

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



2967950

<https://www.phoenixcontact.com/us/products/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	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	DK69K2
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
Set comprises	2905295 RIF-0-OPT-24DC/230AC/1
Operating mode	100% operating factor

### Insulation characteristics: Standards/regulations

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

### Data management status

Date of last data management	01.04.2026
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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 $U_N$	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 <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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## Item dimensions

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

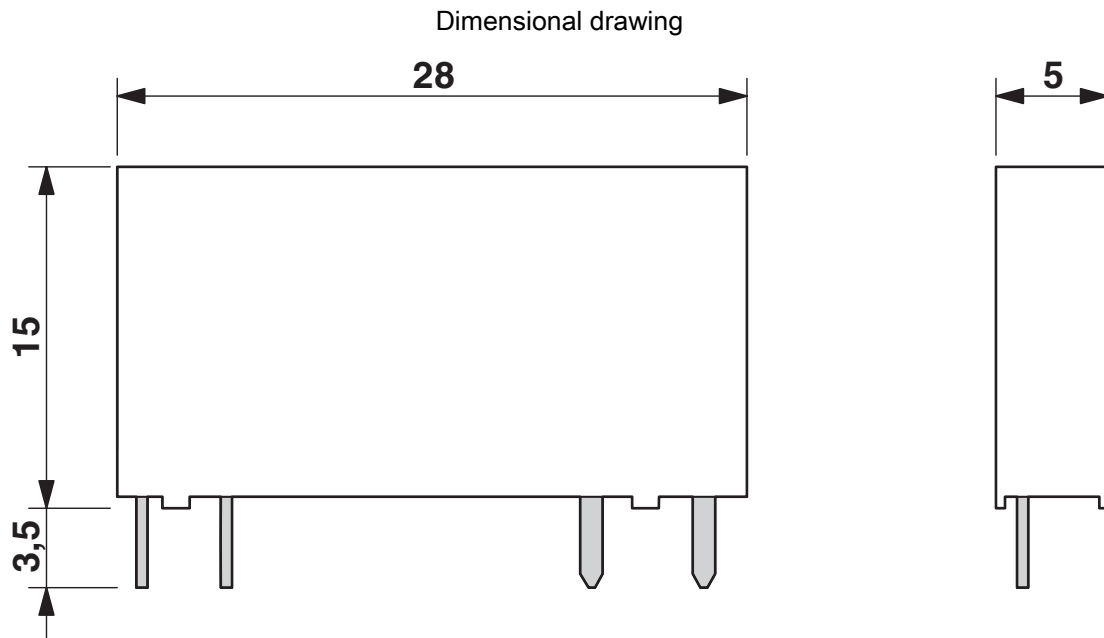
# OPT-24DC/230AC/ 1 - Miniature solid-state relay



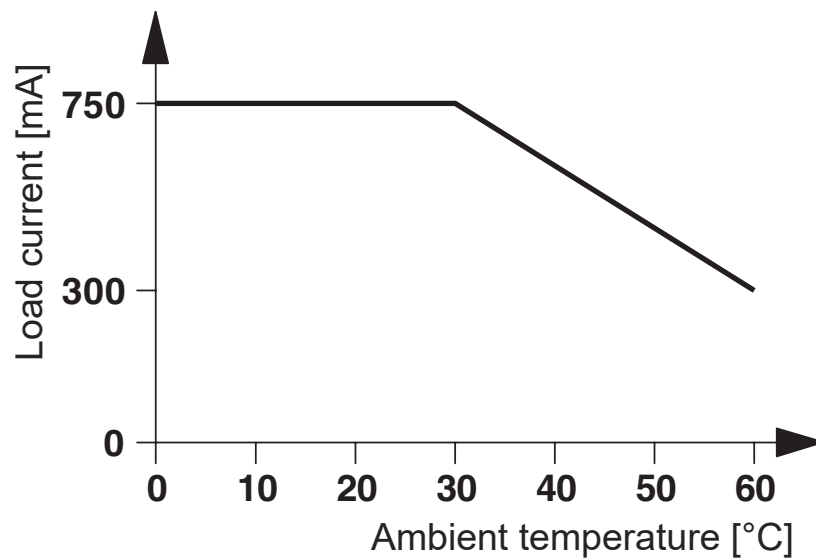
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## Drawings



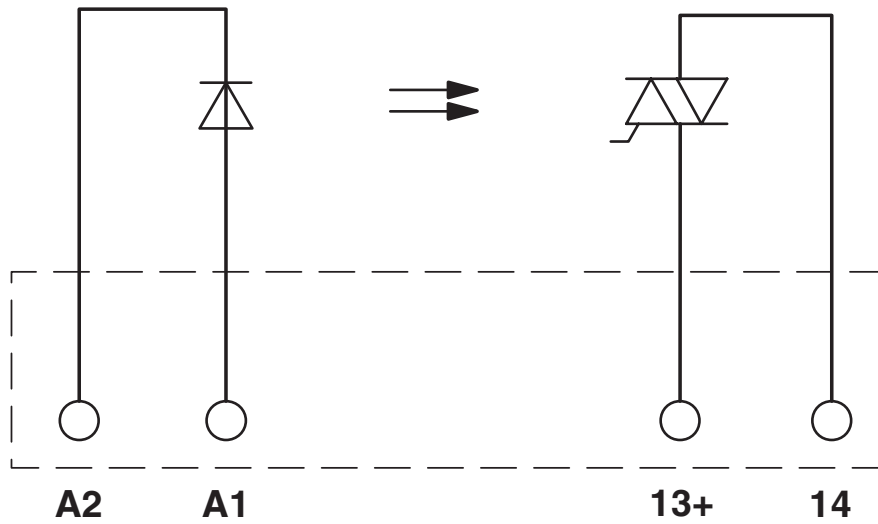
Diagram



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Circuit diagram



Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2967950>



**cUL Recognized**  
Approval ID: FILE E 195083



**UL Recognized**  
Approval ID: FILE E 195083



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



**UL Recognized**  
Approval ID: FILE E 195083



**cUL Recognized**  
Approval ID: FILE E 195083



**GL**  
Approval ID: 46016-03 HH

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## Classifications

### ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

### ETIM

ETIM 10.0	EC001504
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### 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-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	a8af46d4-c21c-4cb5-b418-9348cf4fc9a7

### EF3.1 Climate Change

CO2e kg	1.317 kg CO2e
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