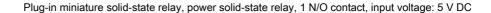


2967989

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## Your advantages

- · Vibration and shock resistant
- RT III-proof (wash-proof)
- · Wear-free and durable
- · Can be soldered on PCB
- Switching capacity of up to 24 V DC/3 A

## **Commercial Data**

Item number	2967989
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK61F2
Catalog Page	Page 396 (C-5-2019)
GTIN	4017918820763
Weight per Piece (including packing)	5.24 g
Weight per Piece (excluding packing)	3.5 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 characteristics: Standards/regulations Insulation	Basic insulation
•	Basic insulation

## Electrical properties

Maximum power dissipation for nominal condition	0.05 W
Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)

## Input data

Nominal input voltage U <sub>N</sub>	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	≤ 0.8 V
Switching threshold "1" signal voltage	≥ 2.5 V
Typical input current at U <sub>N</sub>	9 mA
Typical response time	20 μs (at U <sub>N</sub> )
Typical turn-off time	300 μs (at U <sub>N</sub> )
Transmission frequency	300 Hz

## Output data

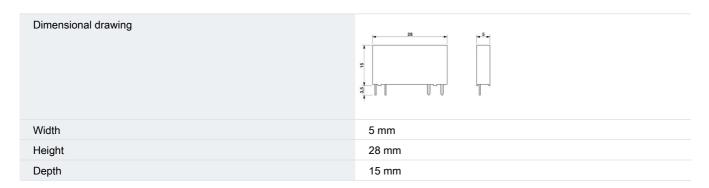
Contact type	1 N/O contact
Design of digital output	electronic
Output voltage range	3 V DC 33 V DC
Limiting continuous current	3 A (see derating curve)
Maximum inrush current	15 A (10 ms)
Voltage drop at max. limiting continuous current	≤ 150 mV
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection

## **Dimensions**



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## 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	in rows with zero spacing
Mounting position	any



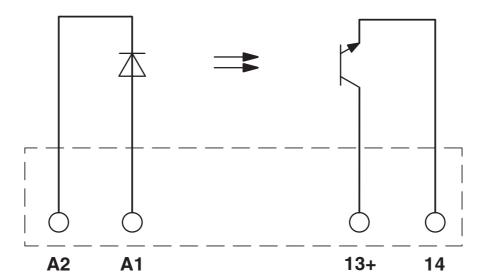
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## Drawings

# Dimensional drawing 28 5 Critical Part of the Control of the Co

## Circuit diagram

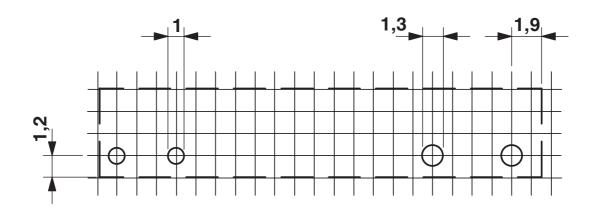




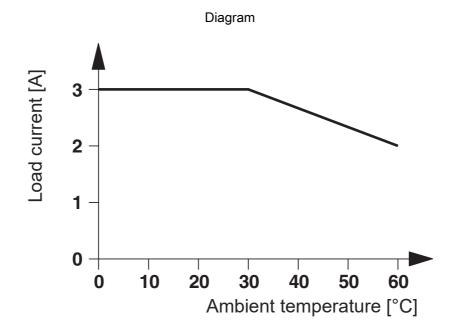
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## Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm





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## **Approvals**



cUL Recognized

Approval ID: FILE E 195083



**UL Recognized** 

Approval ID: FILE E 195083



EAC

Approval ID: TR\_TS\_D\_00573\_c



**UL Recognized** 

Approval ID: FILE E 195083



PRS

Approval ID: TE/2109/880590/16



cUL Recognized

Approval ID: FILE E 195083



GL

Approval ID: 46016-03 HH



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## Classifications

## **ECLASS**

	ECLASS-11.0	27371604		
	ECLASS-12.0	27371604		
	ECLASS-13.0	27371604		
ET	ETIM			
	***			
	ETIM 8.0	EC001504		
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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### Accessories

PLC-BPT- 5DC/21 - Relay base

2900443

https://www.phoenixcontact.com/in/products/2900443



 $6.2~\rm mm$  PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 5 V DC

PLC-BSC- 5DC/21 - Relay base

2980225

https://www.phoenixcontact.com/in/products/2980225



 $6.2~\rm mm$  PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 5 V DC



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### PLC-BSC- 5DC/ 1/SEN - Relay base

2980267

https://www.phoenixcontact.com/in/products/2980267



6.2 mm PLC basic terminal block for output functions with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 5 V DC

## PLC-BPT- 5DC/ 1/ACT - Relay base

2900448

https://www.phoenixcontact.com/in/products/2900448



6.2 mm PLC basic terminal block for output functions with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 5 V DC



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PLC-BSC- 5DC/ 1/ACT - Relay base

2980241

https://www.phoenixcontact.com/in/products/2980241



6.2 mm PLC basic terminal block for output functions with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 5 V DC

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