

ST-REL3-HG 48/21 - Relay connectors



2821096

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

ST-REL3-HG 48/21 - Relay connectors



2821096

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

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	12.09.2025
------------------------------	------------

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 μ 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
-------------------	--------------------

ST-REL3-HG 48/21 - Relay connectors



2821096

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

Dimensions

Width	20.8 mm
Height	33 mm
Depth	66.5 mm

Material specifications

Color	transparent
-------	-------------

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
---------------	------------------

ST-REL3-HG 48/21 - Relay connectors

2821096

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

Drawings

Circuit diagram



ST-REL3-HG 48/21 - Relay connectors



2821096

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

Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
-------------------------------------	--

	No substance above 0.1 wt%
--	----------------------------

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com