

# 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

## Product Features

- 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

package_quantity	10
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

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 $U_N$	$\leq 0.4$

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## Technical data

### Input data

Switching threshold "1" signal in reference to $U_N$	$\geq 0.8$
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	Protection against polarity reversal
Type of 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 <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

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

### General

Test voltage input/output	2.5 kV AC
Mounting position	Any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Name	Standards/regulations
Standards/regulations	IEC 60664

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## Technical data

### General

Standards/regulations	EN 50178
Standards/regulations	IEC 62103
Rated surge voltage / insulation	Basic insulation
Pollution degree	2
Surge voltage category	III

## 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	27371001

### ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504
ETIM 5.0	EC001504

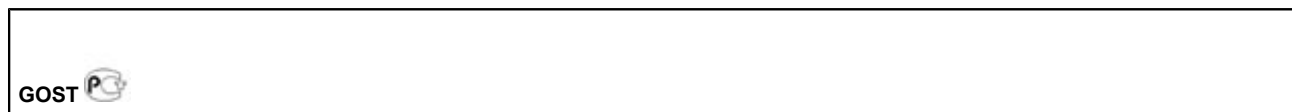
### UNSPSC

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

## approvals

GOST /

### Approval details



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

accessories

## Partition plate

D-DEK 1,5 GN - 2716949



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## Bridge

EB 2- DIK RD - 2716693



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EB 3- DIK RD - 2716745



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EB 4- DIK RD - 2716758



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EB 5- DIK RD - 2716761



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

### accessories

EB 10- DIK RD - 2716774



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EB 2- DIK BU - 2716648



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EB 3- DIK BU - 2716651



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EB 4- DIK BU - 2716664



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EB 5- DIK BU - 2716677



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

### accessories

EB 10- DIK BU - 2716680



EB 80- DIK BU - 2715940



EB 80- DIK RD - 2715953



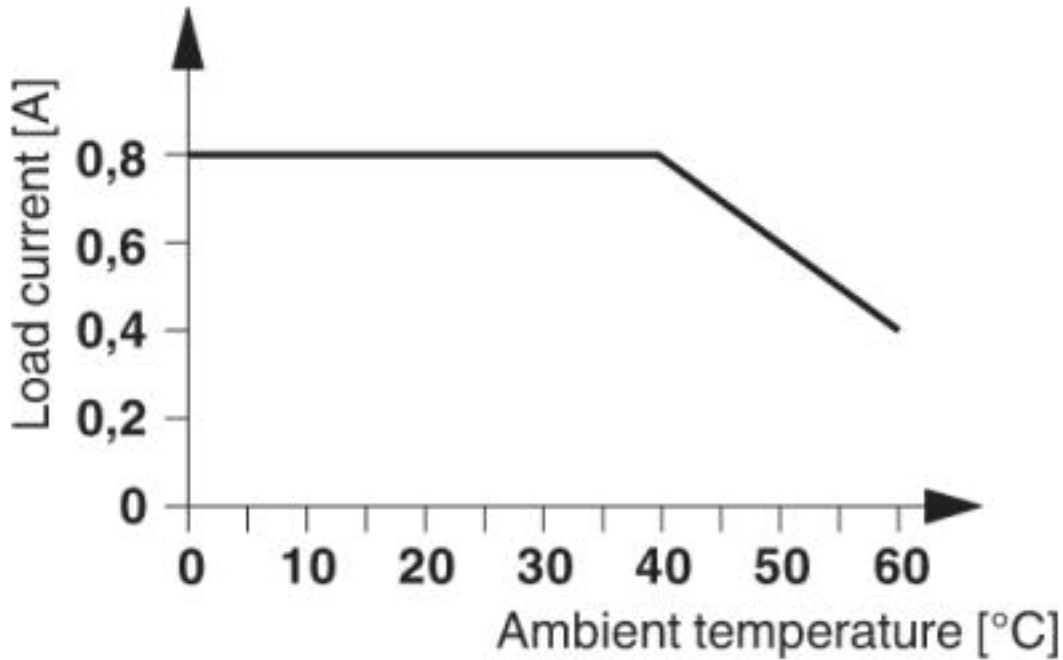
EB 80- DIK WH - 2715788



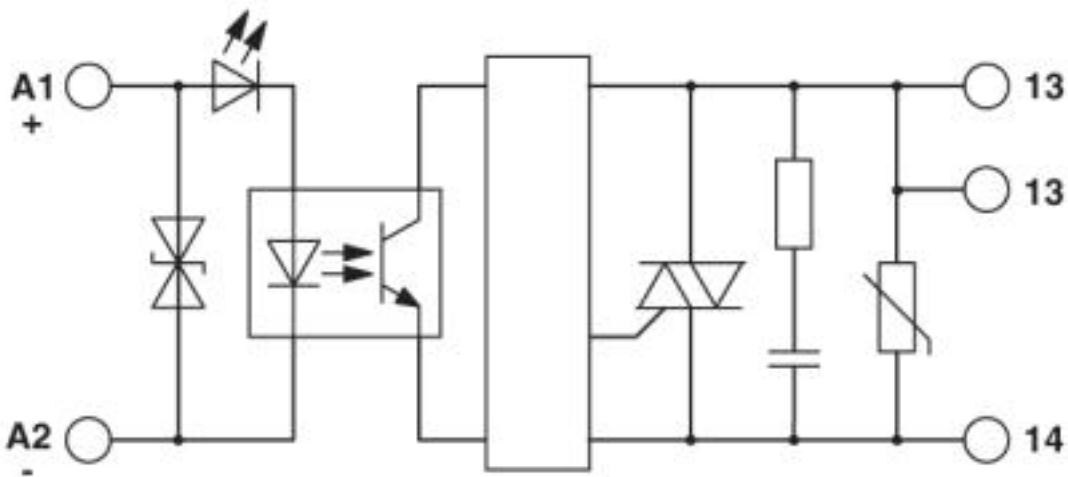
### Drawings

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Diagram



Circuit diagram



1 = zero voltage switch