized

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### Classifications

#### ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601

### ETIM

	ETIM 9.0	EC001437		
UN	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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