

DEK-OE-125DC/ 48DC/100/T - Solid-state relay terminal block



2940294

<https://www.phoenixcontact.com/us/products/2940294>

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Input solid-state relay terminal block, input: 125 V DC, output: 3 - 48 V DC/100 mA, with isolating plug in output, terminal block width: 6.2 mm

Commercial data

| | |
|--------------------------------------|-------------------|
| Item number | 2940294 |
| Packing unit | 1 pc |
| Sales key | C460 |
| Product key | CK61A1 |
| Catalog page | Page 71 (IF-2002) |
| GTIN | 4017918079994 |
| Weight per piece (including packing) | 21.5 g |
| Weight per piece (excluding packing) | 21.5 g |
| Customs tariff number | 85364900 |
| 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 | Input function |
| Operating mode | 100% operating factor |

Data management status

| | |
|------------------------------|------------|
| Date of last data management | 03.05.2024 |
| Article revision | 18 |

Insulation characteristics

| | |
|---------------------|-----|
| Oversupply category | III |
| Pollution degree | 2 |

Electrical properties

| | |
|-----------------------------|--------------------------|
| Test voltage (Input/output) | 2.5 kV AC (Input/output) |
|-----------------------------|--------------------------|

Input data

| | |
|---|---|
| Nominal input voltage U_N | 125 V DC |
| Input voltage range in reference to U_N | 0.9 ... 1.1 |
| Input voltage range | 112.5 V DC ... 137.5 V DC |
| Switching threshold "0" signal, voltage | ≤ 50 V |
| Switching threshold "1" signal voltage | ≥ 100 V |
| Typical input current at U_N | 3 mA |
| Typical response time | 40 μ s (delay) |
| Typical turn-off time | 40 μ s (delay) |
| Status display | LED (yellow) |
| Protective circuit | Reverse polarity protection; Bridge rectifier |
| Transmission frequency | 30 Hz |

Output data

| | |
|--------------------------|---------------|
| Contact switching type | 1 N/O contact |
| Design of digital output | electronic |

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| | |
|--|--|
| 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 | 2-conductor, floating |
| Protective circuit | Reverse polarity protection; Polarity protection diode |
| | Surge protection |

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 | 0.5 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 | IEC 60664 |
| | IEC 60664A |
| | DIN VDE 0110 |

Mounting

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

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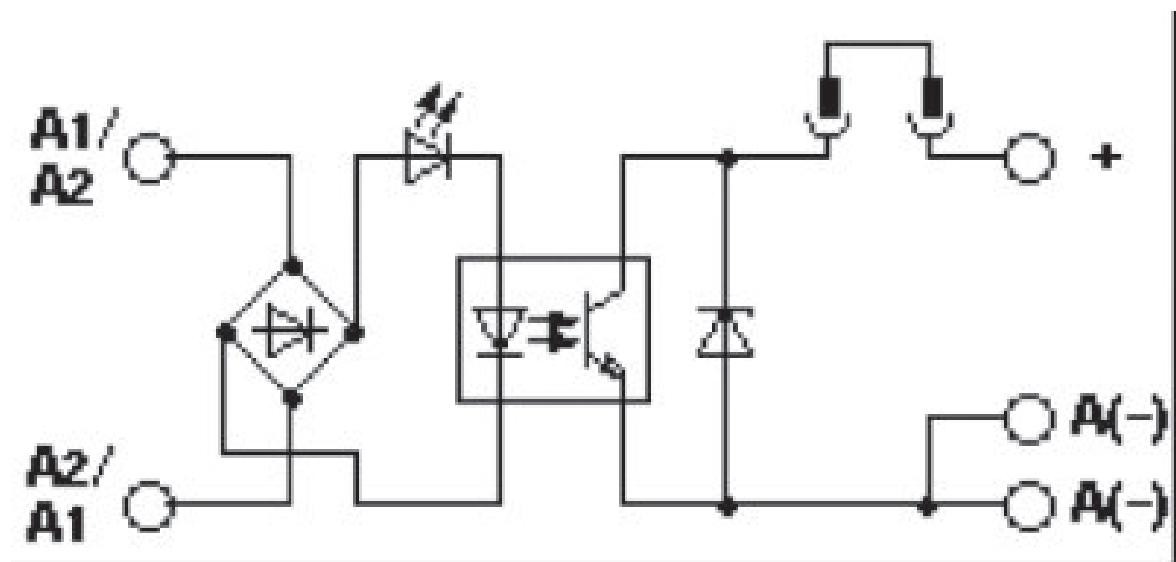


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Drawings

Circuit diagram



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Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 9.0 | 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 | 1f3ff541-6629-4e61-a77e-10f0bb5996bc |

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