

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_{rms} electrical isolation between input and output

Commercial data

Item number	2941170
Packing unit	10 pc
Minimum order quantity	10 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.

Product properties

Product type	Relay Module
Product family	DEK
Application	Input function
Operating mode	100% operating factor
Mechanical service life	approx. 2x 10 ⁷ cycles

Insulation characteristics

Insulation	Basic insulation

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 _N	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 _N	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

Contact switching type 1 N	N/O contact
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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

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
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Mounting

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

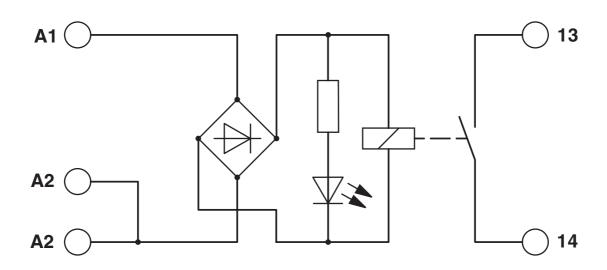


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Drawings

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2941170



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
UNSPSC	

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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)



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Accessories



Note: Applying some accessories below might limit this product.

EB 80- DIK RD - Insertion bridge

2715953

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

1 Max. current carrying capacity: 26 A

EB 80- DIK BU - Insertion bridge

2715940

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



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EB 10- DIK BU - Insertion bridge

2716680

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

Max. current carrying capacity: 26 A

EB 5- DIK BU - Insertion bridge

2716677

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



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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 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 4- DIK RD - Insertion bridge

2716758

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

1 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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D-DEK 1,5 GN - Separating plate

2716949

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



ZB 6:UNBEDRUCKT - Zack marker strip

1051003

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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



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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 \dots 10, 11 \dots 20, etc. up to 491 \dots 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

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

5060935

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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



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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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