OV-24DC/480AC/5 - Semi-conductor relay

2982650

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Solid-state relay, for signal amplification and isolation of the control and load circuits, can be plugged in the solderable plug-in bases SIM-AMS or with PCB connection for mounting directly onto the PCB, input: 4-32 V DC, output: 12-530 V AC/ 5 A

Your advantages

- Compact dimensions
- No wear, even at high switching frequencies
- No electromagnetic interference
- High test voltage of up to 4 kV between control and load circuits
- Electrically insulated housing
- No contact bounce – no movable parts
- Switching power of up to 350 V DC/1 A, 60 V DC/4 A or 480 V AC/5 A

Commercial data

Item number	2982650
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C471
Product key	DK69L2
GTIN	4046356131667
Weight per piece (including packing)	25.34 g
Weight per piece (excluding packing)	24.7 g
Customs tariff number	85362010
Country of origin	CN

Technical data

Product properties

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

Insulation characteristics

Insulation	Basic insulation

Data management status

Date of last data management	01.04.2026

Electrical properties

Test voltage (Input/output)	4 kV (50 Hz, 1 min., input/output)

Input data

Nominal input voltage U_N	24 V DC
Input voltage range	4 V DC ... 32 V DC
Switching threshold "0" signal, voltage	< 1.2 V DC
Switching threshold "1" signal voltage	> 3.5 V DC
Typical input current at U_N	10 mA
Typical response time	ms (maximum ½ periods)
Typical turn-off time	ms (maximum ½ periods)
Transmission frequency	25 Hz

Output data

Design of digital output	electronic
Output voltage range	12 V AC ... 530 V AC (45/65 Hz)
Limiting continuous current	5 A (see derating curve)
Min. load current	20 mA
Leakage current	< 1 mA
Surge current	80 A (tp = 20 ms)
Phase angle cos phi min	0.5
Max. load value	50 A^2s
Peak offstate voltage	1000 V (Periodic peak reverse voltage)
Voltage drop at max. limiting continuous current	1.2 V
Output circuit	2-conductor

Dimensions

Item dimensions

Width	10.5 mm
Height	43 mm
Depth	25.4 mm

Material specifications

Color	black (RAL 9005)

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-20 °C ... 70 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Approvals

UKCA

Certificate	UKCA-compliant

Standards and regulations

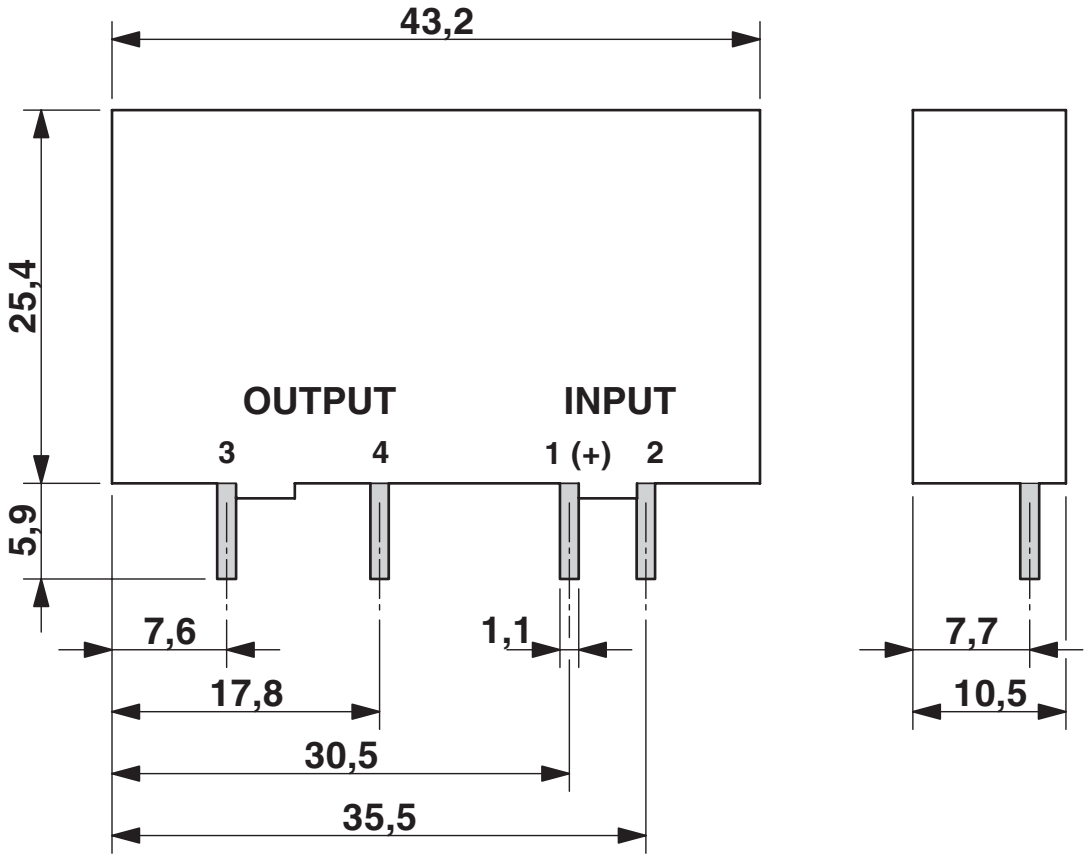
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 55011

