

# Solid-state relay terminal block - DEK-OV- 24DC/ 24DC/ 10 - 2964322

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Power solid-state relay terminal block with short-circuit-proof DC voltage output, input: 24 V DC, output: 3 - 33 V DC/10 A

## Product Features

- 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
- Zero voltage switch at AC output
- Status indicator
- Electrical isolation between input and output at up to 2.5 kVrms
- Integrated input circuit



## Key commercial data

<b>package_quantity</b>	10
<b>GTIN</b>	4017918893194

## 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

### Input data

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## Technical data

### Input data

Nominal input voltage $U_N$	24 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 $U_N$	3.5 mA
Typical response time	250 $\mu$ s
Typical turn-off time	800 $\mu$ s
Operating voltage display	Yellow LED
Type of protection	Protection against polarity reversal
Type of protection	Surge protection
Transmission frequency	100 Hz

### Output data

Output voltage range	5 V DC ... 30 V DC
Limiting continuous current	10 A (see derating curve)
Surge current	100 A ( $t = 20$ ms)
Voltage drop at max. limiting continuous current	$\leq 50$ mV
Output circuit	3-conductor, ground-referenced
Type of protection	Protection against polarity reversal
Type of protection	Surge protection

### 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
Name	Standards/regulations
Standards/regulations	IEC 60664
Standards/regulations	EN 50178
Standards/regulations	IEC 62103

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## Technical data

### General

Rated surge voltage / insulation	Basic insulation
Pollution degree	2
Surge voltage category	II

## classifications

### eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371001

### ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504
ETIM 5.0	EC001504

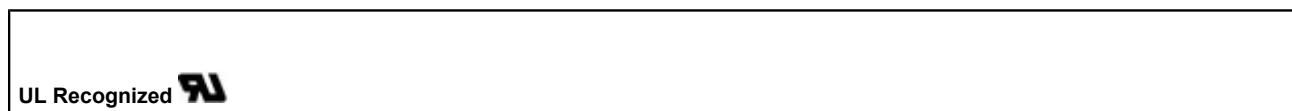
### UNSPSC

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

## approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized /

### Approval details



# Solid-state relay terminal block - DEK-OV- 24DC/ 24DC/ 10 - 2964322

approvals



accessories

## Partition plate

D-DEK 1,5 GN - 2716949



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## Bridge

EB 2- DIK RD - 2716693



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EB 3- DIK RD - 2716745



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EB 4- DIK RD - 2716758



## Solid-state relay terminal block - DEK-OV- 24DC/ 24DC/ 10 - 2964322

### accessories

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EB 5- DIK RD - 2716761



EB 10- DIK RD - 2716774



EB 2- DIK BU - 2716648



EB 3- DIK BU - 2716651



EB 4- DIK BU - 2716664



## Solid-state relay terminal block - DEK-OV- 24DC/ 24DC/ 10 - 2964322

### accessories

EB 5- DIK BU - 2716677



EB 10- DIK BU - 2716680



EB 80- DIK BU - 2715940



EB 80- DIK RD - 2715953



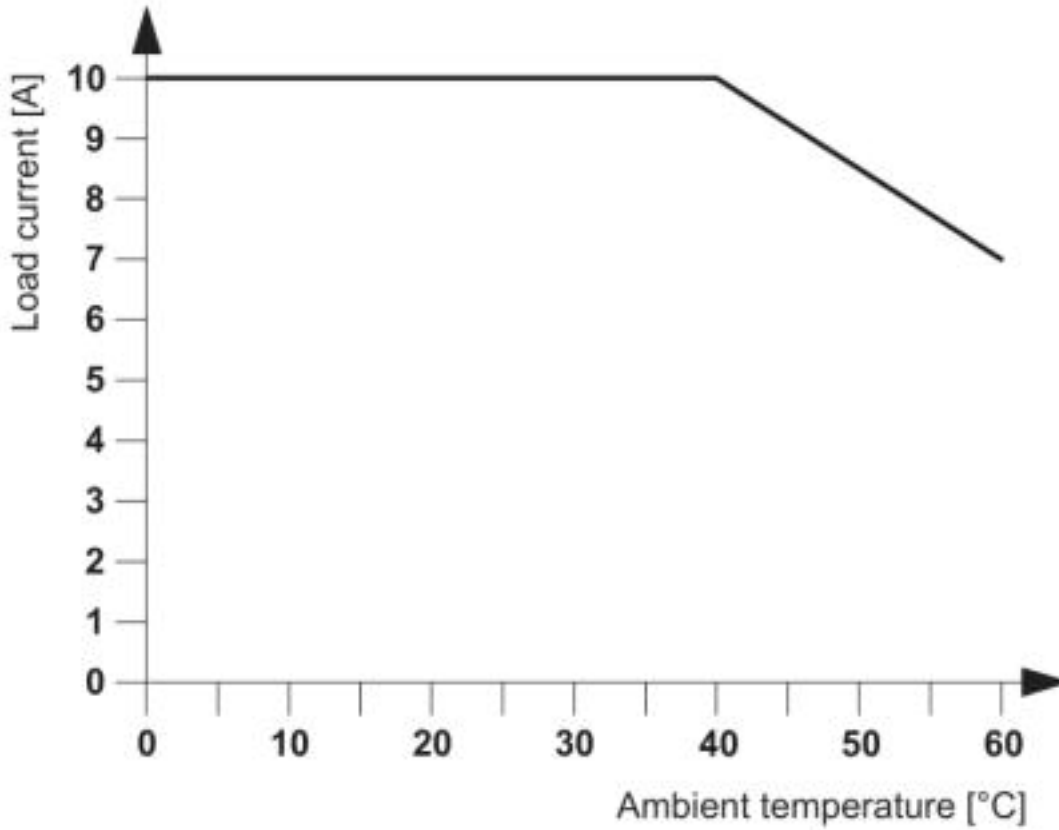
EB 80- DIK WH - 2715788



### Drawings

# Solid-state relay terminal block - DEK-OV- 24DC/ 24DC/ 10 - 2964322

Diagram



Circuit diagram

