

1081618

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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: 110 V DC

### Your advantages

- Safe isolation according to DIN EN 50178 between coil and contact
- High degree of protection up to RT III depending on type (wash-proof)
- Power contacts up to 16 A

#### Commercial data

Item number	1081618
Packing unit	1 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	CK6195
GTIN	4055626810027
Weight per piece (including packing)	6.5 g
Weight per piece (excluding packing)	6.5 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	Safe isolation, reinforced insulation
Insulation characteristics	
Insulation	Safe isolation, reinforced insulation
Overvoltage category	III
Pollution degree	3

#### Electrical properties

Maximum power dissipation for nominal condition	0.42 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>	110 V DC
Input voltage range	88 V DC 247.5 V DC
Input voltage range in reference to U <sub>N</sub>	see diagram
Drive and function	monostable
Typical input current at U <sub>N</sub>	3.8 mA
Typical response time	8 ms
Typical release time	3 ms
Coil resistance	28880 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)
	800 A (200 µs)
Min. switching current	100 mA (at 12 V DC)



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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

#### Connection data

Connection method	Plug / solder connection

#### **Dimensions**

1081618

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

#### 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

EN 600	068-2-60

### Standards and regulations

Standards/regulations	EN 50178
	EN 61810-1

#### Mounting

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

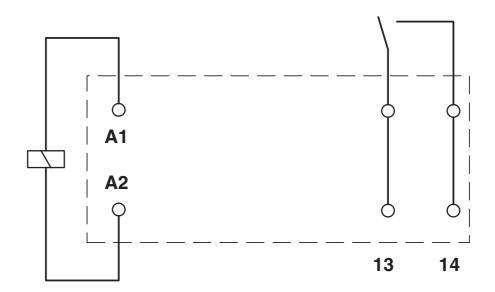


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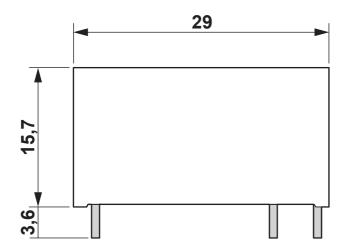


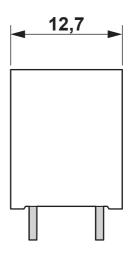
## Drawings

#### Circuit diagram



### Dimensional drawing



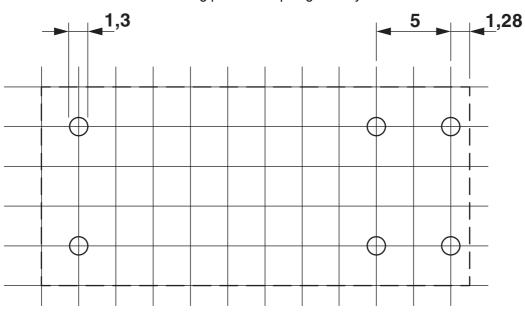




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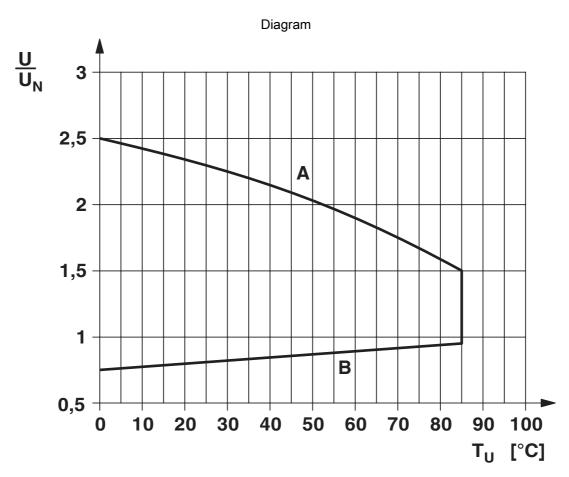


a = pitch division 2.5 mm



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



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## Classifications

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	ECLASS-11.0	27371601		
ETIM				
	ETIM 8.0	EC001437		
UNSPSC				
	UNSPSC 21.0	39122300		



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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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