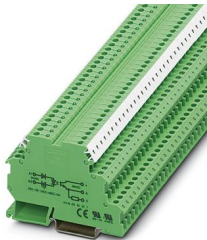


2964678
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Solid-state relay interface designed to prevent interference on the control side, input: 230 V AC, output: 48 V DC/100 mA

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
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

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



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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	15.09.2025
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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	≤ 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 mm² ... 2.5 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
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)
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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

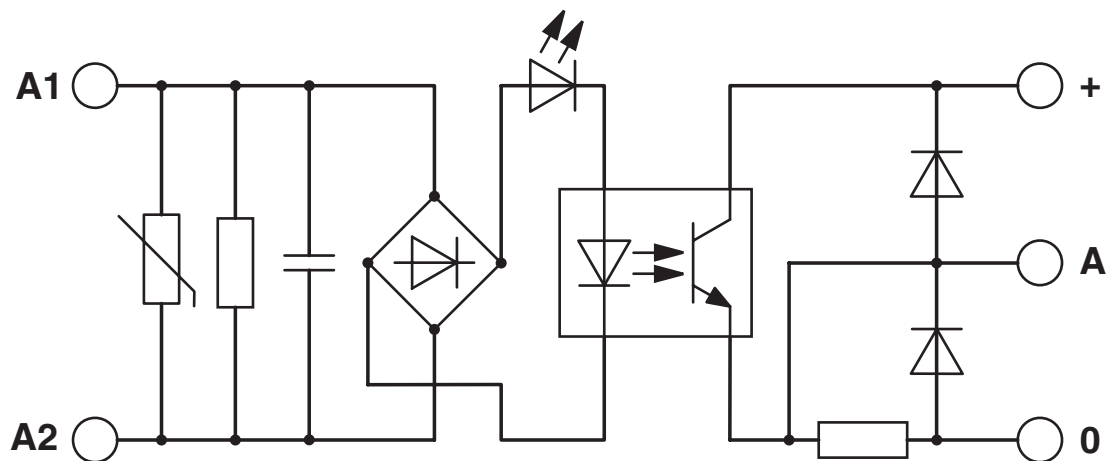
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Drawings

Circuit diagram



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



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Approvals

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2964678>



EAC

Approval ID: RU*C-DE.*08.B.00010

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



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Classifications

ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

ETIM

ETIM 9.0	EC001504
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UNSPSC

UNSPSC 21.0	39122300
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DEK-OE-230AC/ 48DC/100/SO 46 - Solid-state relay terminal block



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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

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



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Accessories

 Note: Applying some accessories below might limit this product.

EB 2- DIK RD - Insertion bridge

2716693

<https://www.phoenixcontact.com/pc/products/2716693>



Insertion bridge, pitch: 6.15 mm, number of positions: 2, color: red

 Max. current carrying capacity: 26 A

EB 3- DIK RD - Insertion bridge

2716745

<https://www.phoenixcontact.com/pc/products/2716745>



Insertion bridge, pitch: 6.15 mm, number of positions: 3, color: red

 Max. current carrying capacity: 26 A

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



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EB 4- DIK RD - Insertion bridge

2716758

<https://www.phoenixcontact.com/pc/products/2716758>



Insertion bridge, pitch: 6.15 mm, number of positions: 4, color: red

 Max. current carrying capacity: 26 A

EB 5- DIK RD - Insertion bridge

2716761

<https://www.phoenixcontact.com/pc/products/2716761>



Insertion bridge, pitch: 6.15 mm, number of positions: 5, color: red

 Max. current carrying capacity: 26 A

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



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EB 10- DIK RD - Insertion bridge

2716774

<https://www.phoenixcontact.com/pc/products/2716774>

Insertion bridge, pitch: 6.15 mm, number of positions: 10, color: red



 Max. current carrying capacity: 26 A

EB 80- DIK RD - Insertion bridge

2715953

<https://www.phoenixcontact.com/pc/products/2715953>

Insertion bridge, pitch: 6.2 mm, number of positions: 80, color: red



 Max. current carrying capacity: 26 A

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



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EB 5- DIK BU - Insertion bridge

2716677

<https://www.phoenixcontact.com/pc/products/2716677>



Insertion bridge, pitch: 6.15 mm, number of positions: 5, color: blue

 Max. current carrying capacity: 26 A

EB 10- DIK BU - Insertion bridge

2716680

<https://www.phoenixcontact.com/pc/products/2716680>



Insertion bridge, pitch: 6.15 mm, number of positions: 10, color: blue

 Max. current carrying capacity: 26 A

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



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EB 80- DIK BU - Insertion bridge

2715940

<https://www.phoenixcontact.com/pc/products/2715940>

Insertion bridge, pitch: 6.2 mm, number of positions: 80, color: blue



 Max. current carrying capacity: 26 A

D-DEK 1,5 GN - Separating plate

2716949

<https://www.phoenixcontact.com/pc/products/2716949>

Cover for setting the end of a terminal row, color: green



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



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ZB 6:UNBEDRUCKT - Zack marker strip

1051003

<https://www.phoenixcontact.com/pc/products/1051003>



Zack marker strip, Strip, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

ZB 6,LGS:FORTL.ZAHLEN - Zack marker strip

1051016

<https://www.phoenixcontact.com/pc/products/1051016>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

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



2964678

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ZB 6/WH-100:UNBEDRUCKT - Zack marker strip

5060935

<https://www.phoenixcontact.com/pc/products/5060935>

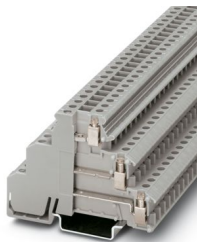


Zack marker strip, Strip, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 1000, text field height: 10.5 mm, text field width: 6.15 mm

DIKD 1,5 - Initiator/actuator terminal block

2715979

<https://www.phoenixcontact.com/pc/products/2715979>



Initiator/actuator terminal block, nom. voltage: 250 V, nominal current: 24 A, connection method: Screw connection, 1st, 2nd and 3rd level, Rated cross section: 2.5 mm², cross section: 0.2 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

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