

## Solid-state relay terminal block - DEK-OV- 5DC/ 24DC/ 10 - 2961752

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Power solid-state relay terminal block, input: DC voltage, output: DC voltage, input voltage: 5 V DC

### Your advantages

- ✓ 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
- ✓ Electrical isolation between input and output at up to 2.5 kVrms
- ✓ Status indicator
- ✓ Integrated input circuit



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 927950
GTIN	4017918927950
Weight per Piece (excluding packing)	28.970 g
Custom tariff number	85364190
Country of origin	China

### Technical data

#### Note

# Solid-state relay terminal block - DEK-OV- 5DC/ 24DC/ 10 - 2961752

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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.

### 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

### Input data

Nominal input voltage $U_N$	5 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.2
Input voltage range	4 V DC ... 6 V DC
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 $U_N$	5.1 mA
Typical response time	250 $\mu$ s
Typical turn-off time	800 $\mu$ s
Operating voltage display	Yellow LED
Type of protection	Reverse polarity 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	< 50 mV
Output circuit	3-conductor, ground-referenced

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## Technical data

### Output data

Type of protection	Reverse polarity protection
	Surge protection

### General

Test voltage input/output	2.5 kV AC
	2.5 kV (50 Hz, 1 min.)
Mounting position	any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor

### Connection data

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 ... 14
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 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 ... 14
Torque	0.5 Nm

### Standards and Regulations

Connection in acc. with standard	CUL
Designation	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
Insulation	Basic insulation
Pollution degree	2
Overvoltage category	III

