

DEK-OV- 5DC/ 24DC/ 10 - Solid-state relay terminal block



2961752

<https://www.phoenixcontact.com/us/products/2961752>

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: DC voltage, output: DC voltage, input voltage: 5 V DC

Your advantages

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

Commercial data

Item number	2961752
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C460
Product key	CK61D2
Catalog page	Page 443 (C-5-2019)
GTIN	4017918927950
Weight per piece (including packing)	25.38 g
Weight per piece (excluding packing)	25 g
Customs tariff number	85364190
Country of origin	CN

DEK-OV- 5DC/ 24DC/ 10 - Solid-state relay terminal block



2961752

<https://www.phoenixcontact.com/us/products/2961752>

Technical data

Notes

General	The housing is open on one side. The appropriate cover is D-DEK 1,5 GN (2716949).
General	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

Insulation	Basic insulation
------------	------------------

Insulation characteristics: Standards/regulations

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

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	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	5.1 mA
Typical response time	250 μ s
Typical turn-off time	800 μ s
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection Surge protection
Transmission frequency	100 Hz

Output data

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

DEK-OV- 5DC/ 24DC/ 10 - Solid-state relay terminal block



2961752

<https://www.phoenixcontact.com/us/products/2961752>

Design of digital output	electronic
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
Protective circuit	Reverse polarity protection
	Surge protection

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	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
Tightening torque	0.5 Nm

Dimensions

Width	6.2 mm
Height	80 mm
Depth	56 mm

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
Assembly instructions	in rows with zero spacing
Mounting position	any

