#### 2967963

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Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 60 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
- Switching power of up to 24 V DC/5 A
- · Zero voltage switch at AC output
- Can be soldered on PCB

### Commercial data

Item number	2967963
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	CK61F3
Catalog page	Page 397 (C-5-2019)
GTIN	4017918190521
Weight per piece (including packing)	4.11 g
Weight per piece (excluding packing)	4 g
Customs tariff number	85364190
Country of origin	DE

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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	
Pollution degree	2
Electrical properties	
Maximum power dissipation for nominal condition	0.18 W
Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)
Input data	
Input data	
Nominal input voltage U <sub>N</sub>	60 V DC
Input voltage range in reference to U <sub>N</sub>	0.9 1.1
Input voltage range	54 V DC 66 V DC
Switching threshold "0" signal, voltage	≤ 15 V
Switching threshold "1" signal voltage	≥ 50 V
Typical input current at U <sub>N</sub>	3 mA
Typical response time	9 ms (at U <sub>N</sub> )
Typical turn-off time	700 μs (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 (in off state)
Phase angle cos phi min	0.5
Max. load value	4.5 A <sup>2</sup> 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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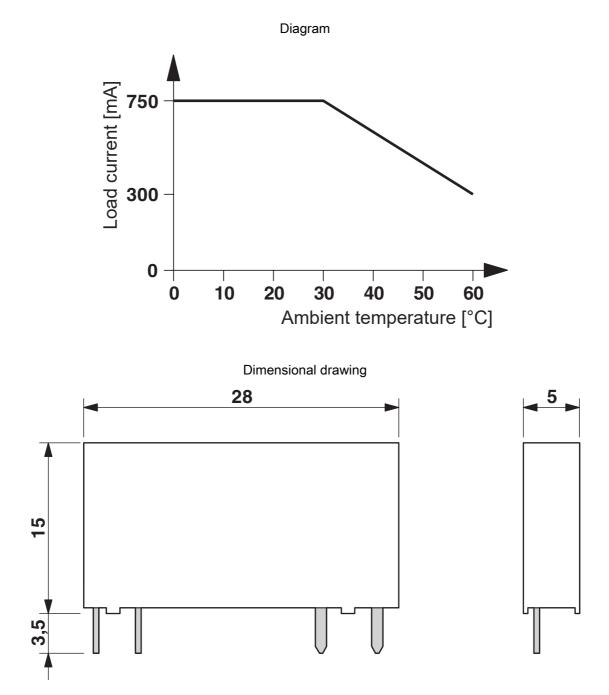
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Dimensional drawing	
Width	5 mm
Height	28 mm
Depth	15 mm
Material specifications	
Color	black (RAL 9005)
Environmental and real-life conditions	
Degree of protection	RTIII
Ambient temperature (operation)	-25 °C 60 °C
Ambient temperature (storage/transport)	-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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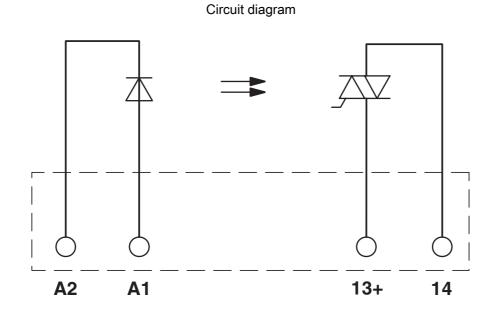
### Drawings



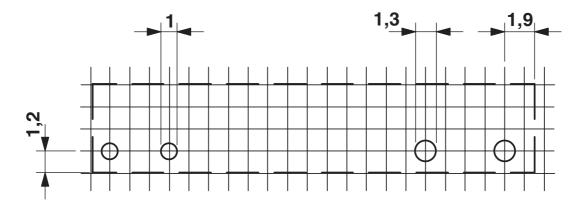


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Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm



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### Approvals

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.91	CUL Recognized Approval ID: FILE E 195083
<b>91</b>	UL Recognized Approval ID: FILE E 195083
ERC	EAC Approval ID: TR_TS_D_00573_c
<b>91</b>	UL Recognized Approval ID: FILE E 195083
ERC	EAC Approval ID: RU*C-DE.*08.B.00010
<b>.</b>	CUL Recognized Approval ID: FILE E 195083
۹	GL Approval ID: 46016-03 HH

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### Classifications

### ECLASS

ECLASS-11.0 273	371604
ECLASS-12.0 273	371604
ECLASS-13.0 273	371604

### ETIM

	ETIM 9.0	EC001504
UNSPSC		
	UNSPSC 21.0	39122300



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### Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes	
Exemption	7(a)	
China RoHS		
Environment friendly use period (EFUP)	EFUP-E	
	No hazardous substances above the limits	
EU REACH SVHC		
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)	
SCIP	7b1088cc-3309-4620-a913-7476772a8ca6	

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### Mandatory accessories

PLC-BPT-120UC/21 - Relay base

2900280 https://www.phoenixcontact.com/us/products/2900280



6.2 mm PLC basic terminal block with Push-in connection, without relay or solidstate relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 120 V AC/DC

### PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/us/products/2966032



6.2~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 120 V AC/DC

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PLC-BPT-230UC/21 - Relay base

2900281

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6.2~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 230 V AC/DC

### PLC-BSC-230UC/21 - Relay base

#### 2966045

https://www.phoenixcontact.com/us/products/2966045



6.2 mm PLC basic terminal block with screw connection, without relay or solidstate relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 230 V AC/DC

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### PLC-BPT-120UC/ 1/SEN - Relay base

2900451

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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 120 V AC/DC

### PLC-BSC-120UC/ 1/SEN - Relay base

2966074 https://www.phoenixcontact.com/us/products/2966074



6.2 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 120 V AC/DC

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### PLC-BPT-230UC/ 1/SEN - Relay base

2900452

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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 230 V AC/DC

### PLC-BSC-230UC/ 1/SEN - Relay base

2966087

https://www.phoenixcontact.com/us/products/2966087



6.2 mm PLC basic terminal block for input functions with screw connection, without relay or solid-state relay, for mounting on NS 35/7,5 DIN rail, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage: 230 V AC/DC

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#### PLC-BPT-120UC/21/SO46 - Relay base

2900453

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6.2 mm PLC basic terminal block against interference currents/voltages on the control side with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 120 V AC

### PLC-BSC-120UC/21/SO46 - Relay base

2980319 https://www.phoenixcontact.com/us/products/2980319



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 integrated RCZ filter, 1 changeover contact, input voltage 120 V AC

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### PLC-BPT-230UC/21/SO46 - Relay base

2900455

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6.2 mm PLC basic terminal block against interference currents/voltages on the control side with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 230 V AC

### PLC-BSC-230UC/21/SO46 - Relay base

2980335

https://www.phoenixcontact.com/us/products/2980335



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 integrated RCZ filter, 1 changeover contact, input voltage 230 V AC

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#### PLC-BSC-120UC/ 1/SEN/SO46 - Relay base

2980322

https://www.phoenixcontact.com/us/products/2980322



6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with screw connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 120 V AC

### PLC-BPT-230UC/ 1/SEN/SO46 - Relay base

2900457

https://www.phoenixcontact.com/us/products/2900457



6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with push-in connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 230 V AC

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#### PLC-BSC-230UC/ 1/SEN/SO46 - Relay base

2980348

https://www.phoenixcontact.com/us/products/2980348



6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with screw connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 230 V AC

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