### Environmental Product Compliance

## Solid-state relay terminal block - DEK-OV- 5DC/ 24DC/ 10 - 2961752

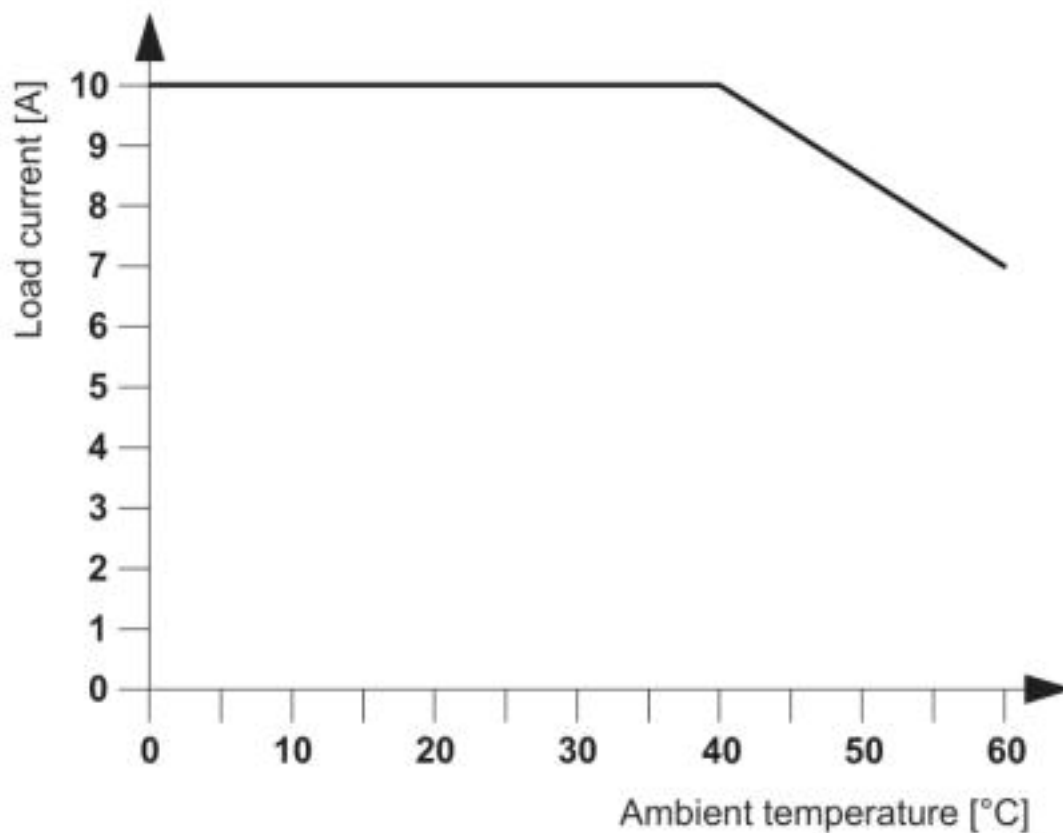
### Technical data

#### 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"

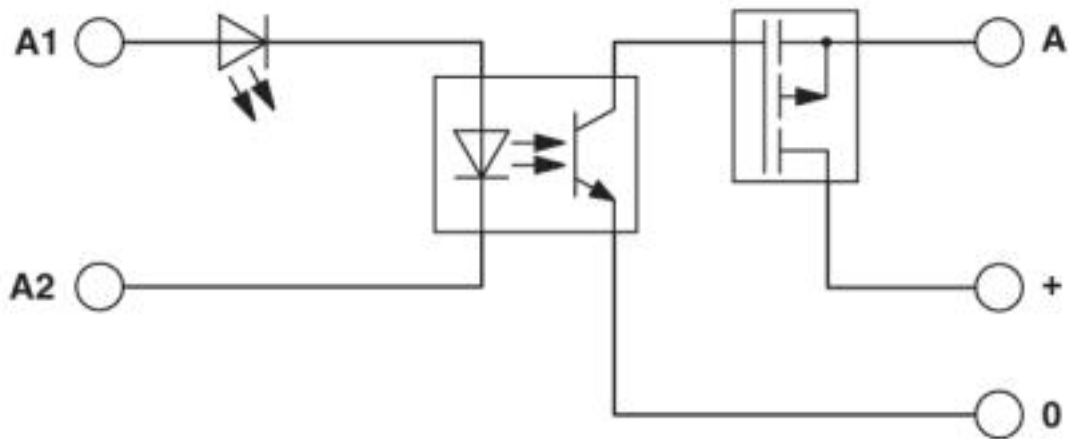
### Drawings

Diagram



Solid-state relay terminal block - DEK-OV- 5DC/ 24DC/ 10 - 2961752

Circuit diagram



Classifications

eCl@ss

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

## Solid-state relay terminal block - DEK-OV- 5DC/ 24DC/ 10 - 2961752

### Classifications

#### UNSPSC

UNSPSC 18.0	39122326
UNSPSC 19.0	39122326
UNSPSC 20.0	39122326
UNSPSC 21.0	39122326

### Approvals

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UL Recognized / cUL Recognized / EAC / cULus Recognized

#### Ex Approvals

#### Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
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cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
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EAC			TR_TS_D_00573_c
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cULus Recognized			
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### Accessories

#### Accessories

Insertion bridge

## Solid-state relay terminal block - DEK-OV- 5DC/ 24DC/ 10 - 2961752

### Accessories

Insertion bridge - EB 2- DIK RD - 2716693



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

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Insertion bridge - EB 3- DIK RD - 2716745



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

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Insertion bridge - EB 4- DIK RD - 2716758



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

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Insertion bridge - EB 5- DIK RD - 2716761



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

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Insertion bridge - EB 10- DIK RD - 2716774



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

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## Solid-state relay terminal block - DEK-OV- 5DC/ 24DC/ 10 - 2961752

### Accessories

Insertion bridge - EB 2- DIK BU - 2716648



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

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Insertion bridge - EB 3- DIK BU - 2716651



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

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Insertion bridge - EB 4- DIK BU - 2716664



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

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Insertion bridge - EB 5- DIK BU - 2716677



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

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Insertion bridge - EB 10- DIK BU - 2716680



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

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## Solid-state relay terminal block - DEK-OV- 5DC/ 24DC/ 10 - 2961752

### Accessories

Insertion bridge - EB 80- DIK BU - 2715940



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

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

## Solid-state relay terminal block - DEK-OV- 5DC/ 24DC/ 10 - 2961752

### Accessories

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#### Sensor/actuator terminal block

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



Sensor/actuator terminal block, connection method: Screw connection, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 24 - 12, width: 6.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

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#### 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

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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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