

2982168

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Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 5 V DC, output: 24 - 253 V AC/2 A

## Your advantages

- · Vibration and shock resistant
- RT III-proof (wash-proof)
- · Wear-free and durable
- Switching power of up to 24 V DC/5 A
- · Can be soldered on PCB
- · Zero voltage switch at AC output

## Commercial data

Item number	2982168
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	CK61F3
Catalog page	Page 297 (C-5-2019)
GTIN	4017918996963
Weight per piece (including packing)	10.93 g
Weight per piece (excluding packing)	10.93 g
Customs tariff number	85364190
Country of origin	HU



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## Technical data

## Product properties

Product type	Single solid-state relay
Operating mode	100% operating factor
Insulation characteristics	
Insulation	Basic insulation
Insulation characteristics: Standards/regulations	
Insulation	Basic insulation
Overvoltage category	III

## Electrical properties

Maximum power dissipation for nominal condition	0.08 W
Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)
Standards/regulations	
Rated insulation voltage	250 V AC

## Input data

Nominal input voltage $U_N$	5 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	0.8 1.2
Input voltage range	4 V DC 6 V DC
Switching threshold "0" signal, voltage	< 1 V DC
Switching threshold "1" signal voltage	> 3 V DC
Typical input current at U <sub>N</sub>	15 mA
Typical response time	10 ms
Typical turn-off time	10 ms
Protective circuit	Reverse polarity protection; Polarity protection diode
Transmission frequency	10 Hz

## Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output nominal voltage	230 V AC
Output voltage range	24 V AC 253 V AC
Limiting continuous current	2 A (see derating curve)
Maximum inrush current	30 A (10 ms)
Min. load current	25 mA
Leakage current	< 1 mA
Surge current	30 A (10 ms)
Max. load value	$4 \text{ A}^2 \text{s} \text{ (tp = 10 ms, at 25 °C)}$
Voltage drop at max. limiting continuous current	≤1 V



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Output circuit	2-conductor floating, zero voltage switch
Protective circuit	Surge protection; RC element
Dimensions	

#### D

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

## Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V0 (Housing)

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	RT III
Ambient temperature (operation)	-25 °C 60 °C
Ambient temperature (storage/transport)	-25 °C 70 °C

## Approvals

#### Corrosive gas test

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

## Standards and regulations

#### Standards/regulations

Standards/regulations	IEC 60664
	EN 50178

## Mounting

Assembly instructions	See derating curve
Mounting position	any



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