

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
Sales key	DK61A1
Product key	DK61A1
Catalog page	Page 443 (C-5-2019)
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



2964322

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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 19.03.2025	
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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 $\mathbf{U}_{\mathbf{N}}$	≥ 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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Mounting type

Assembly note

	Surge protection
Transmission frequency	100 Hz
Output 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
Connection 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	0.5 Nm
	0.011111
Dimensions	
Width	6.2 mm
Height	80 mm
Depth	56 mm
Material specifications	
Color	green (RAL 6021)
Environmental and real-life conditions	
invironmental and real-life conditions	
Ambient conditions	
Ambient temperature (operation)	-20 °C 60 °C
Ambient temperature (storage/transport)	-20 °C 70 °C
Altitude	≤ 2000 m
Standards and regulations	
Air clearances and creepage distances between the power circuits	
Standards/regulations	DIN EN 60947-5-1
Mounting	
Mounting type	DIN rail mounting

DIN rail mounting

in rows with zero spacing



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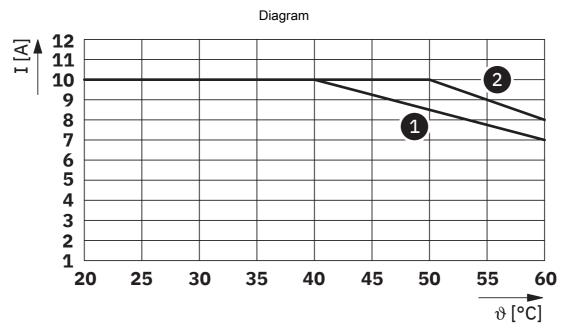
Mounting position	any



2964322

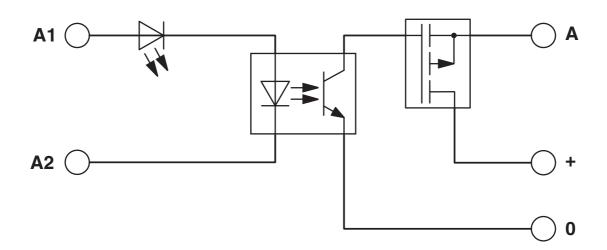
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Drawings



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/au/products/2964322



cUL RecognizedApproval ID: E238705



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Classifications

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	ECLASS-13.0	27371604
F	ГІМ	
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	ETIM 9.0	EC001504
UI	NSPSC	
	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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