

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



2964623

<https://www.phoenixcontact.com/us/products/2964623>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Power solid-state relay terminal block, input: 5 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
- Status indicator
- Integrated input circuit
- Electrical isolation between input and output at up to 2.5 kVrms

## Commercial data

Item number	2964623
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C460
Product key	DK61A1
GTIN	4017918130909
Weight per piece (including packing)	21.071 g
Weight per piece (excluding packing)	21.071 g
Customs tariff number	85364190
Country of origin	CN

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



2964623

<https://www.phoenixcontact.com/us/products/2964623>

## Technical data

### Notes

Order information:	The housing is open on one side. The appropriate cover is D-DEK 1,5 GN (2716949).
Note on application	Use of EB 80-DIK... bridges in the DEK terminal blocks: Absorption of humidity from the ambient air as well as an unfavorable tolerance between a larger number of DEK terminal blocks and the EB 80-DIK... bridge may cause (minor) expansion of the DEK housing. When the EB 80-DIK... bridges are used, therefore, it is recommended that these be disconnected after about 10 to 12 DEK terminal blocks and a wire bridge to the next DEK terminal block be inserted in their place.

### Product properties

Product type	Solid-state relay module
Product family	DEK
Application	Output function
Operating mode	100% operating factor

#### Insulation characteristics: Standards/regulations

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

#### Data management status

Date of last data management	01.04.2026
------------------------------	------------

### Electrical properties

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

### 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
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection
Transmission frequency	10 Hz

### Output data

Contact switching type	1 N/O contact
------------------------	---------------

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



2964623

<https://www.phoenixcontact.com/us/products/2964623>

Design of digital output	electronic
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)
Phase angle cos phi min	0.5
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	≤ 1 V
Output circuit	2-conductor floating, zero voltage switch
Protective circuit	RCV circuit; RCV circuit

## Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 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 ... 14
Tightening torque	0.4 Nm ... 0.5 Nm

## Dimensions

### Item dimensions

Width	6.2 mm
Height	80 mm
Depth	56 mm

## Material specifications

Color	green (RAL 6021)
-------	------------------

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

### Standards/regulations

Standards/regulations	IEC 60947-5-1
-----------------------	---------------

## Mounting

Mounting type	DIN rail mounting
---------------	-------------------

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



2964623

<https://www.phoenixcontact.com/us/products/2964623>

Assembly note	in rows with zero spacing
Mounting position	any

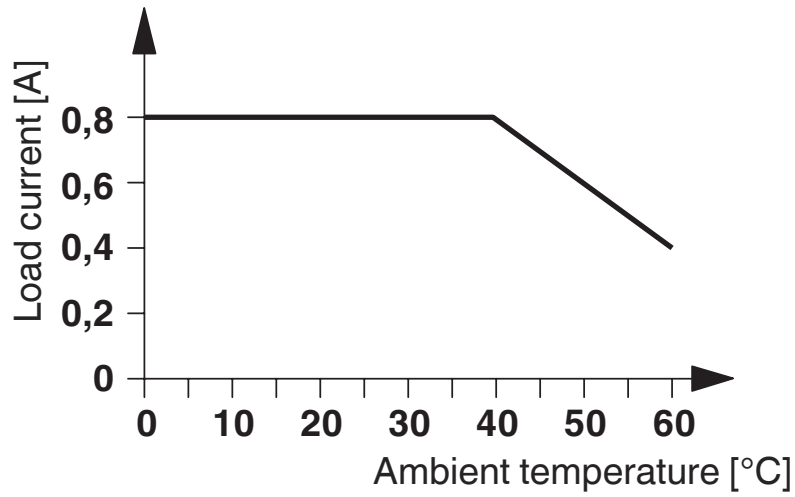
# DEK-OV- 5DC/240AC/800 - Solid-state relay terminal block

2964623

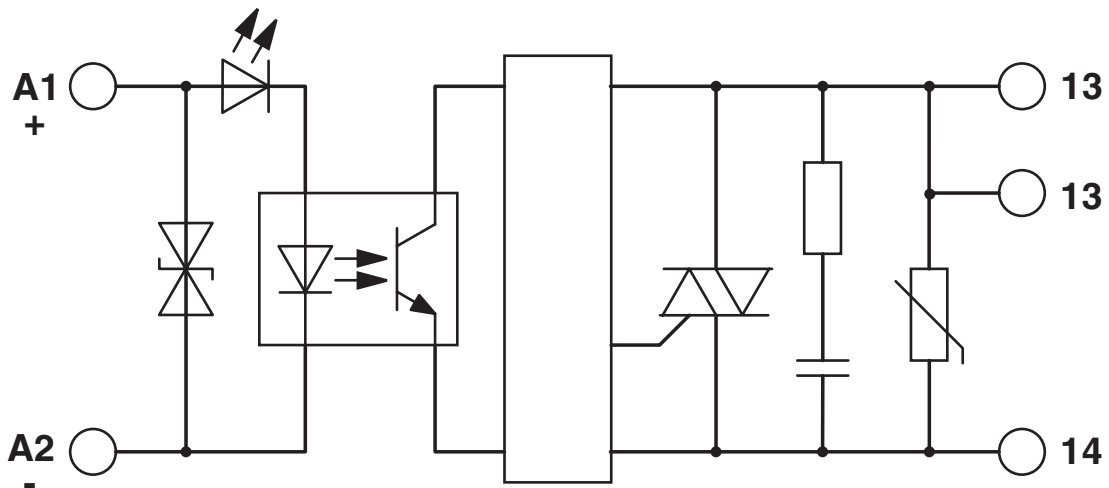
<https://www.phoenixcontact.com/us/products/2964623>

## Drawings

Diagram



Circuit diagram



1 = zero voltage switch

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



2964623

<https://www.phoenixcontact.com/us/products/2964623>

## Classifications

### ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

### ETIM

ETIM 10.0	EC001504
-----------	----------

### UNSPSC

UNSPSC 21.0	39122300
-------------	----------

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



2964623

<https://www.phoenixcontact.com/us/products/2964623>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	863305d9-1fdf-4ae6-9ef3-1fc182b01e9e

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)