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Solid-state relay terminal block - DEK-OE- 24DC/ 48DC/100 - 2940207

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Input solid-state relay terminal block, input: 24 V DC, output: 3 - 48 V DC/100 mA, terminal block width: 6.2 mm

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

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 079901
Weight per Piece (excluding packing)	23.02 g
Country of origin	China

Technical data

Note

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

Dimensions

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Technical data

Dimensions

Width	6.2 mm
Height	80 mm
Depth	56 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C

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	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	7 mA
Typical response time	20 µs
Typical turn-off time	200 µs
Operating voltage display	Green LED
Type of protection	Reverse polarity protection
Transmission frequency	300 Hz
Power dissipation for nominal condition	10 mW

Output data

Output voltage range	3 V DC ... 48 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	≤ 0.9 V
Output circuit	2-conductor floating, 3-conductor ground-referenced
Type of protection	Reverse polarity protection
	Free-wheeling diode
Protective circuit/component	Polarity protection diode
	Damping diode
Output resistor	approx. 22 kΩ (for 3-wire operation)

Connection data, input side

Connection name	Input side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²

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Technical data

Connection data, input side

Conductor cross section AWG	24 ... 14
Torque	0.5 Nm

Connection data, output side

Connection name	Output side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 14
Torque	0.5 Nm

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
	EN 50178
	IEC 62103
Rated surge voltage/insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

Standards and Regulations

Connection in acc. with standard	CUL
Designation	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage/insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

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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	27371604
eCl@ss 9.0	27371604

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

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

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Approvals

UL Recognized

mm²/AWG/kcmil	30-14

cUL Recognized

mm²/AWG/kcmil	30-14

EAC

EAC

cULus Recognized

Accessories

Accessories

Insertion bridge

Insertion bridge - EB 2- DIK RD - 2716693

Insertion bridge, Pitch: 6.15 mm, Number of positions: 2, Color: red

Insertion bridge - EB 3- DIK RD - 2716745

Insertion bridge, Pitch: 6.15 mm, Number of positions: 3, Color: red

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Accessories

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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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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Accessories

Insertion bridge - EB 4- DIK BU - 2716664

Insertion bridge, Pitch: 6.15 mm, Number of positions: 4, Color: blue

Insertion bridge - EB 5- DIK BU - 2716677

Insertion bridge, Pitch: 6.15 mm, Number of positions: 5, Color: blue

Insertion bridge - EB 10- DIK BU - 2716680

Insertion bridge, Pitch: 6.15 mm, Number of positions: 10, Color: blue

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

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Accessories

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: 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: 6.15 x 10.5 mm

Partition plate

Separating plate - D-DEK 1,5 GN - 2716949

Cover for setting the end of a terminal row, color: green

Sensor/actuator terminal block

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

Sensor/actuator terminal block, Cross section: 0.2 mm² - 4 mm², AWG: 24 - 12, Connection type: Screw connection, Width: 6.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Terminal marking

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Accessories

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003

Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

Zack marker strip - ZB 6/WH-100:UNBEDRUCKT - 5060935

Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm