

2982171

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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/2 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	2982171
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK61F3
Catalog Page	Page 297 (C-5-2019)
GTIN	4017918996970
Weight per Piece (including packing)	11.84 g
Weight per Piece (excluding packing)	10.33 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
nsulation characteristics	
Insulation	Basic insulation
nsulation characteristics: Standards/regulations	
Insulation	Basic insulation
Overvoltage category	III

Electrical 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	250 V AC

Input data

Nominal input voltage U _N	24 V DC
Input voltage range in reference to U_N	0.8 1.2
Input voltage range	19.2 V DC 28.8 V DC
Switching threshold "0" signal, voltage	< 8.4 V DC
Switching threshold "1" signal voltage	> 18 V DC
Typical input current at U _N	7 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 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	typ. 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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Mounting

Assembly instructions

Mounting position

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Output circuit	2-conductor floating, zero voltage switch
Protective circuit	Surge protection; RC element
imensions	
Dimensional drawing	29 12.7 12.7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
Width	12.7 mm
Height	29 mm
Depth	15.7 mm
latorial anacifications	
laterial specifications	
Flammability rating according to UL 94	V0 (Housing)
	V0 (Housing) RT III
Flammability rating according to UL 94 nvironmental and real-life conditions Ambient conditions	
Flammability rating according to UL 94 nvironmental and real-life conditions Ambient conditions Degree of protection	RT III
Flammability rating according to UL 94 nvironmental and real-life conditions Ambient conditions Degree of protection Ambient temperature (operation)	RT III -25 °C 60 °C
Flammability rating according to UL 94 nvironmental and real-life conditions Ambient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) pprovals	RT III -25 °C 60 °C
Flammability rating according to UL 94 nvironmental and real-life conditions Ambient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) pprovals Corrosive gas test	RT III -25 °C 60 °C -25 °C 70 °C
Flammability rating according to UL 94 nvironmental and real-life conditions Ambient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) pprovals Corrosive gas test	RT III -25 °C 60 °C -25 °C 70 °C ISA-S71.04. G3 Harsh Group
Flammability rating according to UL 94 nvironmental and real-life conditions Ambient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) pprovals Corrosive gas test Identification	RT III -25 °C 60 °C -25 °C 70 °C ISA-S71.04. G3 Harsh Group
Flammability rating according to UL 94 nvironmental and real-life conditions Ambient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) pprovals Corrosive gas test Identification tandards and regulations	RT III -25 °C 60 °C -25 °C 70 °C ISA-S71.04. G3 Harsh Group

See derating curve

any

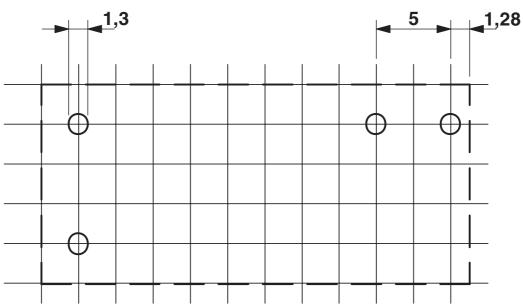


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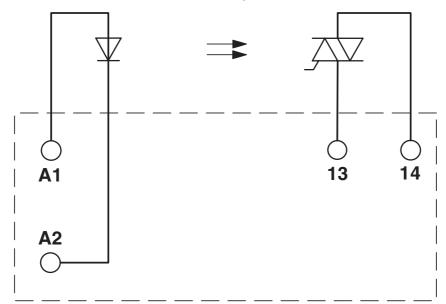
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Drawings

Drilling plan/solder pad geometry



Circuit diagram

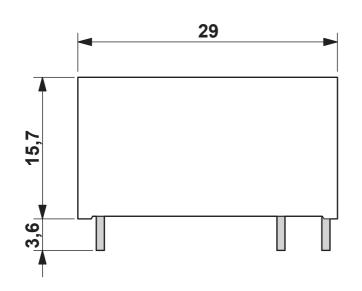


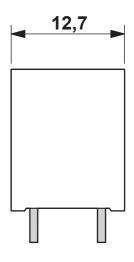


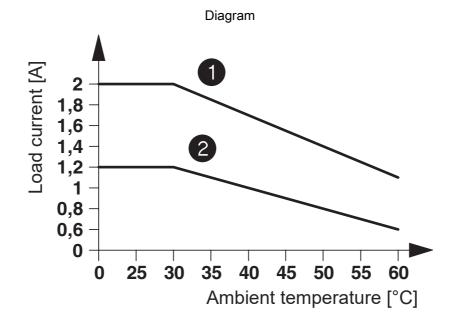
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Dimensional drawing







- 1 In rows with 10 mm spacing
- 2 In rows with zero spacing



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Approvals



cUL RecognizedApproval 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



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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

China RoHS	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

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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 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

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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 48 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

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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 24 V DC



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PLC-BPIT- 48DC/21HC - Relay base

2900256

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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 48 V DC

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



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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

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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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RIF-1-BPT/2X21 - Relay base

2900931

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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

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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