

2967950

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Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A

## Your advantages

- · Vibration and shock resistant
- RT III-proof (wash-proof)
- · Wear-free and durable
- · Can be soldered on PCB
- Zero voltage switch at AC output

### Commercial data

Item number	2967950
Packing unit	1 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	CK61F3
Catalog page	Page 287 (C-5-2019)
GTIN	4017918190538
Weight per piece (including packing)	5.75 g
Weight per piece (excluding packing)	5.75 g
Customs tariff number	85364110
Country of origin	JP



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## Technical data

## Product properties

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

Maximum power dissipation for nominal condition	0.07 W
Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)

## Input data

Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	0.8 1.2
Input voltage range	19.2 V DC 28.8 V DC
Switching threshold "0" signal, voltage	≤ 5 V
Switching threshold "1" signal voltage	≥ 10 V
Typical input current at U <sub>N</sub>	6 mA
Typical response time	10 ms (at U <sub>N</sub> )
Typical turn-off time	10 ms (at U <sub>N</sub> )
Transmission frequency	10 Hz

## Output data

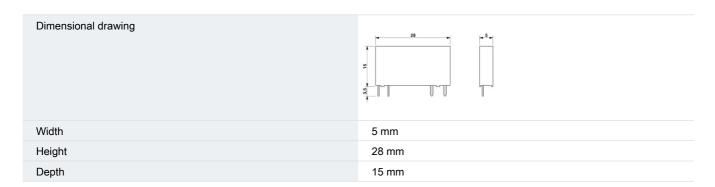
Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	24 V AC 253 V AC
Limiting continuous current	0.75 A (see derating curve)
Maximum inrush current	30 A (10 ms)
Min. load current	10 mA
Leakage current	< 1 mA
Phase angle cos phi min	0.5
Max. load value	$4.5 \text{ A}^2 \text{s}$
Voltage drop at max. limiting continuous current	< 1 V
Output circuit	2-conductor floating, zero voltage switch
Protective circuit	RCV circuit; RCV circuit

### **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

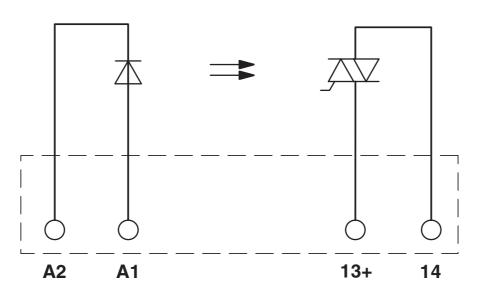


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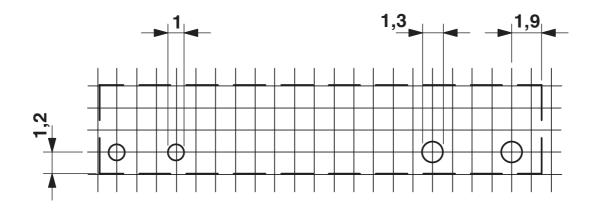
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## Drawings





Drilling plan/solder pad geometry

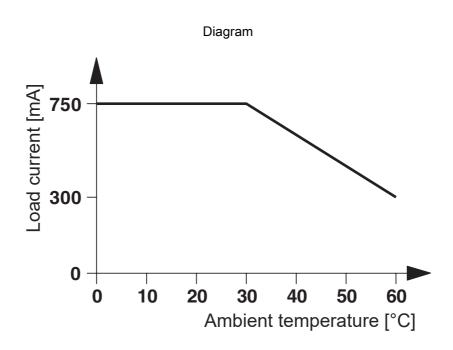


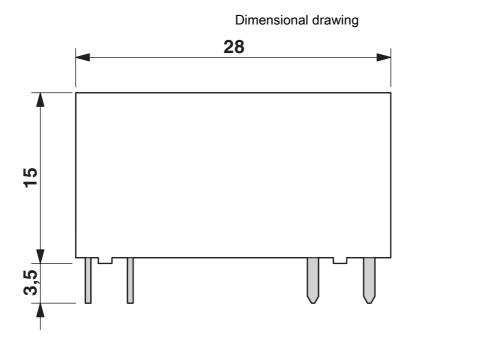
a = pitch division 1.25 mm and 1.27 mm

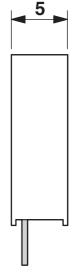


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## Approvals

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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



EAC

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



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	
ETIM			
	ETIM 8.0	EC001504	
UNSPSC			
	UNSPSC 21.0	39122300	



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## Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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### Accessories

PLC-BPT- 24DC/21 - Relay base

2900445

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 $6.2~\rm mm$  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 24 V DC

### PLC-BPT- 24DC/ 1/SEN - Relay base

2900262

https://www.phoenixcontact.com/us/products/2900262



6.2 mm PLC basic terminal block for input functions with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 24 V DC



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### PLC-BSC- 24DC/ 1/SEN - Relay base

#### 2966061

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 $6.2~\rm mm$  PLC basic terminal block for input functions with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 24 V DC

### PLC-BPT- 24DC/ 1/ACT - Relay base

#### 2900449

https://www.phoenixcontact.com/us/products/2900449



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 24 V DC



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## PLC-BSC- 24DC/ 1/ACT - Relay base

2966058

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 $6.2~\rm mm$  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 24 V DC

### PLC-BPT- 24UC/ 1/ACT - Relay base

2900450

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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 24 V AC/DC



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### PLC-BSC- 24UC/ 1/ACT - Relay base

2982799

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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 24 V AC/DC

### PLC-BSC- 24DC/21/SO46 - Relay base

2980458

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6.2 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with increased input current consumption, 1 changeover contact, input voltage 24 V DC



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### RIF-0-BPT/1 - Relay base

2901873

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

### RIF-0-BSC/ 1 - Relay base

2901872

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

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