

2961163

https://www.phoenixcontact.com/gb/products/2961163

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Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage $12\ V\ DC$

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	2961163
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CK6195
Product key	CK6195
Catalog page	Page 284 (C-5-2019)
GTIN	4017918146870
Weight per piece (including packing)	6.58 g
Weight per piece (excluding packing)	6.58 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 ⁷ cycles		
Insulation characteristics			
Overvoltage category	III		
Pollution degree	3		

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 _N	12 V DC
Input voltage range	7.2 V DC 33 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 _N	14 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	848 Ω ±10 % (at 20 °C)

Output data

Switching

1 changeover contact
Single contact
AgSnO, hard gold-plated
30 V AC
36 V DC
100 mV (at 10 mA)
50 mA
50 mA
1 mA (at 24 V)
1.2 W (at 24 V DC)

Switching: when the gold layer is destroyed

Note	the following values are applicable if a gold
	layer is destroyed



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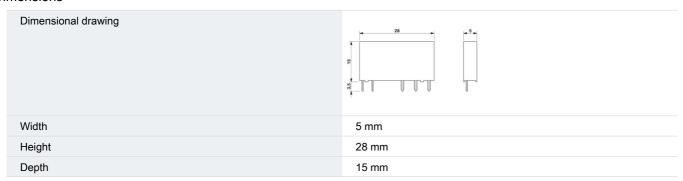


Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 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)

Connection data

Connection method	Plug / solder connection
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Dimensions



Material specifications

Color	white (RAL 9010)
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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

Approvals

Corrosive gas test

Identification ISA-S71.04. G3	Harsh Group



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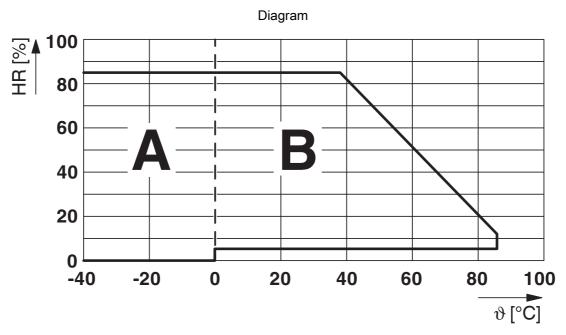
		EN 60068-2-60
Standards and regulations		
	Standards/regulations	IEC 60664
		EN 50178
		EN 61810-1
Mounting		
Assembly instructions	Assembly instructions	in rows with zero spacing
	Mounting position	any



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Drawings



Permissible humidity for operation and storage.

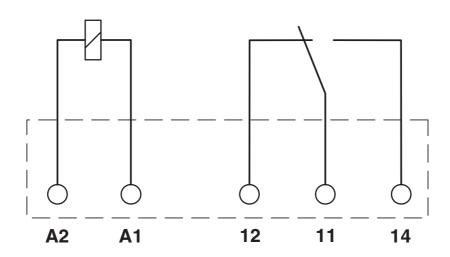
The maximum permissible ambient temperature as specified in the data sheet must be observed.

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 ≤ 25°C.

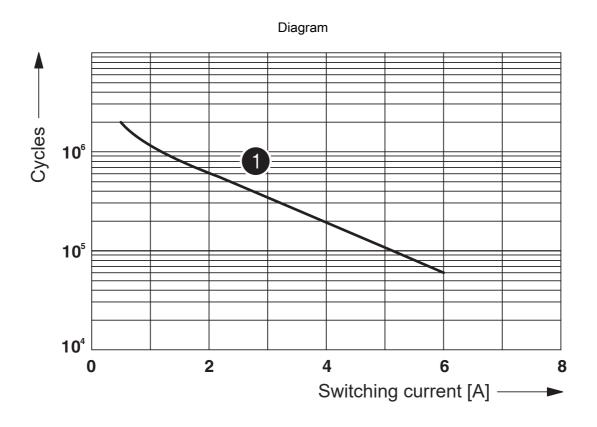
Circuit diagram





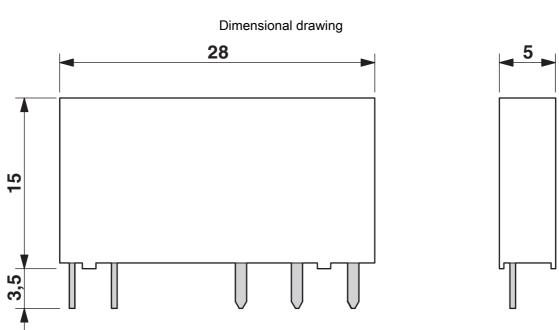
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1 250 V AC, ohmic load

Electrical service life

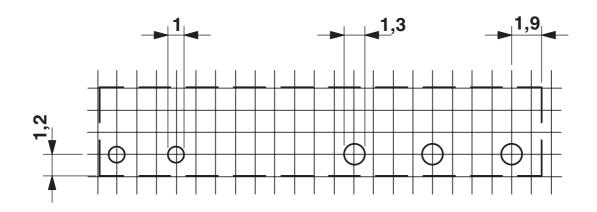




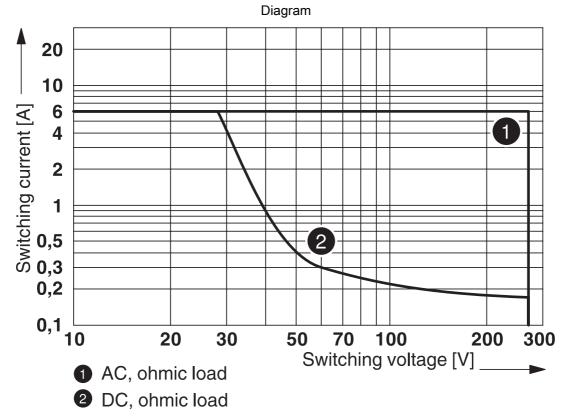
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Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm



Interrupting rating



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Approvals

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cUL Recognized

Approval ID: FILE E 172140



UL RecognizedApproval ID: FILE E 172140



EAC

Approval ID: TR_TS_D_00573_c



UL Recognized

Approval ID: FILE E 172140



AC

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



VDE Zeichengenehmigung Approval ID: 40010212



VDE Zeichengenehmigung

Approval ID: 40032864



cUL Recognized

Approval ID: FILE E 172140



VDE Zeichengenehmigung

Approval ID: 40054426



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Classifications

ECLASS

	ECLASS-11.0	27371601	
	ECLASS-12.0	27371601	
	ECLASS-13.0	27371601	
ETIM			
2110			
	ETIM 9.0	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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Mandatory accessories

RIF-0-BPT/21 - Relay base

2900958

https://www.phoenixcontact.com/gb/products/2900958



Relay base RIF-0..., for miniature power relay with 1 changeover contact or solid-state relays of the same design, Push-in connection, for mounting on NS 35/7 5

RIF-0-BSC/21 - Relay base

2900957

https://www.phoenixcontact.com/gb/products/2900957



RIF-0... relay base, for miniature power relay with 1 changeover contact or identical solid-state relays, screw connection, for mounting on NS 35/7,5

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