

Solid-state relay terminal block - DEK-OV- 12DC/ 24DC/ 10 - 2961749

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Power solid-state relay terminal block, input: DC voltage, output: DC voltage, input voltage: 12 V DC

Why buy this product

- EB-DIK insertion bridges
- Actuator version available
- 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
- Electrical isolation between input and output at up to 2.5 kVrms
- Zero voltage switch at AC output
- Integrated input circuit
- Status indicator



Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 927943
GTIN	4017918927943
Weight per Piece (excluding packing)	28.950 g
Custom tariff number	85364190
Country of origin	China

Technical data

Note

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Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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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	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	4.7 mA
Typical response time	250 μ s
Typical turn-off time	800 μ 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
Type of protection	Reverse polarity protection
	Surge protection

Connection data, input side

Connection name	Input side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3

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Technical data

Connection data, input side

Conductor cross section solid	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
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 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
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
Degree of pollution	2
Overvoltage category	III

Standards and Regulations

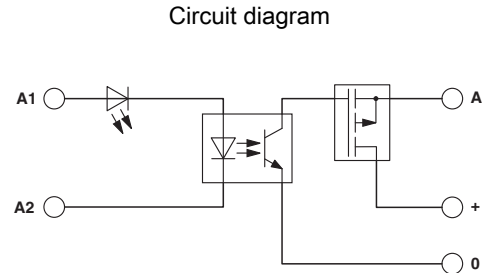
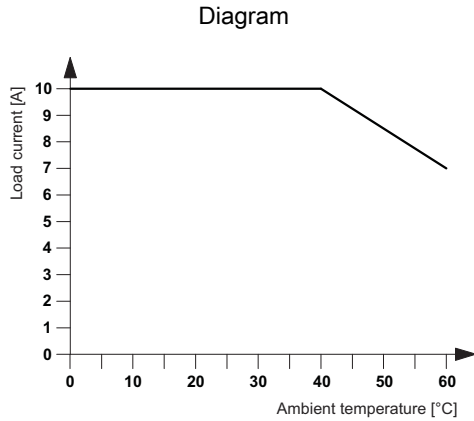
Connection in acc. with standard	CUL
Designation	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
Insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

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Drawings



Classifications

eCl@ss

eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371604
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

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39122326

Approvals

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Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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EAC			RU C- DE.A*30.B.01082
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cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	
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Accessories

Accessories

Insertion bridge

Insertion bridge - EB 2- DIK RD - 2716693



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

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Accessories

Insertion bridge - EB 3- DIK RD - 2716745



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

Insertion bridge - EB 4- DIK RD - 2716758



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

Insertion bridge - EB 5- DIK RD - 2716761



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

Insertion bridge - EB 10- DIK RD - 2716774



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

Insertion bridge - EB 2- DIK BU - 2716648



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

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Accessories

Insertion bridge - EB 3- DIK BU - 2716651



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

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

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Accessories

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: 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

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Accessories

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



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

Terminal marking

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, 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: CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm