

OPT-24DC/230AC/ 1 - Miniature solid-state relay



2967950

<https://www.phoenixcontact.com/pt/produtos/2967950>

Note que os dados aqui indicados foram obtidos a partir do catálogo online. Para informações e dados completos, consulte a documentação do utilizador. Aplicam-se as condições gerais de utilização para downloads da Internet



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

Vantagens

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

Dados comerciais

N.º de artigo	2967950
Pcs./Emb	10 Unidade
Quantidade mínima de pedido	10 Unidade
Chave comercial	CK6
Chave de produto	CK69K2
Página de catálogo	Página 287 (C-5-2019)
GTIN	4017918190538
Peso por unidade (inclusive embalagem)	5,75 g
Peso por unidade (excluindo embalagem)	5,75 g
Número do imposto alfandegário	85364110
País de origem	JP

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Dados técnicos

Product properties

Product type	Single solid-state relay
Operating mode	100% operating factor

Data management status

Date of last data management	11.07.2024
Article revision	02

Insulation characteristics

Insulation	Basic insulation
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Insulation characteristics: Standards/regulations

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

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_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 in reference to U_N	0.35
Switching threshold "1" signal in reference to U_N	0.8
Typical input current at U_N	6.6 mA
Typical response time	10 ms (at U_N)
Typical turn-off time	10 ms (at U_N)
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 A ² s
Voltage drop at max. limiting continuous current	< 1 V
Output circuit	2-conductor floating, zero voltage switch

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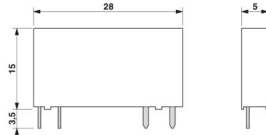


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Protective circuit	RCV circuit; RCV circuit
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Dimensions

Dimensional drawing	
Width	5 mm
Height	28 mm
Depth	15 mm

Material specifications

Color	black (RAL 9005)
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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 note	in rows with zero spacing
Mounting position	any

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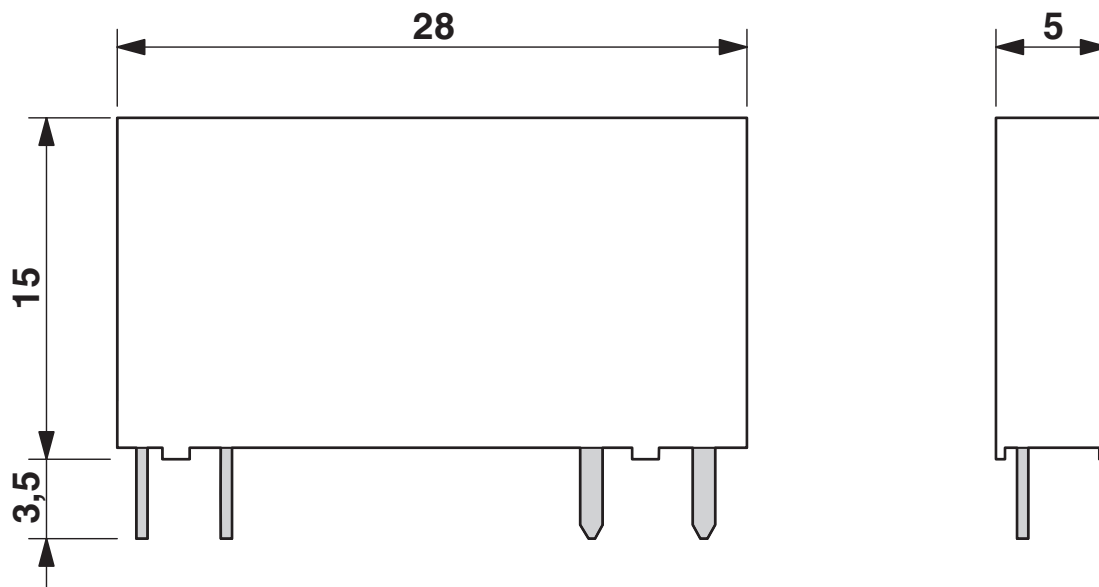
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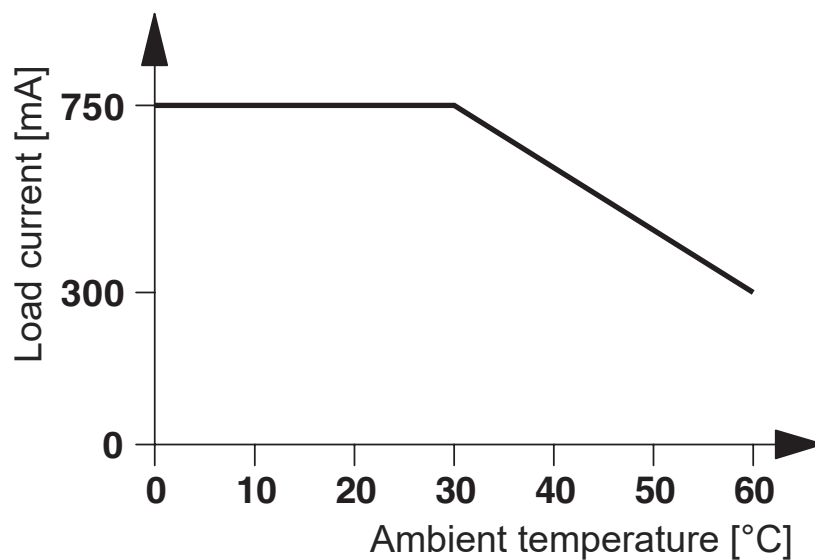


