

DEK-REL-G24/21 - Relay Module

2964500

<https://www.phoenixcontact.com/gb/products/2964500>



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Relay terminal, with soldered-in miniature power relay, contacts (AgSnO): medium to high loads, 1 changeover contact, input voltage 24 V DC, for mounting on NS 35/7,5, terminal width 6.2 mm

Your advantages

- Less wiring effort, thanks to the use of EB-DIK insertion bridges
- Just 6.2 mm wide
- Cadmium-free relay contacts
- Low warehousing requirements, as the wiring can be done via the changeover contact, N/O contact or N/C contact
- High switching power of 250 V AC / 6 A
- Safe isolation according to DIN EN 50178 (VDE 0160)
- Relay housing with IP67 protection
- LED for indicating the switching state
- 4 kV electrical isolation between input and output

Commercial data

Item number	2964500
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CK6152
Product key	CK6152
Catalog page	Page 439 (C-5-2019)
GTIN	4017918117733
Weight per piece (including packing)	24.73 g
Weight per piece (excluding packing)	24.73 g
Customs tariff number	85364190
Country of origin	CN

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Technical data

Notes

General	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	Universal
Operating mode	100% operating factor
Mechanical service life	approx. 10^7 cycles

Insulation characteristics

Insulation	Safe isolation: Control side / contact side
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Insulation characteristics

Insulation	Safe isolation: Control side / contact side
Overvoltage category	III
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	0.22 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)
Rated insulation voltage	250 V
Rated surge voltage	6 kV

Input data

Coil side

Nominal input voltage U_N	24 V DC
Input voltage range	19.2 V AC/DC ... 26.4 V AC/DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U_N	9 mA
Typical response time	8 ms
Typical release time	5 ms
Protective circuit	Reverse polarity protection; Polarity protection diode Freewheeling diode; Freewheeling diode
Operating voltage display	Yellow LED

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Output data

Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	10 A (4 s)
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.1 A (at 220 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 230 V, AC15)

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
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
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Ambient temperature (storage/transport)	-20 °C ... 70 °C
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Standards and regulations

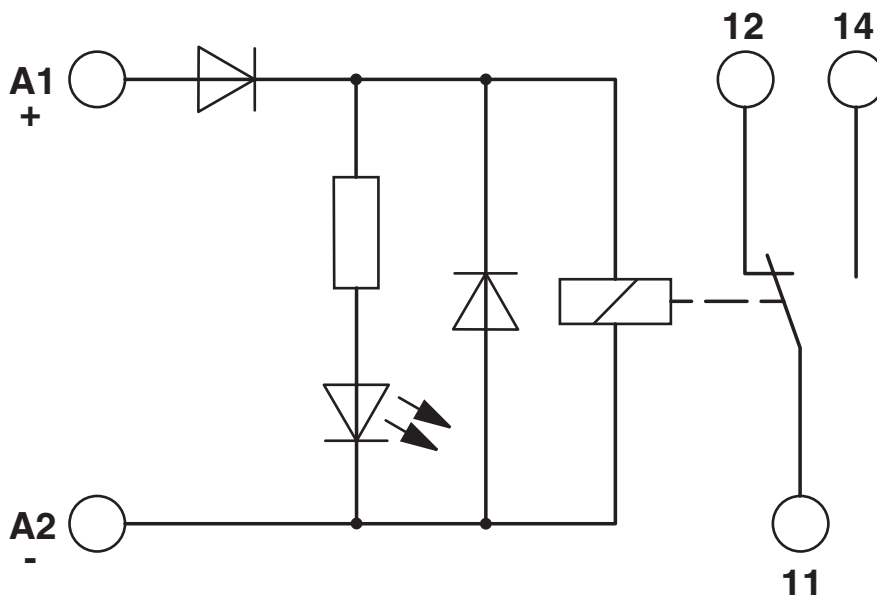
Standards/regulations	IEC 60947-5-1
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Mounting

