Solid-state relay terminal block - DEK-OV- 24DC/240AC/800 - 2964649

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Power solid-state relay terminal block, input: 24 V DC, output: 10 - 253 V AC/800 mA, terminal block width: 6.2 mm

Your advantages

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

Key Commercial Data

Packing unit	10 pc
GTIN	4 017918 131043
GTIN	4017918131043

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)	-20 °C ... 70 °C

Input data

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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	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	10.7 mA
Typical response time	< 10 ms
Typical turn-off time	< 10 ms
Operating voltage display	Yellow LED
Type of protection	Reverse polarity protection
	Surge protection
Protective circuit/component	Polarity protection diode
Transmission frequency	10 Hz

Output data

Output voltage range	10 V AC ... 253 V AC (50/60 Hz)
Limiting continuous current	0.8 A (see derating curve)
Maximum inrush current	30 A (t = 10 ms)
Min. load current	10 mA
Leakage current	1.2 mA (in off state)
Max. load value	4.5 A^2s
Peak offstate voltage	600 V (Periodic peak reverse voltage)
Voltage drop at max. limiting continuous current	≤ 1 V
Output circuit	2-conductor floating, zero voltage switch
Type of protection	RCV circuit
Protective circuit/component	RCV circuit

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 ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12
Torque	0.5 Nm

Connection data, output side

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

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Connection data, output side

Conductor cross section solid	0.2 mm² ... 4 mm²
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Conductor cross section AWG	24 ... 12
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

Standards and Regulations

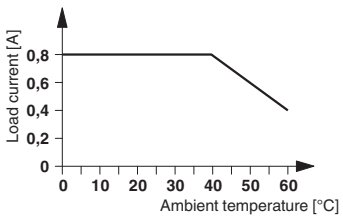
Designation	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
Insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

Environmental Product Compliance

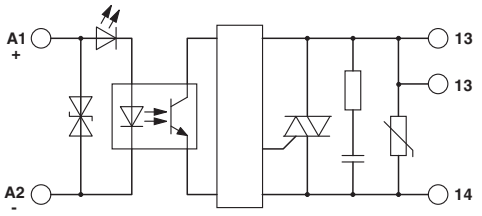
	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

Diagram



Circuit diagram



1 = zero voltage switch

Approvals

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Approvals

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EAC

Ex Approvals

Approval details

EAC	EAC	RU C-DE.A*30.B.01742

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