

## 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 GRM |
| 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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## Technical data

### 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 <sup>2</sup> 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                    |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371001 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27371001 |

#### 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

#### Approvals

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#### Approvals

UL Recognized / cUL Recognized / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details

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|---------------------------------------------------------------------------------------------------|
| UL Recognized  |
|---------------------------------------------------------------------------------------------------|

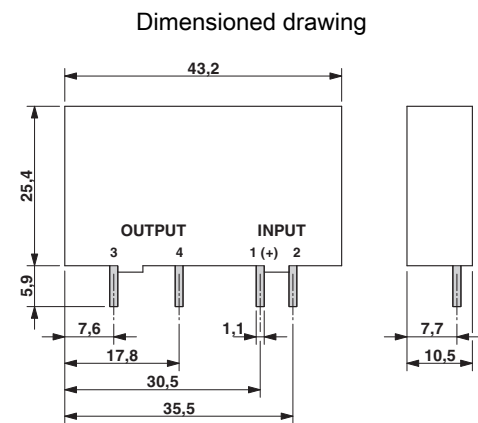
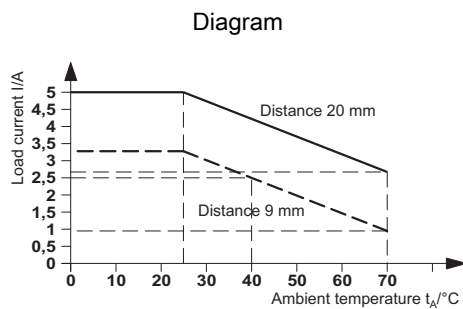
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## Approvals

cUL Recognized 

cULus Recognized 

## Drawings



## Circuit diagram

