

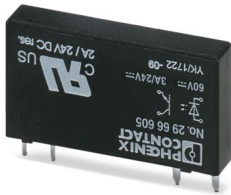
OPT-60DC/ 24DC/ 2 - Miniature solid-state relay



2966605

<https://www.phoenixcontact.com/us/products/2966605>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 60 V DC, output: 3 ... 33 V DC/3 A

Your advantages

- Vibration and shock resistant
- RT III-proof (wash-proof)
- Wear-free and durable
- Can be soldered on PCB
- Switching power of up to 24 V DC/3 A

Commercial data

Item number	2966605
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	DK69K1
GTIN	4017918130923
Weight per piece (including packing)	5.42 g
Weight per piece (excluding packing)	5.42 g
Customs tariff number	85364190
Country of origin	HU

OPT-60DC/ 24DC/ 2 - Miniature solid-state relay



2966605

<https://www.phoenixcontact.com/us/products/2966605>

Technical data

Product properties

Product type	Single solid-state relay
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
------------------------------	------------

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

Nominal input voltage U_N	60 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	48 V DC ... 72 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	3 mA
Typical response time	40 μ s (at U_N)
Typical turn-off time	500 μ s (at U_N)
Transmission frequency	300 Hz

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	3 V DC ... 33 V DC
Limiting continuous current	3 A (see derating curve)
Maximum inrush current	15 A (10 ms)
Voltage drop at max. limiting continuous current	\leq 150 mV
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection

Dimensions

Item dimensions

Width	5 mm
Height	28 mm

OPT-60DC/ 24DC/ 2 - Miniature solid-state relay



2966605

<https://www.phoenixcontact.com/us/products/2966605>

Depth	15 mm
-------	-------

Material specifications

Color	black (RAL 9005)
-------	------------------

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

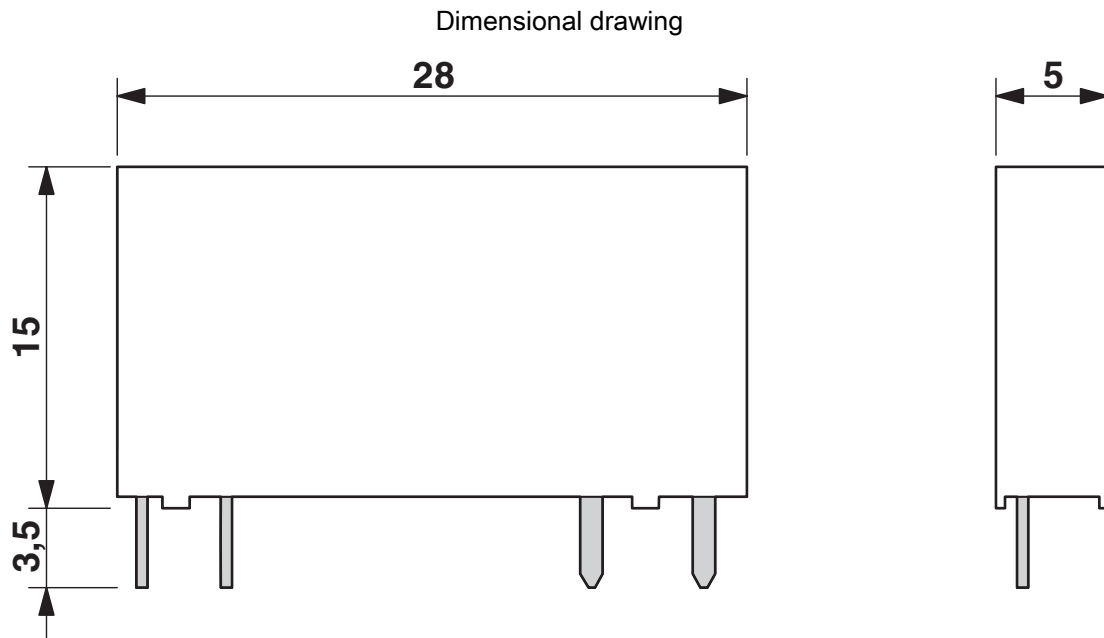
Assembly note	in rows with zero spacing
Mounting position	any

OPT-60DC/ 24DC/ 2 - Miniature solid-state relay

2966605

<https://www.phoenixcontact.com/us/products/2966605>

Drawings



Diagram



OPT-60DC/ 24DC/ 2 - Miniature solid-state relay



2966605

<https://www.phoenixcontact.com/us/products/2966605>

Circuit diagram



Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

OPT-60DC/ 24DC/ 2 - Miniature solid-state relay



2966605

<https://www.phoenixcontact.com/us/products/2966605>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2966605>



cUL Recognized
Approval ID: FILE E 195083



UL Recognized
Approval ID: FILE E 195083



UL Recognized
Approval ID: FILE E 195083



cUL Recognized
Approval ID: FILE E 195083



GL
Approval ID: 46016-03 HH

OPT-60DC/ 24DC/ 2 - Miniature solid-state relay



2966605

<https://www.phoenixcontact.com/us/products/2966605>

Classifications

ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

ETIM

ETIM 10.0	EC001504
-----------	----------

UNSPSC

UNSPSC 21.0	39122300
-------------	----------

OPT-60DC/ 24DC/ 2 - Miniature solid-state relay



2966605

<https://www.phoenixcontact.com/us/products/2966605>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com