Desenhos

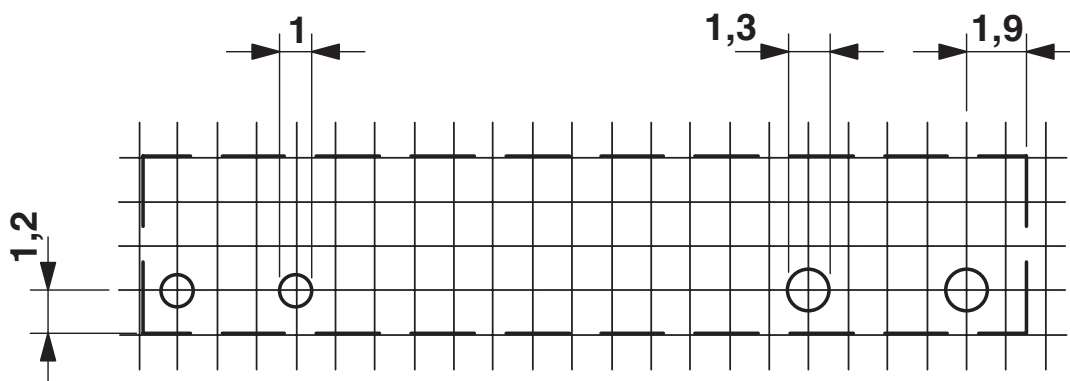
Dimensional drawing



Diagram

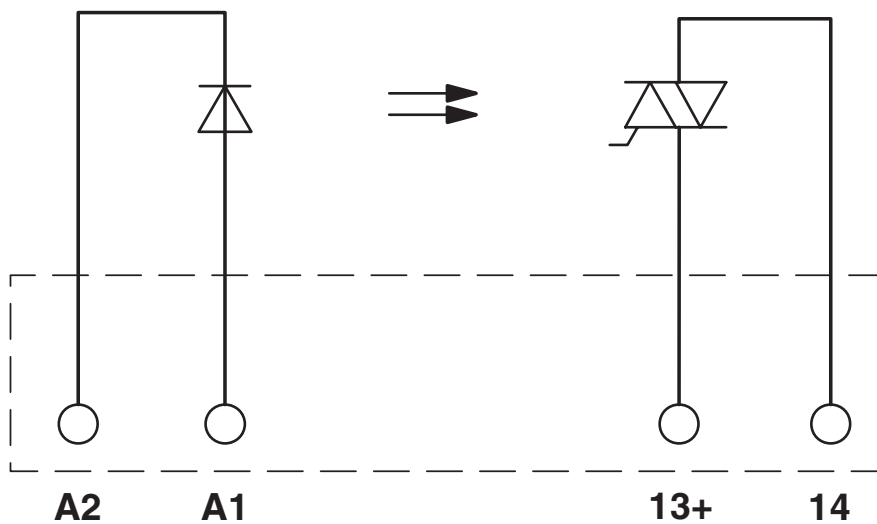


Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

Circuit diagram



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Certificações

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pt/produtos/2967950>



cUL Recognized

ID de certificação: FILE E 195083



UL Recognized

ID de certificação: FILE E 195083



EAC

ID de certificação: TR_TS_D_00573_c



UL Recognized

ID de certificação: FILE E 195083



EAC

ID de certificação: RU*C-DE.*08.B.00010



cUL Recognized

ID de certificação: FILE E 195083



GL

ID de certificação: 46016-03 HH

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Classificações

ECLASS

ECLASS-11.0	27371604
ECLASS-12.0	27371604
ECLASS-13.0	27371604

ETIM

ETIM 9.0	EC001504
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UNSPSC

UNSPSC 21.0	39122300
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Environmental product compliance

EU RoHS

Cumpra os requisitos de substância segundo a Diretiva RoHS	Sim
isenções tanto quanto conhecido	7(a)

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	Nenhuma substância perigosa acima dos valores-limite

EU REACH SVHC

Nota sobre as substâncias candidatas ao REACH (n.º CAS)	Lead(n.º CAS: 7439-92-1)
SCIP	a8af46d4-c21c-4cb5-b418-9348cf4fc9a7

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Acessórios necessários

PLC-BPT- 24DC/21 - Relay base

2900445

<https://www.phoenixcontact.com/pt/produtos/2900445>



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 24 V DC

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

2900262

<https://www.phoenixcontact.com/pt/produtos/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

<https://www.phoenixcontact.com/pt/produtos/2966061>



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 24 V DC

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

2900449

<https://www.phoenixcontact.com/pt/produtos/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 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

<https://www.phoenixcontact.com/pt/produtos/2980458>



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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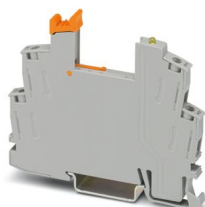


RIF-0... relay base, for miniature power relay with 1 N/O contact or solid-state relays of the same design, push-in connection, for mounting on NS 35/7,5

RIF-0-BSC/ 1 - Relay base

2901872

<https://www.phoenixcontact.com/pt/produtos/2901872>



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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