

2961503

https://www.phoenixcontact.com/us/products/2961503

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Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 changeover contact, input voltage 24 V AC

Your advantages

- RT III-proof (wash-proof)
- Switching current of up to 16 A

Commercial data

Item number	2961503
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	CK6195
Catalog page	Page 290 (C-5-2019)
GTIN	4017918937904
Weight per piece (including packing)	14.93 g
Weight per piece (excluding packing)	14.93 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	1x 10 ⁷ cycles	
Insulation characteristics		
Overvoltage category	III	
Pollution degree	3	

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.77 W
Test voltage (Winding/contact)	5 kV AC (50 Hz, 1 min., winding/contact)

Input data

Coil side

Nominal input voltage $\mathbf{U}_{\mathbf{N}}$	24 V AC
Input voltage range	18.72 V AC 37.2 V AC
Mains frequency	50/60 Hz
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U _N	32 mA (at 50 Hz)
	24 mA (At 60 Hz)
Typical response time	3 ms 12 ms (depending on phase relation)
Typical release time range	2 ms 9 ms (depending on phase relation)
Coil resistance	350 Ω ±10 % (at 20 °C)

Output data

Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgNi, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA (at 24 V)
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Switching capacity	2 A (at 24 V, AC15)



2961503

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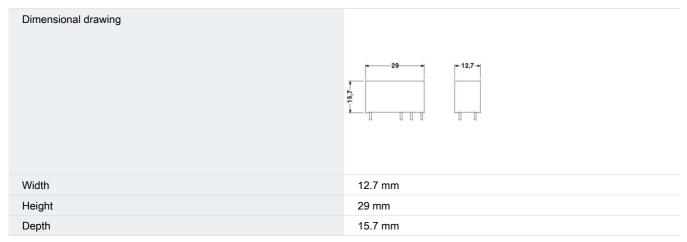
Switching: when the gold layer is destroyed

Note	the following values are applicable if a gold layer is destroyed
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Limiting continuous current	16 A
Maximum inrush current	50 A (20 ms)
Min. switching current	10 mA (at 12 V)
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	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.2 A (at 250 V, DC13)
	2 A (at 24 V, AC15)
	2 A (at 120 V, AC15)
	2 A (at 250 V, AC15)

Connection data

Connection method	Plug / solder connection

Dimensions



Material specifications

Color	white (RAL 9010)

Environmental and real-life conditions

Ambient conditions



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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	
	EN 60068-2-60	
Standards and regulations		
Standards/regulations	IEC 60664	
	EN 50178	
	EN 61810-1	
Mounting		
Assembly instructions	Can be aligned without spacing (> 70 °C ≥ 2.5 mm)	
Mounting position	any	



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Classifications

UNSPSC 21.0

ECLASS

EC	CLASS-11.0	27371601
EC	CLASS-12.0	27371601
EC	CLASS-13.0	27371601
ETIM		
ET	TIM 9.0	EC001437
UNSPSC		

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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