

DEK-OV- 12DC/240AC/800 - Solid-state relay terminal block



2964636

<https://www.phoenixcontact.com/us/products/2964636>

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Power solid-state relay terminal block, input: 12 V DC, output: 10 - 253 V AC/800 mA, terminal block width: 6.2 mm

Your advantages

- EB-DIK insertion bridges
- Actuator version available
- 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
- Electrical isolation between input and output at up to 2.5 kVrms
- Zero voltage switch at AC output
- Status indicator
- Integrated input circuit

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2964636 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | C460 |
| Product key | DK61A1 |
| GTIN | 4017918130916 |
| Weight per piece (including packing) | 20.86 g |
| Weight per piece (excluding packing) | 20.86 g |
| Customs tariff number | 85364190 |
| Country of origin | CN |

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Technical data

Notes

| | |
|---------------------|--|
| Order information: | The housing is open on one side. The appropriate cover is D-DEK 1,5 GN (2716949). |
| Note on application | 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: Standards/regulations

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

Data management status

| | |
|------------------------------|------------|
| Date of last data management | 01.04.2026 |
|------------------------------|------------|

Electrical properties

| | |
|-----------------------------|--------------------------|
| 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 | 10.5 mA |
| Typical response time | < 10 ms |
| Typical turn-off time | < 10 ms |
| Operating voltage display | Yellow LED |
| Protective circuit | Reverse polarity protection; Polarity protection diode Surge protection |
| Transmission frequency | 10 Hz |

Output data

| | |
|------------------------|---------------|
| Contact switching type | 1 N/O contact |
|------------------------|---------------|

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| | |
|--|---|
| Design of digital output | electronic |
| Output voltage range | 10 V AC ... 253 V AC (50/60 Hz) |
| Limiting continuous current | 0.8 A (see derating curve) |
| Maximum inrush current | 30 A (t = 10 ms) |
| Min. load current | 10 mA |
| Leakage current | 1.2 mA (in off state) |
| Phase angle cos phi min | 0.5 |
| Max. load value | 4.5 A ² s |
| Peak offstate voltage | 600 V (Periodic peak reverse voltage) |
| Voltage drop at max. limiting continuous current | ≤ 1 V |
| Output circuit | 2-conductor floating, zero voltage switch |
| Protective circuit | RCV circuit; RCV circuit |

Connection data

| | |
|----------------------------------|---|
| 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 | 0.4 Nm ... 0.5 Nm |

Dimensions

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

Material specifications

| | |
|-------|------------------|
| 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 note | in rows with zero spacing |
| Mounting position | any |

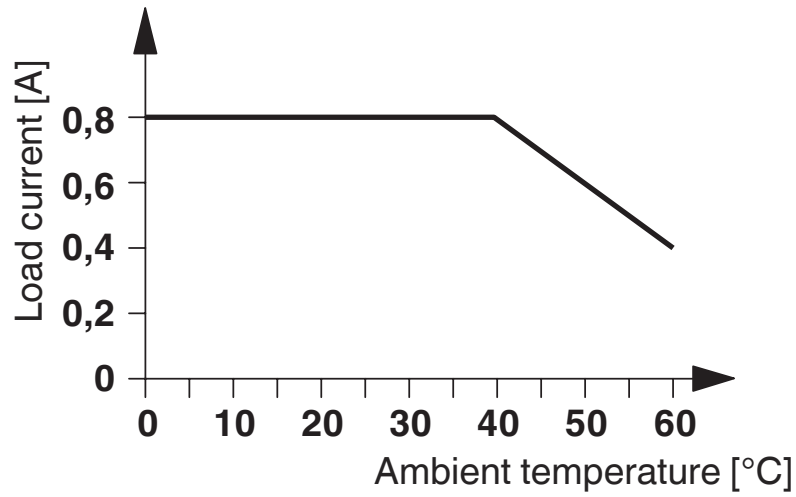
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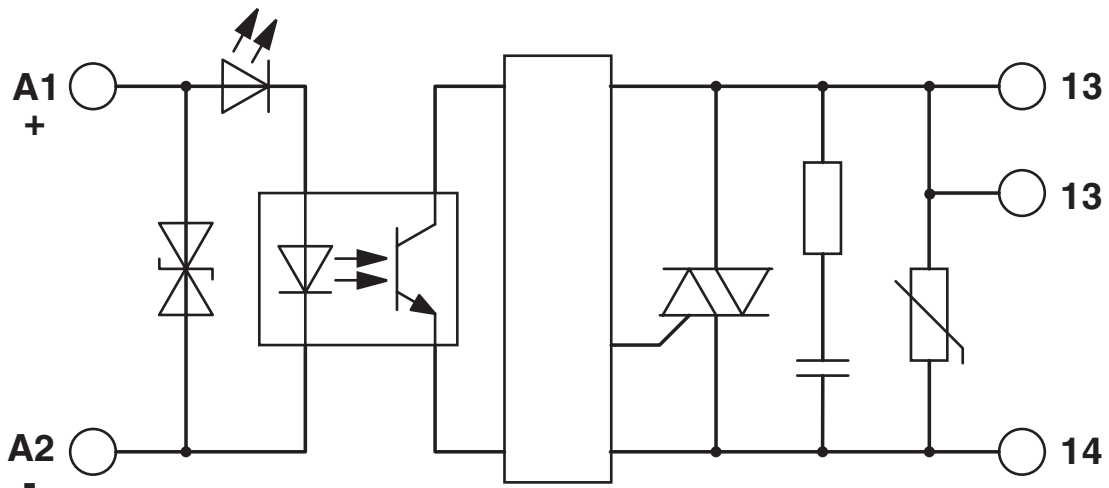
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Drawings

Diagram



Circuit diagram



1 = zero voltage switch

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27371604 |
| ECLASS-15.0 | 27371604 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001504 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|---|
| REACH candidate substance (CAS No.) | Hexahydromethylphthalic anhydride(CAS: n/a) |
| | Lead(CAS: 7439-92-1) |
| SCIP | 722c393e-cf20-433a-8b07-07448ee4e46d |

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