

Solid-state relay terminal block - DEK-OE-230AC/ 48DC/100/SO 46 - 2964678

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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

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Input data

| | |
|-------------------------------------------|------------------|
| Nominal input voltage U_N | 230 V AC |
| Input voltage range in reference to U_N | 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_N | 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 ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 12 |
| Torque | 0.5 Nm |

Connection data, output side

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

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Connection data, output side

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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 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 8.0 | 27371604 |
|------------|----------|

ETIM

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|----------|----------|
| ETIM 2.0 | EC001504 |
| ETIM 3.0 | EC001504 |
| ETIM 4.0 | EC001504 |
| ETIM 5.0 | EC001504 |

UNSPSC

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

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approvals submitted

Approval details

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| EAC |
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Drawings

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Circuit diagram

