

ST-REL3-HG110/21 - Relay connectors

2821038

<https://www.phoenixcontact.com/us/products/2821038>

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Relay connector, equipped with Hengstler miniature round relay, contacts (AgCdO+Au): small to large loads, 1 changeover contact, input voltage 110 V DC, with LED display, pluggable into basic terminal blocks

The figure shows version ST-REL3-HG 24/21

Commercial data

Item number	2821038
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK6123
GTIN	4017918076955
Weight per piece (including packing)	62.67 g
Weight per piece (excluding packing)	61 g
Customs tariff number	85364900
Country of origin	DE

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Technical data

Product properties

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

Data management status

Date of last data management	01.04.2026
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Electrical properties

Maximum power dissipation for nominal condition	0.61 W
Test voltage (Winding/contact)	2 kV AC (50 Hz, 1 min., winding/contact)

Input data

Coil side

Nominal input voltage U_N	110 V DC
Input voltage range	88 V DC ... 121 V DC
Input voltage range in reference to U_N	0.8 ... 1.1
Typical input current at U_N	5.5 mA
Typical response time	15 ms
Typical release time	25 ms
Protective circuit	Damping diode, polarity protection; Damping diode, polarity protection diode
Operating voltage display	yes

Output data

Switching

Contact switching type	Single contact, 1 changeover contact
Type of switch contact	Single contact
Contact material	AgCdO, hard gold-plated
Maximum switching voltage	250 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	6 A
Interrupting rating (ohmic load) max.	120 W (at 24 V DC) 180 W (at 48 V DC) 105 W (at 60 V DC) 60 W (at 110 V DC) 90 W (at 220 V DC) 1500 VA (for 250 V AC)

Connection data

Connection method	Plug-in connection
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Dimensions

Width	20.8 mm
Height	33 mm
Depth	66.5 mm

Material specifications

Color	transparent
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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	DIN VDE 0110b, Gr. C for 250 V DC
	DIN VDE 0160 (in relevant parts)

Mounting

Mounting type	Plug-in mounting
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Drawings

Circuit diagram



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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