Mounting

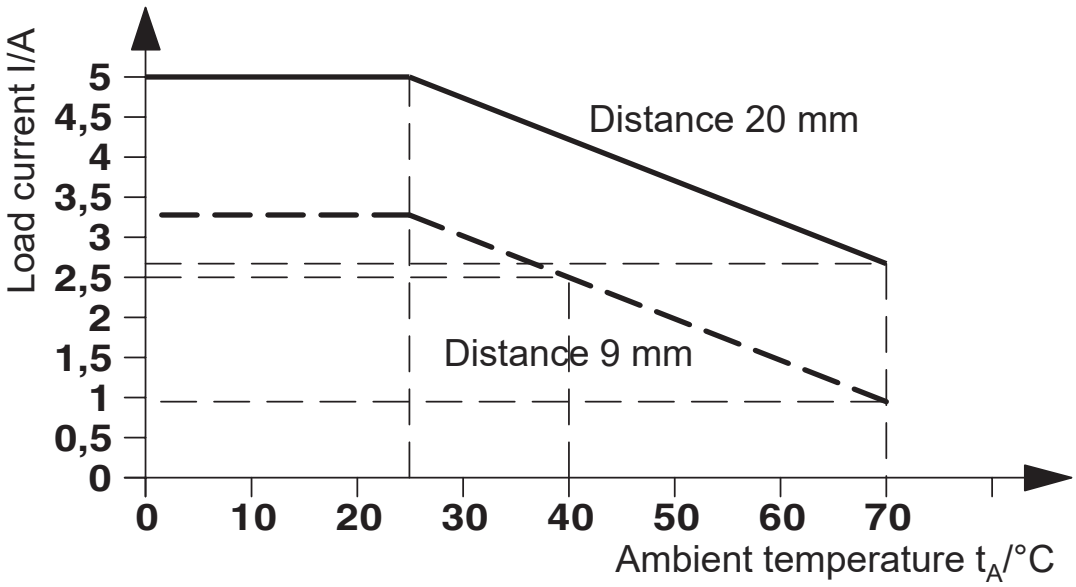
Assembly note	can be aligned with spacing > 20 mm
Mounting position	any

Drawings

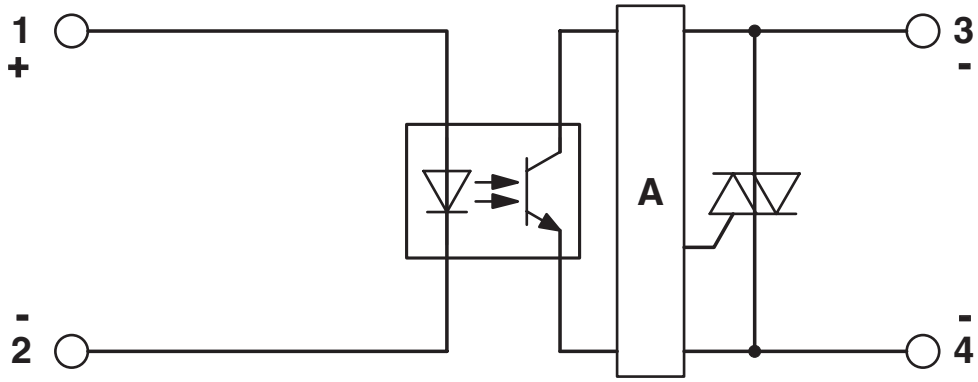
Dimensional drawing



Diagram



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2982650

cUL Recognized
Approval ID: FILE E 195083

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Classifications

ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

ETIM

ETIM 10.0	EC001504

UNSPSC

UNSPSC 21.0	39122300

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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.)	No substance above 0.1 wt%

EF3.1 Climate Change

CO2e kg	3.581 kg CO2e

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