

# Solid-state relay terminal block - DEK-OE- 12DC/48DC/100 - 2964487

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Input solid-state relay terminal block, input: 12 V DC, output: 3 - 48 V DC/100 mA, terminal block width: 6.2 mm

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

## Product Features

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



## Key commercial data

<b>package_quantity</b>	10
<b>GTIN</b>	4017918125141

## Technical data

### Note

<b>Utilization restriction</b>	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

<b>Width</b>	6.2 mm
<b>Height</b>	80 mm
<b>Depth</b>	56 mm

### Ambient conditions

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

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## Technical data

### Input data

Nominal input voltage $U_N$	12 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.2
Switching threshold "0" signal in reference to $U_N$	$\leq 0.4$
Switching threshold "1" signal in reference to $U_N$	$\geq 0.8$
Typical input current at $U_N$	11 mA
Typical response time	20 $\mu$ s
Typical turn-off time	200 $\mu$ s
Operating voltage display	Yellow LED
Type of protection	Protection against polarity reversal
Transmission frequency	300 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	Protection against polarity reversal
Type of protection	Free-wheeling diode
Protective circuit/component	Polarity protection diode
Protective circuit/component	Damping diode
Output resistor	approx. 22 k $\Omega$ (for 3-wire operation)

### Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14

### 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
Standards/regulations	EN 50178

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## Technical data

### General

<b>Standards/regulations</b>	IEC 62103
<b>Rated surge voltage / insulation</b>	Basic insulation
<b>Pollution degree</b>	2
<b>Surge voltage category</b>	III

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27371102
<b>eCl@ss 4.1</b>	27371102
<b>eCl@ss 5.0</b>	27371001
<b>eCl@ss 5.1</b>	27371001
<b>eCl@ss 6.0</b>	27371001
<b>eCl@ss 7.0</b>	27371001
<b>eCl@ss 8.0</b>	27371001

### ETIM

<b>ETIM 2.0</b>	EC001504
<b>ETIM 3.0</b>	EC001504
<b>ETIM 4.0</b>	EC001504
<b>ETIM 5.0</b>	EC001504

### UNSPSC

<b>UNSPSC 6.01</b>	30211916
<b>UNSPSC 7.0901</b>	39121542
<b>UNSPSC 11</b>	39121542
<b>UNSPSC 12.01</b>	39121542
<b>UNSPSC 13.2</b>	39121542

## approvals

GOST /

### Approval details



## accessories

### Partition plate

## Solid-state relay terminal block - DEK-OE- 12DC/ 48DC/100 - 2964487

accessories

D-DEK 1,5 GN - 2716949



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### Sensor/actuator terminal block

DIKD 1,5 - 2715979



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### Terminal marking

ZB 6:UNBEDRUCKT - 1051003



ZB 6/WH-100:UNBEDRUCKT - 5060935



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### Labeled terminal marker

ZB 6,LGS:FORTL.ZAHLEN - 1051016



## Solid-state relay terminal block - DEK-OE- 12DC/ 48DC/100 - 2964487

accessories

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### Bridge

EB 2- DIK RD - 2716693



EB 3- DIK RD - 2716745



EB 4- DIK RD - 2716758



EB 5- DIK RD - 2716761



EB 10- DIK RD - 2716774



## Solid-state relay terminal block - DEK-OE- 12DC/ 48DC/100 - 2964487

### accessories

EB 2- DIK BU - 2716648



EB 3- DIK BU - 2716651



EB 4- DIK BU - 2716664



EB 5- DIK BU - 2716677



EB 10- DIK BU - 2716680



## Solid-state relay terminal block - DEK-OE- 12DC/ 48DC/100 - 2964487

### accessories

EB 80- DIK BU - 2715940



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EB 80- DIK RD - 2715953



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EB 80- DIK WH - 2715788



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### Drawings

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Circuit diagram

