

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

Product Features

- 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
- No contact bounce – no movable parts
- Electrically insulated housing
- Switching power of up to 350 V DC/1 A, 60 V DC/4 A or 480 V AC/5 A



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	25.11 g
Custom tariff number	85362010
Country of origin	Malta

Technical data

Dimensions

Width	10.5 mm
Height	43 mm
Depth	25.4 mm

Ambient conditions

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

Input data

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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

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)
Max. load value	50 A ² s
Peak offstate voltage	1000 V (Periodic peak reverse voltage)
Voltage drop at max. limiting continuous current	1.2 V
Output circuit	2-conductor

General

Test voltage input/output	4 kV (50 Hz, 1 min.)
Mounting position	any
Assembly instructions	Can be aligned with > 20 mm spacing
Operating mode	100% operating factor
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 55011
Rated surge voltage/insulation	Basic insulation

Standards and Regulations

Connection in acc. with standard	CUL
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5

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	EN 61000-4-6
	EN 55011
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Classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371014

ETIM

ETIM 2.0	EC000196
ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC002055

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39121542

Approvals

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UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

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Approvals

Approvals submitted

Approval details

UL Recognized

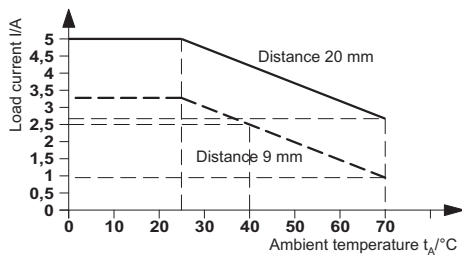
cUL Recognized

EAC

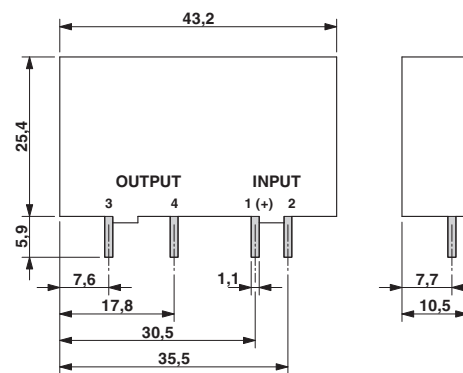
cULus Recognized

Drawings

Diagram



Dimensional drawing



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Circuit diagram

