

https://www.phoenixcontact.com/in/products/2982100

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Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/5 A

### Your advantages

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

### **Commercial Data**

Item number	2982100
Packing unit	10 pc
Minimum order quantity	10 рс
Sales Key	CK6
Product Key	CK61F2
Catalog Page	Page 296 (C-5-2019)
GTIN	4017918937492
Weight per Piece (including packing)	11.65 g
Weight per Piece (excluding packing)	11.65 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	
Pollution degree	2
lectrical properties	
Maximum power dissipation for nominal condition	0.17 W
Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)
Standards/regulations	
Rated insulation voltage	100 V DC
iput data	
Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range in reference to ${\rm U}_{\rm N}$	0.8 1.2
Input voltage range	19.2 V DC 28.8 V DC
Switching threshold "0" signal, voltage	≤ 10 V
Switching threshold "1" signal voltage	≥ 16 V
Typical input current at U <sub>N</sub>	7 mA
Typical response time	20 µs
Typical turn-off time	400 µs
Protective circuit	Reverse polarity protection; Polarity protection diode
Transmission frequency	300 Hz
output data	
Contact type	1 N/O contact
Design of digital output	electronic

Design of digital outputelectronicOutput nominal voltage24 V DCOutput voltage range3 V DC 33 V DCLimiting continuous current5 A (see derating curve)Maximum inrush current15 A (10 ms)Surge voltage protection> 33 V DCVoltage drop at max. limiting continuous current≤ 200 mVOutput circuit2-conductor, floatingProtective circuitReverse polarity protection: Polarity protection diode
Output voltage range3 V DC 33 V DCLimiting continuous current5 A (see derating curve)Maximum inrush current15 A (10 ms)Surge voltage protection> 33 V DCVoltage drop at max. limiting continuous current≤ 200 mVOutput circuit2-conductor, floating
Limiting continuous current5 A (see derating curve)Maximum inrush current15 A (10 ms)Surge voltage protection> 33 V DCVoltage drop at max. limiting continuous current≤ 200 mVOutput circuit2-conductor, floating
Maximum inrush current     15 A (10 ms)       Surge voltage protection     > 33 V DC       Voltage drop at max. limiting continuous current     ≤ 200 mV       Output circuit     2-conductor, floating
Surge voltage protection     > 33 V DC       Voltage drop at max. limiting continuous current     ≤ 200 mV       Output circuit     2-conductor, floating
Voltage drop at max. limiting continuous current     ≤ 200 mV       Output circuit     2-conductor, floating
Output circuit     2-conductor, floating
Protoctive airquit
Protective circuit Reverse polarity protection; Polarity protection diode
Surge protection

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### Dimensions

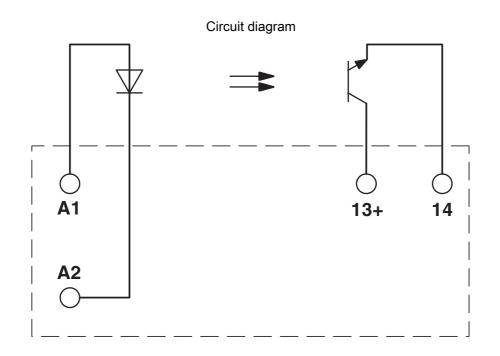
Dimensional drawing	
Width	12.7 mm
Height	29 mm
Depth	15.7 mm
Material specifications	
Flammability rating according to UL 94	V0 (Housing)
Environmental and real-life conditions	
Degree of protection	RT III
Ambient temperature (operation)	-25 °C 60 °C
Ambient temperature (storage/transport)	-25 °C 70 °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



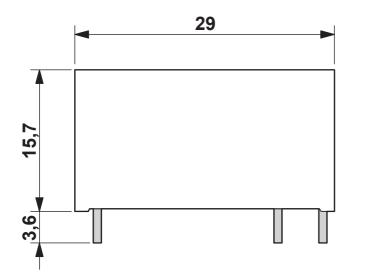
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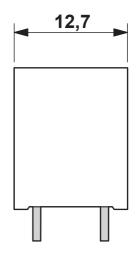
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### Drawings