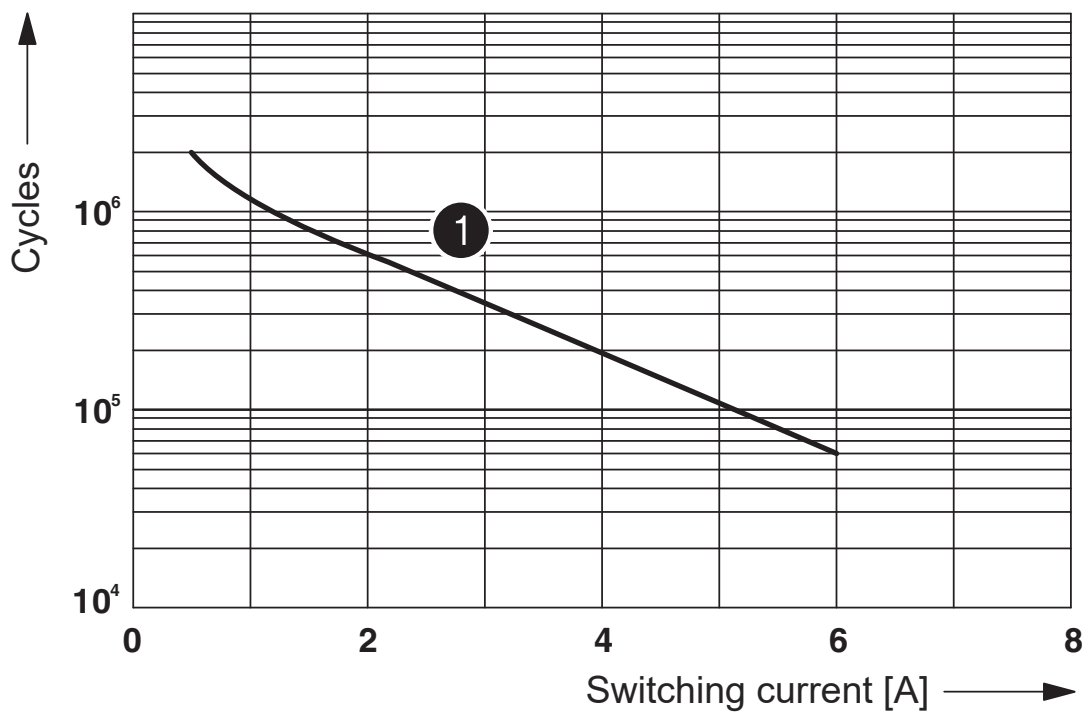
Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any

Drawings

Circuit diagram



Diagram



① 250 V AC, ohmic load

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Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/2964500>




cUL Recognized
Approval ID: FILE E 238705



UL Recognized
Approval ID: FILE E 238705



EAC
Approval ID: TR_TS_D_00573_c



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

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Classifications

ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601

ETIM

ETIM 9.0	EC001437
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UNSPSC

UNSPSC 21.0	39122300
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

i Note: Applying some accessories below might limit this product.

EB 2- DIK RD - Insertion bridge

2716693

<https://www.phoenixcontact.com/gb/products/2716693>



Insertion bridge, pitch: 6.15 mm, number of positions: 2, color: red

i 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

i Max. current carrying capacity: 26 A

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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

<https://www.phoenixcontact.com/gb/products/2716761>



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

 Max. current carrying capacity: 26 A

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EB 10- DIK RD - Insertion bridge

2716774

<https://www.phoenixcontact.com/gb/products/2716774>



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

 Max. current carrying capacity: 26 A

EB 5- DIK BU - Insertion bridge

2716677

<https://www.phoenixcontact.com/gb/products/2716677>



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

 Max. current carrying capacity: 26 A

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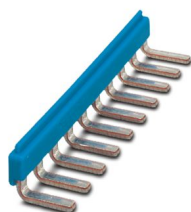
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EB 10- DIK BU - Insertion bridge

2716680

<https://www.phoenixcontact.com/gb/products/2716680>



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

 Max. current carrying capacity: 26 A


EB 80- DIK BU - Insertion bridge

2715940

<https://www.phoenixcontact.com/gb/products/2715940>



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

 Max. current carrying capacity: 26 A

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EB 80- DIK RD - Insertion bridge

2715953

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



 Max. current carrying capacity: 26 A

D-DEK 1,5 GN - Separating plate

2716949

<https://www.phoenixcontact.com/gb/products/2716949>

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



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ZB 6:UNBEDRUCKT - Zack marker strip

1051003

<https://www.phoenixcontact.com/gb/products/1051003>



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

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

1051016

<https://www.phoenixcontact.com/gb/products/1051016>



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: 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/WH-100:UNBEDRUCKT - Zack marker strip

5060935

<https://www.phoenixcontact.com/gb/products/5060935>

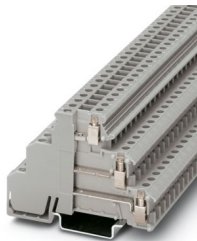


Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 1000

DIKD 1,5 - Initiator/actuator terminal block

2715979

<https://www.phoenixcontact.com/gb/products/2715979>



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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