

2964322

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Power solid-state relay terminal block with short-circuit-proof DC voltage output, input: 24 V DC, output: 3 - 33 V DC/10 A

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

Commercial data

Item number	2964322
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	DK61A1
GTIN	4017918893194
Weight per piece (including packing)	25.5 g
Weight per piece (excluding packing)	25.5 g
Customs tariff number	85364190
Country of origin	CN



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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: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
Overvoltage category	II
Pollution degree	2

Data management status

Rated surge voltage

Date of last data management 15.09.2025	
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Electrical properties

Maximum power dissipation for nominal condition	0.5 W	
Test voltage (Input/output)	2.5 kV AC (Input/output)	
Air clearances and creepage distances between the power circuits		
Rated insulation voltage	50 V DC	

0.5 kV

Input data

Nominal input voltage U _N	24 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	0.8 1.2
Input voltage range	19.2 V DC 28.8 V DC
Switching threshold "0" signal in reference to $\mathbf{U}_{\mathbf{N}}$	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U _N	3.5 mA
Typical response time	100 µs
Typical turn-off time	500 μs
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection



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Standards/regulations

Mounting type

Assembly note

Mounting

	Surge protection
ansmission frequency	100 Hz
ıt data	
Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	8 V DC 33 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
nnection data	
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm² 2.5 mm²
Conductor cross-section flexible	0.2 mm² 2.5 mm²
Conductor cross-section AWG	24 14
Tightening torque	0.4 Nm 0.5 Nm
nensions	
Width	6.2 mm
Height	80 mm
Depth	56 mm
terial specifications	
Color	green (RAL 6021)
	5 · · (. a . = 552 ·)
vironmental and real-life conditions	
mbient conditions	
Ambient temperature (operation)	-20 °C 60 °C
Ambient temperature (storage/transport)	-20 °C 70 °C
Altitude	≤ 2000 m
andards and regulations	
ir clearances and creepage distances between the power circu	iite
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DIN EN 60947-5-1

DIN rail mounting

in rows with zero spacing



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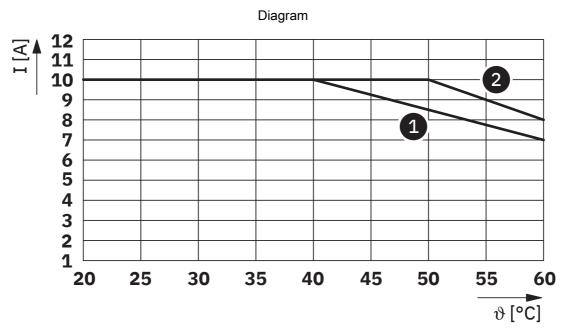
Mounting position	any



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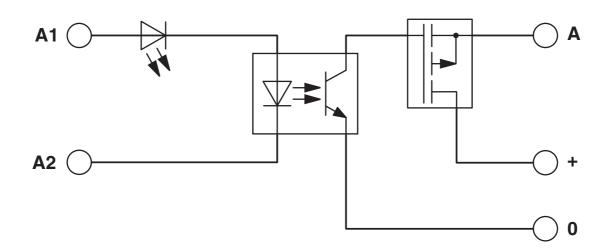
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Drawings



Derating curve for the continuous load current Curve 1: Arranged in a row without spacing Curve 2: Arranged in a row with spacing > 6 mm

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/2964322



cUL RecognizedApproval ID: E238705



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Classifications

ECLASS

	ECLASS-13.0	27371604	
	ECLASS-15.0	27371604	
ETIM			
CTIVI			
	ETIM 9.0	EC001504	
UNSPSC			
	UNSPSC 21.0	39122300	



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
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.)	Lead(CAS: 7439-92-1)
SCIP	7a6c560f-fd73-479f-9d04-b53970e8a4c3



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Accessories



Note: Applying some accessories below might limit this product.

EB 2- DIK RD - Insertion bridge

2716693

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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

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



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EB 4- DIK RD - Insertion bridge

2716758

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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

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



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EB 10- DIK RD - Insertion bridge

2716774

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

1 Max. current carrying capacity: 26 A

EB 80- DIK RD - Insertion bridge

2715953

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



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EB 5- DIK BU - Insertion bridge

2716677

https://www.phoenixcontact.com/pc/products/2716677



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

1 Max. current carrying capacity: 26 A

EB 10- DIK BU - Insertion bridge

2716680

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



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EB 80- DIK BU - Insertion bridge

2715940

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

1 Max. current carrying capacity: 26 A

D-DEK 1,5 GN - Separating plate

2716949

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





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ZB 6:UNBEDRUCKT - Zack marker strip

1051003

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Zack marker strip, Strip, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

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

1051016

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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: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm



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

5060935

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Zack marker strip, Strip, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 1000, text field height: 10.5 mm, text field width: 6. 15 mm

DIKD 1,5 - Initiator/actuator terminal block

2715979

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Initiator/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

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