

## Solid-state relay terminal block - DEK-OE-230AC/ 48DC/100 - 2940210

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Input solid-state relay terminal block, input: 230 V AC, output: 3 - 48 V DC/100 mA, terminal block width: 6.2 mm


The figure shows the version DEK-OE- 24DC/48DC/100

### Why buy this product

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



### Key Commercial Data

Packing unit	10 STK
GTIN	 4 017918 079918
GTIN	4017918079918

### Technical data

#### Dimensions

Width	6.2 mm
Height	80 mm
Depth	56 mm

#### Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

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## Technical data

### 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
Switching threshold "0" signal in reference to $U_N$	$\leq 0.4$
Switching threshold "1" signal voltage	$\geq 207$ V
Switching threshold "1" signal in reference to $U_N$	$\geq 0.9$
Typical input current at $U_N$	2.5 mA
Typical response time	10 ms
Typical turn-off time	20 ms
Operating voltage display	Yellow LED
Type of protection	Reverse polarity protection
	Surge protection
Transmission frequency	3 Hz

### Output data

Output voltage range	3 V DC ... 48 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	$\leq 0.9$ V
Output circuit	2-conductor floating, 3-conductor ground-referenced
Type of protection	Reverse polarity protection
	Free-wheeling diode
Protective circuit/component	Polarity protection diode
	Damping diode
Output resistor	approx. 22 k $\Omega$ (for 3-wire operation)

### Connection data, input side

Connection name	Input side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	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 ... 12
Torque	0.5 Nm

### Connection data, output side

Connection name	Output side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

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## Technical data

### Connection data, output side

Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 ... 12
Torque	0.5 Nm

### General

Test voltage input/output	2.5 kV AC
Mounting position	any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Designation	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
Degree of pollution	2
Overvoltage category	III

### Standards and Regulations

Designation	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
Insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

### Environmental Product Compliance

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

## Approvals

### Approvals

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Approvals

EAC

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Ex Approvals

### Approval details

## Solid-state relay terminal block - DEK-OE-230AC/ 48DC/100 - 2940210

### Approvals

EAC



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DE.A\*30.B.01742

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