

https://www.phoenixcontact.com/us/products/2941170



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Relay terminal block, with soldered-in miniature relays, contact (AgNi+Au): small to medium loads, 1 N/O contact, input voltage 5 V AC/DC, for assembly on NS 35/7.5, terminal width 6.2 mm, design rotated

### Your advantages

- · Reduced costs as N terminal block is no longer required
- Up to 73 % more space
- · Wiring reduced to a minimum
- · Integrated input circuit
- 2-layer contact with hard gold plating for universal applications from 1 mA to 5 A continuous current
- 2 kV<sub>rms</sub> electrical isolation between input and output

#### Commercial data

Item number	2941170
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C460
Product key	CK61A2
Catalog page	Page 441 (C-5-2019)
GTIN	4017918080327
Weight per piece (including packing)	23.012 g
Weight per piece (excluding packing)	23.012 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	Relay Module
Product family	DEK
Application	Input function
Operating mode	100% operating factor
Mechanical service life	approx. 2x 10 <sup>7</sup> cycles

#### Data management status

Date of last data management	22.05.2024
Article revision	19

#### Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

### Electrical properties

Maximum power dissipation for nominal condition	0.12 W
Test voltage (Winding/contact)	2 kV AC (50 Hz, 1 min., winding/contact)

## Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	5 V AC/DC
Input voltage range	4.5 V AC/DC 5.5 V AC/DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U <sub>N</sub>	23 mA
Typical response time	8 ms
Typical release time	15 ms
Protective circuit	Bridge rectifier; Bridge rectifier
Operating voltage display	Yellow LED

### Output data

#### Switching



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Contact switching type	1 N/O contact
Type of switch contact	Double contact
Contact material	AgNi, hard gold-plated
Maximum switching voltage	250 V AC
	125 V DC
Minimum switching voltage	0.1 V
Limiting continuous current	3 A (5 A up to 35°C at 24 V DC)
Maximum inrush current	5 A
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	72 W (at 24 V DC)
	60 W (at 48 V DC)
	50 W (at 60 V DC)
	50 W (at 110 V DC)
	750 VA (for 250 V AC)
	120 W (at 24 V DC - up to 35°)

#### 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

#### **Dimensions**

Width	6.2 mm
Height	80 mm
Depth	56 mm

## Material specifications

Color green (RAL 6021)
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#### Environmental and real-life conditions

#### Ambient conditions

Ambient temperature (operation)	-20 °C 50 °C
Ambient temperature (storage/transport)	-20 °C 70 °C

## Standards and regulations

Standards/regulations	IEC 60947-5-1

### Mounting

Mounting type	DIN rail mounting
Thread type	0



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Assembly note	in rows with zero spacing
Mounting position	any

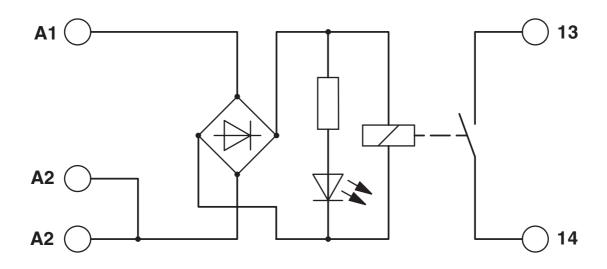
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# Drawings

### Circuit diagram





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## **Approvals**

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EAC

Approval ID: TR\_TS\_D\_00573\_c



**EAC** 

Approval ID: RU\*C-DE.\*08.B.00010



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# Classifications

UNSPSC 21.0

#### **ECLASS**

ECLASS-11.0	27371601	
ECLASS-12.0	27371601	
ECLASS-13.0	27371601	
ETIM		
ETIM 9.0	EC001437	
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UNSPSC		

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# 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.)	Lead(CAS: 7439-92-1)
SCIP	5b839385-52ee-4a00-be30-3a0a914ea8b1

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