

# ST-REL3-HG 48/21 - Relay connectors



2821096

<https://www.phoenixcontact.com/us/products/2821096>

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Relay connector, equipped with Hengstler miniature round relay, contacts (AgCdO+Au): small to large loads, 1 changeover contact, input voltage 48 V DC, with LED display, pluggable into basic terminal blocks

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

## Commercial data

Item number	2821096
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK6123
GTIN	4017918077013
Weight per piece (including packing)	61.52 g
Weight per piece (excluding packing)	61.25 g
Customs tariff number	85364190
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	0.77 W
Test voltage (Winding/contact)	2 kV AC (50 Hz, 1 min., winding/contact)

### Input data

#### Coil side

Nominal input voltage $U_N$	48 V DC
Input voltage range	38.4 V DC ... 52.8 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.1
Typical input current at $U_N$	16 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	Silver cadmium oxide (AgCdO), 10 $\mu$ m 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) 1250 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 REACH SVHC

REACH candidate substance (CAS No.)	
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	No substance above 0.1 wt%
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