DEK-OV- 5DC/ 24DC/ 10 - Solid-state relay terminal block

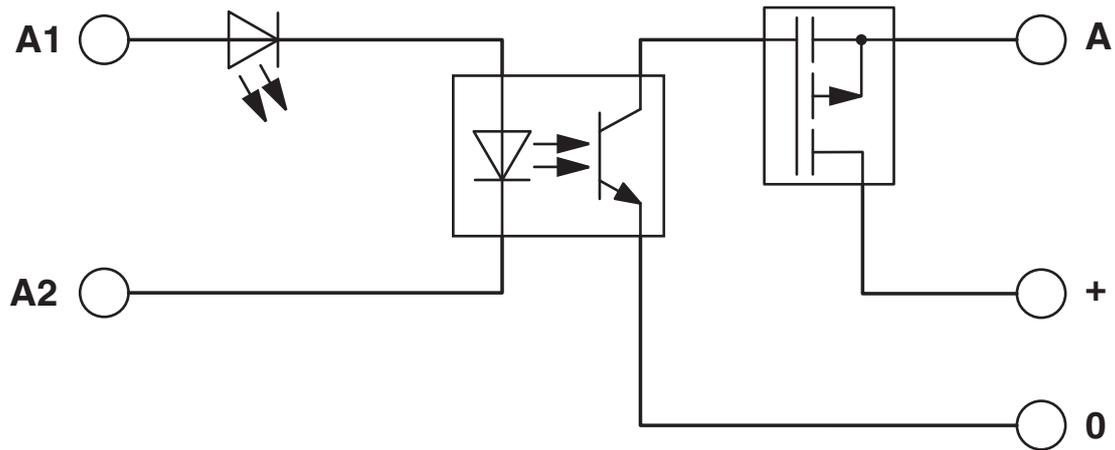


2961752

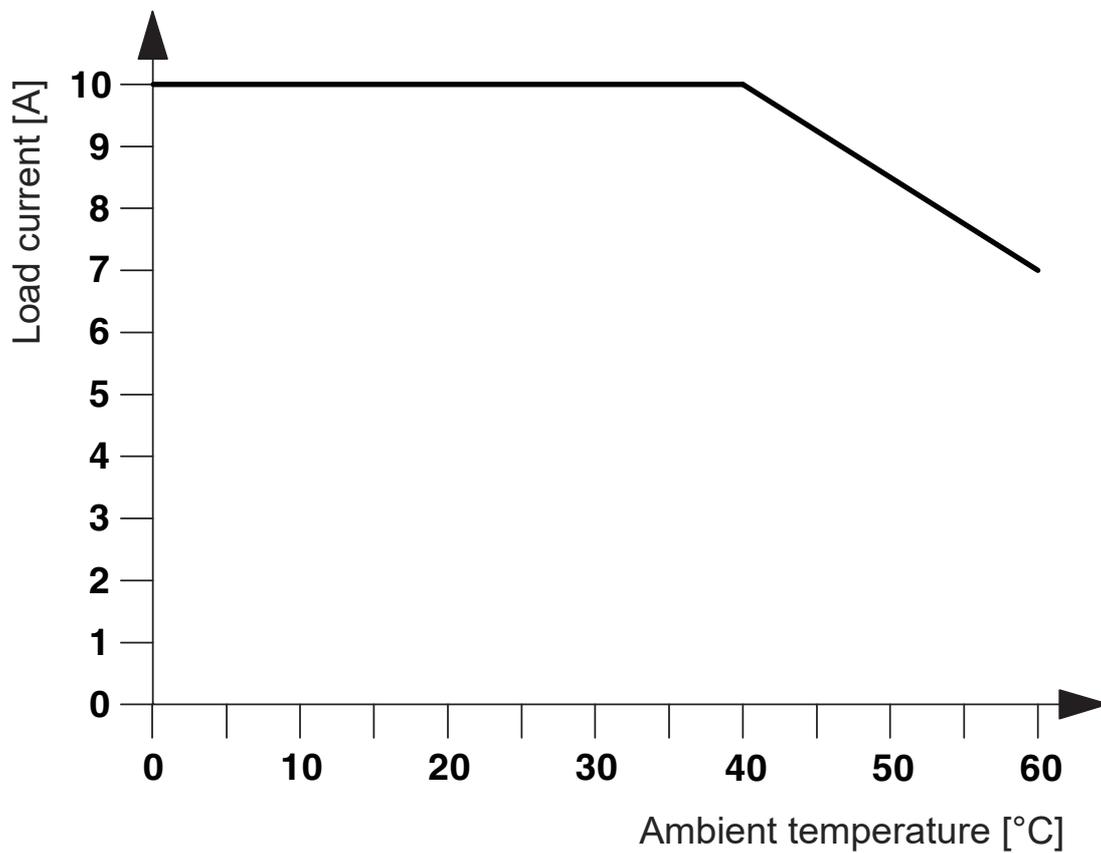
<https://www.phoenixcontact.com/us/products/2961752>

Drawings

Circuit diagram



Diagram



DEK-OV- 5DC/ 24DC/ 10 - Solid-state relay terminal block



2961752

<https://www.phoenixcontact.com/us/products/2961752>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2961752>



cUL Recognized

Approval ID: FILE E 238705



UL Recognized

Approval ID: FILE E 238705



EAC

Approval ID: TR_TS_D_00573_c

cULus Recognized

DEK-OV- 5DC/ 24DC/ 10 - Solid-state relay terminal block



2961752

<https://www.phoenixcontact.com/us/products/2961752>

Classifications

ECLASS

ECLASS-11.0	27371604
ECLASS-12.0	27371604
ECLASS-13.0	27371604

ETIM

ETIM 8.0	EC001504
----------	----------

UNSPSC

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

DEK-OV- 5DC/ 24DC/ 10 - Solid-state relay terminal block



2961752

<https://www.phoenixcontact.com/us/products/2961752>

Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

DEK-OV- 5DC/ 24DC/ 10 - Solid-state relay terminal block

2961752

<https://www.phoenixcontact.com/us/products/2961752>

Accessories

 Note: Applying some accessories below might limit this product.

