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

Key Commercial Data

Packing unit	10 pc
GTIN	4 017918 131067
GTIN	4017918131067

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
Type of note	Order information:
Note	The housing is open on one side. The appropriate cover is D-DEK 1,5 GN (2716949).
Type of note	Note on application
Note	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.

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Technical data

Dimensions

Width	6.2 mm
Height	80 mm
Depth	56 mm

Ambient conditions

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

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
Type of protection	Surge protection
	RC element
Protective circuit/component	Varistor
	RC element
Transmission frequency	5 Hz

Output data

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
Type of protection	Reverse polarity protection
	Free running
Protective circuit/component	Polarity protection diode
	Damping diode

General

Test voltage input/output	2.5 kV AC
	2.5 kV AC
Mounting position	any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor

Connection data

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Technical data

Connection data

Connection name	Input side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12
Torque	0.5 Nm

Connection data 2

Connection name	Output side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12
Torque	0.5 Nm

Standards and Regulations

Standards/regulations	IEC 60664
	EN 50178
Insulation	Basic insulation
Pollution degree	2
Overvoltage category	III

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

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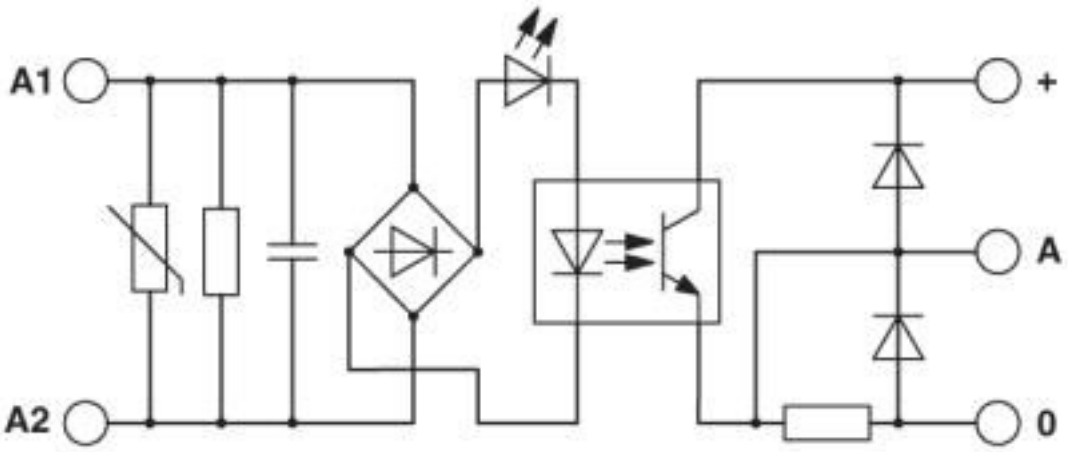
Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27371604
eCl@ss 4.0	27371100
eCl@ss 4.1	27371100
eCl@ss 5.0	27371000
eCl@ss 5.1	27371000
eCl@ss 6.0	27371600
eCl@ss 7.0	27371604
eCl@ss 8.0	27371604
eCl@ss 9.0	27371604

ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504
ETIM 5.0	EC001504
ETIM 6.0	EC001504
ETIM 7.0	EC001504

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39122326
UNSPSC 18.0	39122326

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Classifications

UNSPSC

UNSPSC 19.0	39122326
UNSPSC 20.0	39122326
UNSPSC 21.0	39122326

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approval details

EAC	EAC	TR_TS_D_00573_c
EAC	EAC	RU*C-DE.*08.B.00010

Accessories

Accessories

Insertion bridge

Insertion bridge - EB 2- DIK RD - 2716693

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

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Accessories

Insertion bridge - EB 3- DIK RD - 2716745

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

Insertion bridge - EB 4- DIK RD - 2716758

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

Insertion bridge - EB 5- DIK RD - 2716761

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

Insertion bridge - EB 10- DIK RD - 2716774

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

Insertion bridge - EB 2- DIK BU - 2716648

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

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Accessories

Insertion bridge - EB 3- DIK BU - 2716651

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

Insertion bridge - EB 4- DIK BU - 2716664

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

Insertion bridge - EB 5- DIK BU - 2716677

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

Insertion bridge - EB 10- DIK BU - 2716680

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

Insertion bridge - EB 80- DIK BU - 2715940

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

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Accessories

Insertion bridge - EB 80- DIK RD - 2715953

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

Insertion bridge - EB 80- DIK WH - 2715788

Insertion bridge, pitch: 6.15 mm, number of positions: 80, color: white

Labeled terminal marker

Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 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: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Partition plate

Separating plate - D-DEK 1,5 GN - 2716949

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

Sensor/actuator terminal block

Sensor/actuator terminal block - DIKD 1,5 - 2715979

Sensor/actuator terminal block, connection method: Screw connection, cross section: 0.2 mm² - 4 mm², AWG: 24 - 12, width: 6.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

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Accessories

Terminal marking

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003

Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Zack marker strip - ZB 6/WH-100:UNBEDRUCKT - 5060935

Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

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