Dimensional drawing

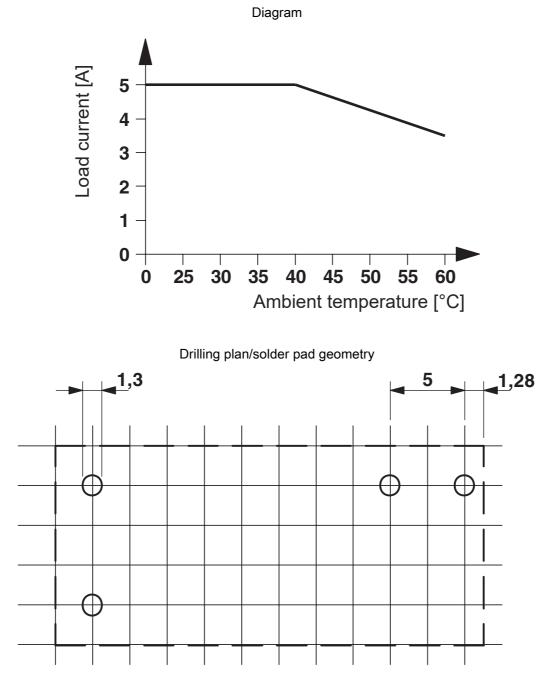






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Basic pitch 2.5 mm



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Approvals			
.81	CUL Recognized Approval ID: FILE E 195083		
<b>91</b>	UL Recognized Approval ID: FILE E 195083		
	EAC Approval ID: TR_TS_D_00573_c		
<b>F</b>	UL Recognized Approval ID: FILE E 195083		
	EAC Approval ID: RU*C-DE.*08.B.00010		
	PRS Approval ID: TE/2109/880590/16		
.91	CUL Recognized Approval ID: FILE E 195083		

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### Classifications

#### ECLASS

	604
ECLASS-12.0 273716	604
ECLASS-13.0 273716	604

### ETIM

	ETIM 8.0	EC001504	
UNSPSC			
	UNSPSC 21.0	39122300	

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### **Environmental Product Compliance**

Environmentally friendly use period: unlimited = EFUP-e No hazardous substances above threshold values

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Accessories

PLC-BPT- 24DC/21-21 - Relay base

2900283 https://www.phoenixcontact.com/in/products/2900283



14 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 24 V DC

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

2967015

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14 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 24 V DC

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PLC-BPT- 48DC/21-21 - Relay base

2900285

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14 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 48 V DC

#### PLC-BSC- 48DC/21-21 - Relay base

2967264 https://www.phoenixcontact.com/in/products/2967264



14 mm PLC basic terminal block with screw connection, without relay or solidstate relay, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 48 V DC

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

2900260

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14 mm PLC basic terminal block for high switch-on currents 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

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

2967837 https://www.phoenixcontact.com/in/products/2967837



14 mm PLC basic terminal block for high switch-on currents 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

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#### PLC-BPT- 24DC/21HC - Relay base

2900254

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14 mm PLC basic terminal block for high continuous currents 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-BSC- 24DC/21HC - Relay base

2967772 https://www.phoenixcontact.com/in/products/2967772



14 mm PLC basic terminal block for high continuous currents with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC

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#### PLC-BSC- 48DC/21HC - Relay base

2967798

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14 mm PLC basic terminal block for high continuous currents with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 48 V DC

#### RIF-1-BPT/2X21 - Relay base

2900931 https://www.phoenixcontact.com/in/products/2900931



Relay base RIF-1..., for miniature power relay with 1 or 2 changeover contacts or solid-state relays of the same design, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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#### RIF-1-BSC/2X21 - Relay base

#### 2900930

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RIF-1... relay base, for miniature power relay with 1 or 2 changeover contacts or identical solid-state relays, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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