EB 2- DIK RD - Insertion bridge

2716693

<https://www.phoenixcontact.com/us/products/2716693>



Insertion bridge, pitch: 6.15 mm, number of positions: 2, color: red

 Max. current carrying capacity: 26 A

EB 3- DIK RD - Insertion bridge

2716745

<https://www.phoenixcontact.com/us/products/2716745>



Insertion bridge, pitch: 6.15 mm, number of positions: 3, color: red

 Max. current carrying capacity: 26 A

DEK-OV- 5DC/ 24DC/ 10 - Solid-state relay terminal block



2961752

<https://www.phoenixcontact.com/us/products/2961752>

EB 4- DIK RD - Insertion bridge

2716758

<https://www.phoenixcontact.com/us/products/2716758>



Insertion bridge, pitch: 6.15 mm, number of positions: 4, color: red

 Max. current carrying capacity: 26 A

EB 5- DIK RD - Insertion bridge

2716761

<https://www.phoenixcontact.com/us/products/2716761>



Insertion bridge, pitch: 6.15 mm, number of positions: 5, color: red

 Max. current carrying capacity: 26 A

DEK-OV- 5DC/ 24DC/ 10 - Solid-state relay terminal block

2961752

<https://www.phoenixcontact.com/us/products/2961752>

EB 10- DIK RD - Insertion bridge

2716774

<https://www.phoenixcontact.com/us/products/2716774>



Insertion bridge, pitch: 6.15 mm, number of positions: 10, color: red

 Max. current carrying capacity: 26 A

EB 80- DIK RD - Insertion bridge

2715953

<https://www.phoenixcontact.com/us/products/2715953>



Insertion bridge, pitch: 6.2 mm, number of positions: 80, color: red

 Max. current carrying capacity: 26 A

DEK-OV- 5DC/ 24DC/ 10 - Solid-state relay terminal block

2961752

<https://www.phoenixcontact.com/us/products/2961752>

EB 5- DIK BU - Insertion bridge

2716677

<https://www.phoenixcontact.com/us/products/2716677>



Insertion bridge, pitch: 6.15 mm, number of positions: 5, color: blue

 Max. current carrying capacity: 26 A

EB 10- DIK BU - Insertion bridge

2716680

<https://www.phoenixcontact.com/us/products/2716680>



Insertion bridge, pitch: 6.15 mm, number of positions: 10, color: blue

 Max. current carrying capacity: 26 A

DEK-OV- 5DC/ 24DC/ 10 - Solid-state relay terminal block

2961752

<https://www.phoenixcontact.com/us/products/2961752>

EB 80- DIK BU - Insertion bridge

2715940

<https://www.phoenixcontact.com/us/products/2715940>



Insertion bridge, pitch: 6.2 mm, number of positions: 80, color: blue

 Max. current carrying capacity: 26 A

D-DEK 1,5 GN - Separating plate

2716949

<https://www.phoenixcontact.com/us/products/2716949>

Cover for setting the end of a terminal row, color: green



DEK-OV- 5DC/ 24DC/ 10 - Solid-state relay terminal block

2961752

<https://www.phoenixcontact.com/us/products/2961752>

ZB 6:UNBEDRUCKT - Zack marker strip

1051003

<https://www.phoenixcontact.com/us/products/1051003>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

ZB 6,LGS:FORTL.ZAHLEN - Zack marker strip

1051016

<https://www.phoenixcontact.com/us/products/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: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

DEK-OV- 5DC/ 24DC/ 10 - Solid-state relay terminal block



2961752

<https://www.phoenixcontact.com/us/products/2961752>

ZB 6/WH-100:UNBEDRUCKT - Zack marker strip

5060935

<https://www.phoenixcontact.com/us/products/5060935>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 1000

DIKD 1,5 - Sensor/actuator terminal block

2715979

<https://www.phoenixcontact.com/us/products/2715979>



Sensor/actuator terminal block, nom. voltage: 250 V, nominal current: 24 A, connection method: Screw connection, 1st, 2nd and 3rd level, Rated cross section: 2.5 mm², cross section: 0.2 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

Phoenix Contact 2023 © - 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