

2964296

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Power solid-state relay terminal block for actuator, input: 24 V DC, output: 3 - 30 V DC/3 A, terminal block width: 6.2 mm

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

#### Commercial data

Item number	2964296
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C460
Product key	DK61A1
Catalog page	Page 443 (C-5-2019)
GTIN	4017918104191
Weight per piece (including packing)	22.27 g
Weight per piece (excluding packing)	21.33 g
Customs tariff number	85364190
Country of origin	CN



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#### Technical data

#### Notes

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.
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#### 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	19.03.2025

#### Electrical properties

Maximum power dissipation for nominal condition	0.17 W
Test voltage (Input/output)	2.5 kV AC (Input/output)

#### Input data

Nominal input voltage U <sub>N</sub>	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 $\mathbf{U}_{\mathrm{N}}$	≤ 0.4
Switching threshold "1" signal in reference to $\mathbf{U}_{\mathrm{N}}$	≥ 0.8
Typical input current at U <sub>N</sub>	7 mA
Typical response time	40 µs
Typical turn-off time	200 µs
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection
Transmission frequency	300 Hz

#### Output data

Contact switching type	1 N/O contact
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Design of digital output	electronic
Output voltage range	3 V DC 30 V DC
Limiting continuous current	3 A (see derating curve)
Voltage drop at max. limiting continuous current	≤ 0.2 V
Output circuit	2-conductor, floating
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 <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	0.5 Nm

#### **Dimensions**

Width	6.2 mm
Height	80 mm
Depth	56 mm

#### Material specifications

#### 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	C 60947-5-1
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#### Mounting

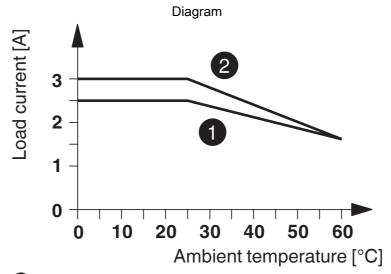
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any



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### Drawings



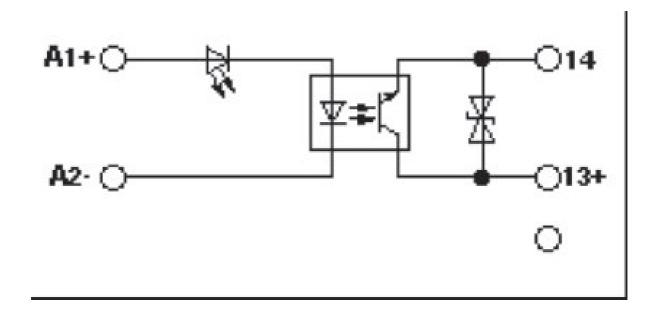
- Horizontal mounting
- 2 Vertical mounting



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#### Circuit diagram





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#### Classifications

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	ECLASS-13.0	27371604
E	ГІМ	
	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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	8dfa4aad-40af-4b9d-8f7f-0dc8702eae91

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