

ST-REL3-SG-B 60/21/P - Relay connectors



2824064

<https://www.phoenixcontact.com/us/products/2824064>

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Relay plug, fitted with remanence miniature switching relay, contacts (AgSnO): small to large loads, 1 changeover contact, input voltage 60 V DC, with polarity protection and freewheeling diode, positive switching

The figure shows version ST-REL3-SG-B 24/21/M

Commercial data

Item number	2824064
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK6122
GTIN	4017918139346
Weight per piece (including packing)	34.245 g
Weight per piece (excluding packing)	34.245 g
Customs tariff number	85364190
Country of origin	DE

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Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

Product type	Relay Module
Operating mode	100% operating factor
Mechanical service life	approx. 10^7 cycles

Insulation characteristics

Overvoltage category	II
Pollution degree	2

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
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Data management status

Date of last data management	12.09.2025
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Electrical properties

Maximum power dissipation for nominal condition	0.54 W
Test voltage (Winding/contact)	2 kV _{rms} (50 Hz, 1 min., winding/contact)
Rated insulation voltage	250 V AC
Rated surge voltage	2.5 kV

Input data

Coil side

Nominal input voltage U_N	60 V DC
Input voltage range	48 V DC ... 66 V DC
Input voltage range in reference to U_N	0.8 ... 1.1
Drive and function	bistable
Typical input current at U_N	typ. 9 mA
Typical response time	5 ms
Typical release time	5 ms
Pulse time range	30 ms ... 5 s
Coil voltage	24 V DC
Protective circuit	Freewheeling diode; Freewheeling diode Reverse polarity protection; Polarity protection diode

Output data

Switching

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Contact switching type	Single contact, 1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (At 5 V) 24 V (at 24 V)
Limiting continuous current	6 A
Maximum inrush current	8 A
Min. switching current	1 mA (at 24 V) 100 mA (At 5 V)
Interrupting rating (ohmic load) max.	144 W (at 24 V DC) 43 W (at 48 V DC) 42 W (at 60 V DC) 55 W (at 110 V DC) 100 W (at 220 V DC) 1500 VA (for 250 V AC)

Switching: when the gold layer is destroyed

Maximum switching voltage	250 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	8 A
Interrupting rating (ohmic load) max.	120 W (at 24 V DC) 40 W (at 48 V DC) 35 W (at 60 V DC) 30 W (at 110 V DC) 55 W (at 220 V DC) 1500 VA (for 250 V AC)

Dimensions

Width	20.8 mm
Height	33 mm
Depth	66.5 mm

Material specifications

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

Ambient conditions

Ambient temperature (operation)	-40 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C

Standards and regulations

Standards/regulations	IEC 60664 IEC 60664A
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	DIN VDE 0110
	DIN VDE 0109-11, draft
	DIN EN 50178/VDE 0160 (in relevant parts)

Air clearances and creepage distances between the power circuits

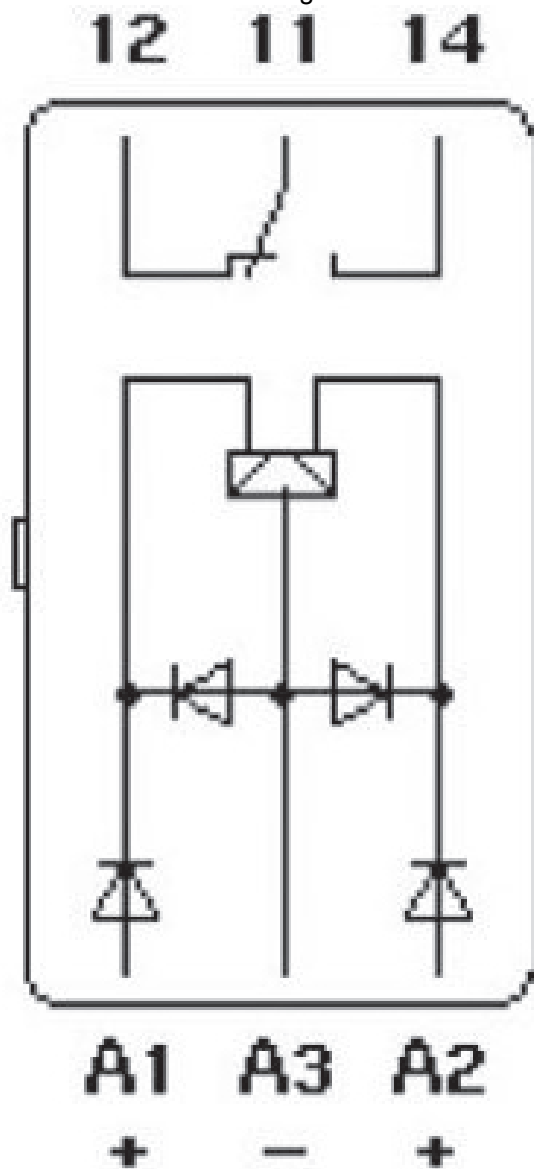
Standards/regulations	DIN EN 50178
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Mounting

Mounting type	Plug-in mounting
Assembly note	in rows with zero spacing
Mounting position	any

Drawings

Circuit diagram



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Environmental product compliance

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.)	No substance above 0.1 wt%
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