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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Solid-state relay terminal block - DEK-OV- 5DC/240AC/800 - 2964623

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Power solid-state relay terminal block, input: 5 V DC, output: 10 - 253 V AC/800 mA, terminal block width: 6.2 mm

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



### Key Commercial Data

Packing unit	10 STK
GTIN	 4 017918 130909
GTIN	4017918130909

### 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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## Technical data

### Input data

Nominal input voltage $U_N$	5 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.2
Input voltage range	4 V DC ... 6 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 $U_N$	10.2 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
Surge current	30 A (t = 10 ms)
Max. load value	4.5 A <sup>2</sup> s
Peak offstate voltage	600 V (Periodic peak reverse voltage)
Voltage drop at max. limiting continuous current	$\leq 1$ 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 mm <sup>2</sup> ... 4 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 ... 12
Torque	0.5 Nm

### Connection data, output side

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

# Solid-state relay terminal block - DEK-OV- 5DC/240AC/800 - 2964623

## Technical data

### Connection data, output side

Screw thread	M3
Conductor cross section solid	0.2 mm <sup>2</sup> ... 4 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 ... 12
Torque	0.5 Nm

### General

Test voltage input/output	2.5 kV AC
	2.5 kV (50 Hz, 1 min.)
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

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

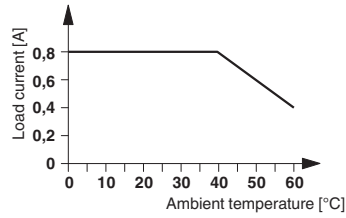
### Environmental Product Compliance

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

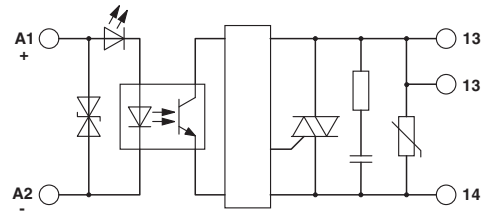
## Drawings

# Solid-state relay terminal block - DEK-OV- 5DC/240AC/800 - 2964623

Diagram



Circuit diagram



1 = zero voltage switch

## Approvals

Approvals

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Approvals

EAC

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Ex Approvals

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Approval details

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