

DEK-OV- 12DC/ 24DC/ 3 - Solid-state relay terminal block



2941387

<https://www.phoenixcontact.com/in/products/2941387>

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Power solid-state relay terminal block, input: 12 V DC, output: 3 - 30 V DC/3 A, terminal block width: 6.2 mm

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

Commercial Data

Item number	2941387
Packing unit	10 pc
Minimum order quantity	1 pc
Sales Key	CK6
Product Key	CK61D2
Catalog Page	Page 443 (C-5-2019)
GTIN	4017918080402
Weight per Piece (including packing)	22 g
Weight per Piece (excluding packing)	21.6 g
Customs tariff number	85364190
Country of origin	CN

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Technical Data

Notes

General	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.
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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	III
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	0.1 W
Test voltage (Input/output)	2.5 kV AC (Input/output)

Input data

Nominal input voltage U_N	12 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	9.6 V DC ... 14.4 V DC
Switching threshold "0" signal in reference to U_N	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	8.5 mA
Typical response time	40 μ s
Typical turn-off time	200 μ s
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection
Transmission frequency	300 Hz

Output data

Contact type	1 N/O contact
Design of digital output	electronic
Output voltage range	3 V DC ... 30 V DC

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Limiting continuous current	3 A (see derating curve)
Voltage drop at max. limiting continuous current	≤ 0.2 V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
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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