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Solid-state relay interface designed to prevent interference on the control side, input: 230 V AC, output: 48 V DC/100 mA

#### **Product Features**

- Use of AC output cards, resulting in residual AC currents
- Resistant to interference currents
- Applications with long control lines
- High relay release voltage



## **Key Commercial Data**

| Packing unit                         | 1 pc     |
|--------------------------------------|----------|
| Weight per Piece (excluding packing) | 25.07 g  |
| Custom tariff number                 | 85364900 |
| Country of origin                    | China    |

#### Technical data

#### **Dimensions**

| Width  | 6.2 mm |
|--------|--------|
| Height | 80 mm  |
| Depth  | 56 mm  |

### Ambient conditions

| Ambient temperature (operation)         | 0 °C 50 °C |
|---|------------|
| Ambient temperature (storage/transport) | 0 °C 70 °C |

### Input data



### Technical data

### Input data

| Nominal input voltage U <sub>N</sub>               | 230 V AC         |
|--|------------------|
| Input voltage range in reference to U <sub>N</sub> | 0.9 1.1          |
| Switching threshold "0" signal, voltage            | ≤ 92 V AC        |
| Switching threshold "1" signal voltage             | > 207 V AC       |
| Typical input current at U <sub>N</sub>            | 2.5 mA           |
| Typical response time                              | 4.4 ms           |
| Typical turn-off time                              | 14 ms            |
| Operating voltage display                          | Yellow LED       |
| Type of protection                                 | Surge protection |
|  | RC element       |
| Protective circuit/component                       | Varistor         |
|  | RC element       |
| Transmission frequency                             | 5 Hz             |

### Output data

| Output voltage range                             | 3 V DC 48 V DC                 |
|--|--------------------------------|
| Limiting continuous current                      | 100 mA                         |
| Voltage drop at max. limiting continuous current | ≤ 0.9 V                        |
| Output circuit                                   | 3-conductor, ground-referenced |
| Type of protection                               | Reverse polarity protection    |
|  | Free running                   |
| Protective circuit/component                     | Polarity protection diode      |
|  | Damping diode                  |

### Connection data, input side

| Connection name                  | Input side                              |
|----------------------------------|---|
| Connection method                | Screw connection                        |
| Stripping length                 | 8 mm                                    |
| Screw thread                     | M3                                      |
| Conductor cross section solid    | 0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 24 12                                   |
| Torque                           | 0.5 Nm                                  |

### Connection data, output side

| Connection name   | Output side      |
|-------------------|------------------|
| Connection method | Screw connection |



### Technical data

### Connection data, output side

| Stripping length                 | 8 mm                                    |
|----------------------------------|---|
| Screw thread                     | M3                                      |
| Conductor cross section solid    | 0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 24 12                                   |
| Torque                           | 0.5 Nm                                  |

#### General

| Test voltage input/output      | 2.5 kV AC                 |
|--------------------------------|---------------------------|
|                                | 2.5 kV AC                 |
| Mounting position              | any                       |
| Assembly instructions          | In rows with zero spacing |
| Operating mode                 | 100% operating factor     |
| Standards/regulations          | IEC 60664                 |
|                                | EN 50178                  |
|                                | IEC 62103                 |
| Rated surge voltage/insulation | Basic insulation          |
| Degree of pollution            | 2                         |
| Overvoltage category           | III                       |

### Standards and Regulations

| Standards/regulations          | IEC 60664        |
|--------------------------------|------------------|
|                                | EN 50178         |
|                                | IEC 62103        |
| Rated surge voltage/insulation | Basic insulation |
| Degree of pollution            | 2                |
| Overvoltage category           | III              |

### 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 |



### Classifications

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Approvals

EAC

Ex Approvals

Approvals submitted

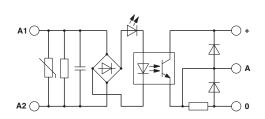
Approval details

EAC

Drawings



### Circuit diagram



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