

DEK-OV- 12DC/ 24DC/ 3 - Solid-state relay terminal block



2941387

<https://www.phoenixcontact.com/us/products/2941387>

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Power solid-state relay terminal block, input: 12 V DC, output: 3 - 30 V DC/3 A, terminal block width: 6.2 mm

Your advantages

- Actuator version available
- EB-DIK insertion bridges
- Labeling and mounting with user-friendly modular terminal blocks
- Wear-free switching of up to 24 V DC/10 A or 240 V AC/800 mA
- Integrated output protective circuit
- Integrated input circuit
- Electrical isolation between input and output at up to 2.5 kVrms
- Status indicator
- Zero voltage switch at AC output

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 2941387 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C460 |
| Product key | CK61D2 |
| Catalog page | Page 443 (C-5-2019) |
| GTIN | 4017918080402 |
| Weight per piece (including packing) | 22 g |
| Weight per piece (excluding packing) | 21.6 g |
| Customs tariff number | 85364190 |
| Country of origin | CN |

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Technical data

Notes

| | |
|---------|---|
| General | Use of EB 80-DIK... bridges in the DEK terminal blocks: Absorption of humidity from the ambient air as well as an unfavorable tolerance between a larger number of DEK terminal blocks and the EB 80-DIK... bridge may cause (minor) expansion of the DEK housing. When the EB 80-DIK... bridges are used, therefore, it is recommended that these be disconnected after about 10 to 12 DEK terminal blocks and a wire bridge to the next DEK terminal block be inserted in their place. |
|---------|---|

Product properties

| | |
|----------------|--------------------------|
| Product type | Solid-state relay module |
| Product family | DEK |
| Application | Output function |
| Operating mode | 100% operating factor |

Insulation characteristics

| | |
|------------|------------------|
| Insulation | Basic insulation |
|------------|------------------|

Insulation characteristics: Standards/regulations

| | |
|----------------------|------------------|
| Insulation | Basic insulation |
| Overvoltage category | III |
| Pollution degree | 2 |

Electrical properties

| | |
|---|--------------------------|
| Maximum power dissipation for nominal condition | 0.1 W |
| Test voltage (Input/output) | 2.5 kV AC (Input/output) |

Input data

| | |
|--|-----------------------------|
| Nominal input voltage U_N | 12 V DC |
| Input voltage range in reference to U_N | 0.8 ... 1.2 |
| Input voltage range | 9.6 V DC ... 14.4 V DC |
| Switching threshold "0" signal in reference to U_N | ≤ 0.4 |
| Switching threshold "1" signal in reference to U_N | ≥ 0.8 |
| Typical input current at U_N | 8.5 mA |
| Typical response time | 40 μ s |
| Typical turn-off time | 200 μ s |
| Operating voltage display | Yellow LED |
| Protective circuit | Reverse polarity protection |
| Transmission frequency | 300 Hz |

Output data

| | |
|--------------------------|--------------------|
| Contact switching type | 1 N/O contact |
| Design of digital output | electronic |
| Output voltage range | 3 V DC ... 30 V DC |

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| | |
|--|--|
| Limiting continuous current | 3 A (see derating curve) |
| Voltage drop at max. limiting continuous current | ≤ 0.2 V |
| Output circuit | 2-conductor, floating |
| Protective circuit | Reverse polarity protection; Polarity protection diode |
| | Surge protection |

Connection data

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|----------------------------------|---|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section rigid | 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 ... 14 |
| Tightening torque | 0.5 Nm |

Dimensions

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

Material specifications

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|-------|------------------|
| Color | green (RAL 6021) |
|-------|------------------|

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

Standards/regulations

| | |
|-----------------------|---------------|
| Standards/regulations | IEC 60947-5-1 |
|-----------------------|---------------|

Mounting

| | |
|-----------------------|---------------------------|
| Mounting type | DIN rail mounting |
| Assembly instructions | in rows with zero spacing |
| Mounting position | any |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27371604 |
| ECLASS-12.0 | 27371604 |
| ECLASS-13.0 | 27371604 |

ETIM

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| ETIM 9.0 | EC001504 |
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UNSPSC

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| UNSPSC 21.0 | 39122300 |
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Environmental product compliance

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|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| | Hexahydromethylphthalic anhydride |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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