

# ST-REL4-SG110/21-21 - Relay connectors



2825429

<https://www.phoenixcontact.com/us/products/2825429>

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Relay connector, equipped Siemens KAMMRELAIS®, contacts (Ag): medium loads, 2 changeover contacts, input voltage 110 V DC, with LED display, pluggable into basic terminal blocks

The figure shows version ST-REL 4-SG 48/21-21

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2825429                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C460                           |
| Product key                          | DK6125                         |
| GTIN                                 | 4017918077761                  |
| Weight per piece (including packing) | 57.2 g                         |
| Weight per piece (excluding packing) | 57.09 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 (approx. $10^6$ with AC relay) |

### Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 01.04.2026 |
|------------------------------|------------|

### Electrical properties

|  |  |
|--|--|
| Maximum power dissipation for nominal condition      | 0.61 W   |
| Test voltage (Winding/contact)                       | 1 kV AC (50 Hz, 1 min., winding/contact)                       |
| Test voltage (Changeover contact/changeover contact) | 1 kV AC (50 Hz, 1 min., changeover contact/changeover 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                     | 8 ms (with DC)   |
| Typical release time                      | 15 ms (with DC)  |
| 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                      | Ag, gold-flashed                      |
| Maximum switching voltage             | 250 V AC/DC                           |
| Limiting continuous current           | 5 A                                   |
| Maximum inrush current                | 5 A                                   |
| Interrupting rating (ohmic load) max. | 120 W (at 24 V DC)                    |
|                                       | 60 W (at 48 V DC)                     |
|                                       | 50 W (at 60 V DC)                     |
|                                       | 50 W (at 110 V DC)                    |
|                                       | 70 W (at 220 V DC)                    |
|                                       | 500 VA (for 250 V AC)                 |

### Dimensions

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|        |         |
|--------|---------|
| Width  | 27 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 |
|---------------|------------------|



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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### 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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