

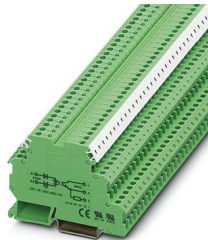
# DEK-OE-230AC/ 48DC/100/SO 46 - Solid-state relay terminal block



2964678

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

## Your advantages

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

## Commercial data

Item number	2964678
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C460
Product key	DK61A1
GTIN	4017918131067
Weight per piece (including packing)	21.805 g
Weight per piece (excluding packing)	21.805 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	Filter to prevent interference
Operating mode	100% operating factor

### Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

### Data management status

Date of last data management	01.04.2026
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### Electrical properties

Test voltage (Input/output)	2.5 kV AC (Input/output)
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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
Input voltage range	207 V AC ... 253 V AC
Switching threshold "0" signal, voltage	$\leq 92$ 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
Protective circuit	Surge protection; Varistor RC element; RC element
Transmission frequency	5 Hz

### Output data

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Contact switching type	1 N/O contact
Design of digital output	electronic
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
Protective circuit	Reverse polarity protection; Polarity protection diode Free running; Freewheeling diode

## Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	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 ... 14
Tightening torque	0.4 Nm ... 0.5 Nm

## Dimensions

### Item dimensions

Width	6.2 mm
Height	80 mm
Depth	56 mm

## Material specifications

Color	green (RAL 6021)
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## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

Standards/regulations	IEC 60947-5-1
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## Mounting

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

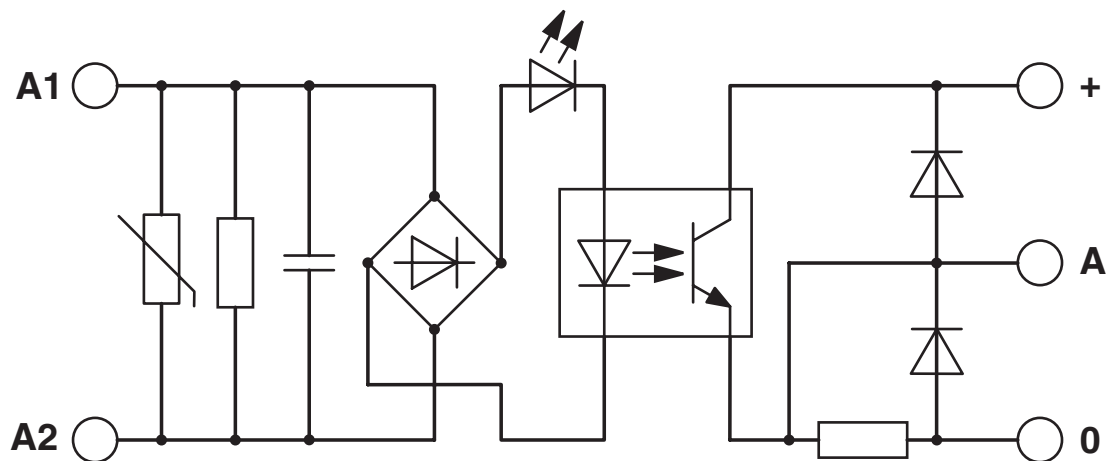
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## Drawings

Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

### ETIM

ETIM 10.0	EC001504
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### 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.)	Lead(CAS: 7439-92-1)
SCIP	423d3e8f-0843-48cf-a7c2-0f71ce380bf2

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