

## Solid-state relays - ST-OV3-220DC/240AC/3 - 2903105

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Pluggable power optocoupler, with light indicator and protection circuits in the input and output circuits, input: 220 V DC, output: 24-280 V AC/max. 3 A, can be plugged on basic termination blocks

The illustration shows version ST-OV  
3- 5 DC/240 AC/3



### Key commercial data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 017918 078935 |
| Weight per Piece (excluding packing) | 61.15 GRM                                                                                               |
| Custom tariff number                 | 85364900                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Dimensions

|        |         |
|--------|---------|
| Width  | 20.8 mm |
| Height | 33 mm   |
| Depth  | 66.5 mm |

#### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

#### Input data

|                                         |                     |
|-----------------------------------------|---------------------|
| Nominal input voltage $U_N$             | 220 V DC $\pm 20$ % |
| Switching threshold "0" signal, voltage | $\leq 86$ V         |
| Switching threshold "1" signal voltage  | $\geq 106$ V        |
| Typical input current at $U_N$          | 7 mA                |

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### Technical data

#### Input data

|                              |                                                             |
|------------------------------|-------------------------------------------------------------|
| Typical response time        | switch-on time: Max. one half cycle - zero-voltage crossing |
| Typical turn-off time        | switch-off time Max. one half cycle - zero-current crossing |
| Operating voltage display    | Yellow LED                                                  |
| Type of protection           | Protection against polarity reversal                        |
| Protective circuit/component | Polarity protection diode                                   |
| Transmission frequency       | 25 Hz                                                       |

#### Output data

|                                                  |                                                                                         |
|--------------------------------------------------|-----------------------------------------------------------------------------------------|
| Output voltage range                             | 24 V AC ... 280 V AC                                                                    |
| Limiting continuous current                      | 3 A (see derating curve)                                                                |
| Min. load current                                | 50 mA                                                                                   |
| Leakage current                                  | 5 mA (in off state - components with low minimum load and leakage currents on request.) |
| Surge current                                    | 35 A (t = 10 ms)                                                                        |
| Max. load value                                  | $6 \text{ A}^2\text{s}$ ( $I^2 \times t$ at $t = 8.3 \text{ ms}$ )                      |
| Peak offstate voltage                            | 600 V                                                                                   |
| Voltage drop at max. limiting continuous current | 1.5 V                                                                                   |
| Output circuit                                   | 2-wire, floating                                                                        |
| Protective circuit/component                     | RC element                                                                              |

#### General

|                           |              |
|---------------------------|--------------|
| Test voltage input/output | 2.5 kV AC    |
| Mounting position         | any          |
| Standards/regulations     | DIN VDE 0110 |

### 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 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001504 |
| ETIM 3.0 | EC001504 |
| ETIM 4.0 | EC001504 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC001504 |
|----------|----------|

### UNSPSC

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

## Approvals

### Approvals

Approvals

GOST / GOST

Ex Approvals

Approvals submitted

### Approval details

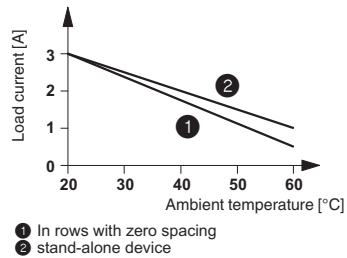
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| GOST  |
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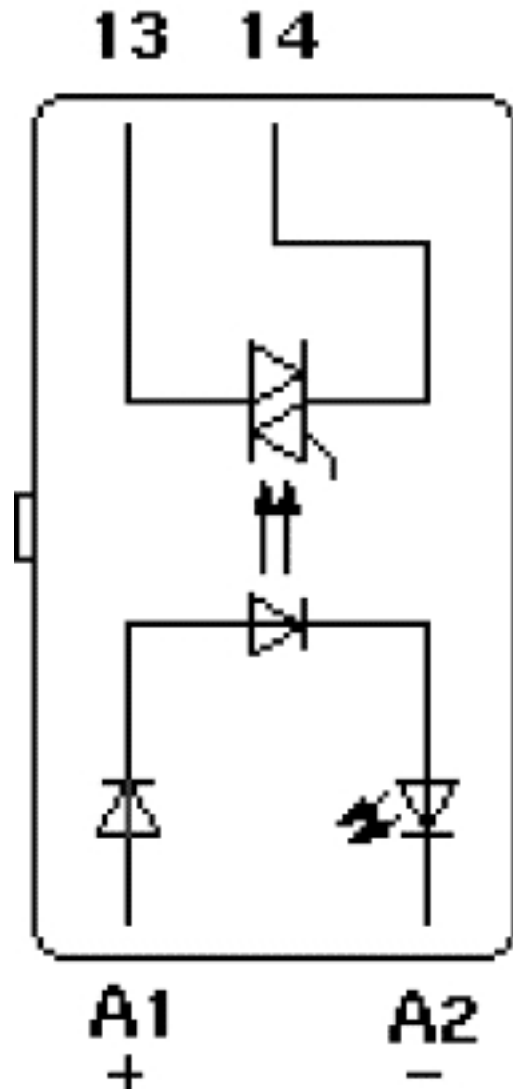
## Drawings

## Solid-state relays - ST-OV3-220DC/240AC/3 - 2903105

Diagram

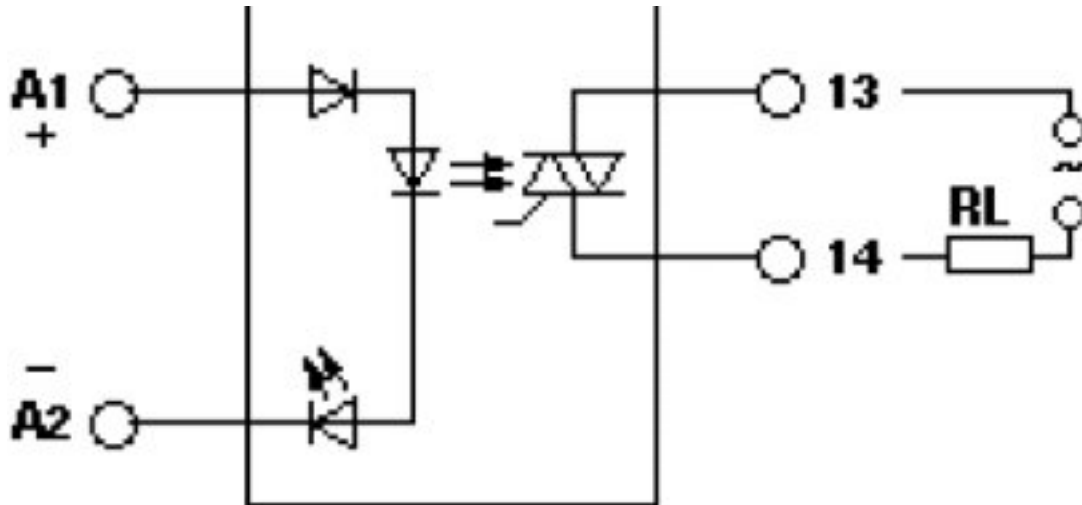


Circuit diagram



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Circuit diagram



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