

# ST-REL4-HW 42/21-21 - Relay connectors



2825597

<https://www.phoenixcontact.com/us/products/2825597>

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Relay connector, equipped with Hengstler miniature round relay, contacts (AgCdO+Au): small to large loads, 2 changeover contacts, input voltage 42 V AC, with LED display, pluggable into basic terminal blocks

The figure shows version ST-REL 4-HG 24/21-21

## Commercial data

Item number	2825597
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK6126
GTIN	4017918077822
Weight per piece (including packing)	70.98 g
Weight per piece (excluding packing)	70.98 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

Test voltage (Winding/contact)	2 kV AC (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2.5 kV AC (50 Hz, 1 min., changeover contact/changeover contact)

### Input data

#### Coil side

Nominal input voltage $U_N$	42 V AC
Input voltage range	33.6 V AC ... 46.2 V AC
Input voltage range in reference to $U_N$	0.8 ... 1.1
Typical input current at $U_N$	50 mA
Typical response time	4 ms ... 15 ms (with AC)
Typical release time range	4 ms ... 15 ms (with AC)
Protective circuit	Damping diode, polarity protection; Damping diode, polarity protection diode
Operating voltage display	yes

### Output data

#### Switching

Contact switching type	Single contact, 2 changeover contacts
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)

### Dimensions

Width	27 mm
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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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