

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 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	1081618
Packing unit	1 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

Single relay		
100% operating factor		
3x 10 ⁷ cycles		
08.04.2024		
00		
Insulation characteristics		
Safe isolation, reinforced insulation		
III		
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_N	110 V DC
Input voltage range	88 V DC 247.5 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	see diagram
Drive and function	monostable
Typical input current at U _N	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)



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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

Connection data

Connection method	Plug / solder connection
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Dimensions

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

Material specifications

Color	white (RAL 9010)

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

Standards and regulations

Standards/regulations	EN 50178
	EN 61810-1

Mounting

Mounting type	Plug-in mounting
Thread type	()



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Assembly note	Can be aligned without spacing (> 70 °C ≥ 2.5 mm)
Mounting position	any

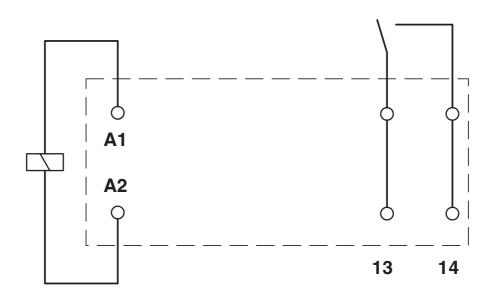


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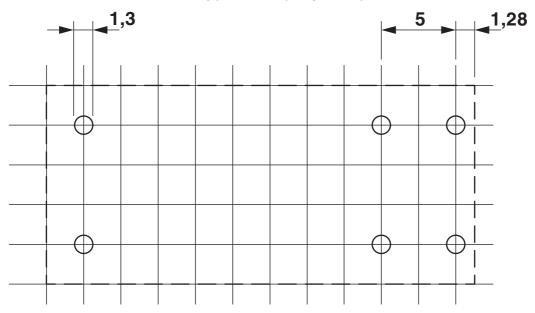


Drawings

Circuit diagram



Drilling plan/solder pad geometry



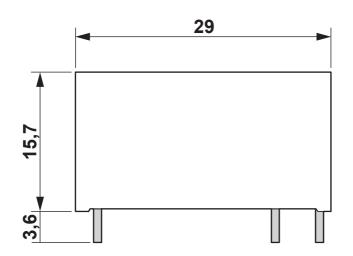
a = pitch division 2.5 mm

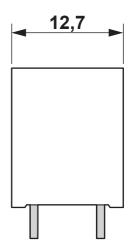


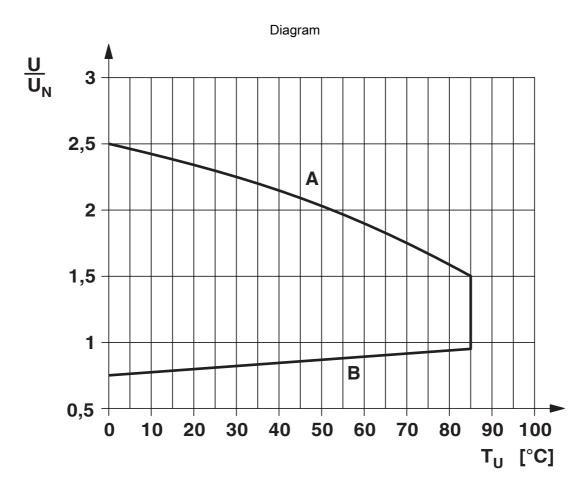
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Dimensional drawing







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_{op} after pre-excitation (see relevant technical data)



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Classifications

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		A.7.7

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



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Environmental product compliance

EU RoHS

LO NOTIO				
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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