

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



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

## 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
- 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

## Commercial Data

Item number	2964322
Packing unit	10 pc
Minimum order quantity	1 pc
Sales Key	CK6
Product Key	CK61D2
Catalog Page	Page 443 (C-5-2019)
GTIN	4017918893194
Weight per Piece (including packing)	25.5 g
Weight per Piece (excluding packing)	25.5 g
Customs tariff number	85364190
Country of origin	CN

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## Technical Data

### Notes

Order information:	The housing is open on one side. The appropriate cover is D-DEK 1,5 GN (2716949).
Note on application	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.

### Product properties

Product type	Solid-state relay module
Product family	DEK
Application	Output function
Operating mode	100% operating factor

### Insulation characteristics

Insulation	Basic insulation
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### Insulation characteristics: Standards/regulations

Insulation	Basic insulation
Overvoltage category	II
Pollution degree	2

### Electrical properties

Maximum power dissipation for nominal condition	0.5 W
Test voltage (Input/output)	2.5 kV AC (Input/output)

### Input data

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.2
Input voltage range	19.2 V DC ... 28.8 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 $U_N$	3.5 mA
Typical response time	250 $\mu$ s
Typical turn-off time	800 $\mu$ s
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection Surge protection
Transmission frequency	100 Hz

### Output data

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Contact type	1 N/O contact
Design of digital output	electronic
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
Protective circuit	Reverse polarity protection Surge protection

## Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	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
Tightening torque	0.5 Nm

## Dimensions

Width	6.2 mm
Height	80 mm
Depth	56 mm

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

### Standards/regulations

Standards/regulations	IEC 60947-5-1
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## Mounting

Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any

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