# ST-REL4-KG230/21-21 - Relay connectors

2822419

https://www.phoenixcontact.com/us/products/2822419

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

Relay connector, equipped with miniature switching relay, contacts (AgNi): medium to large loads, 2 changeover contacts, input voltage 230 V AC/DC, with LED display, pluggable into basic terminal blocks

## Commercial data

| | |
|---|---|
| Item number | 2822419 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | C460 |
| Product key | DK61B2 |
| GTIN | 4017918077273 |
| Weight per piece (including packing) | 46.86 g |
| Weight per piece (excluding packing) | 46.86 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Relay Module |
| Operating mode | 100% operating factor |
| Mechanical service life | approx. 2x $10^7$ cycles |

Data management status

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

## Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 0.92 W |
| Test voltage (Winding/contact) | 2.5 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 $U_N$ | 230 V AC/DC |
| Input voltage range | 207 V AC/DC ... 253 V AC/DC (20 °C) |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at $U_N$ | 4 mA |
| Typical response time | 6 ms (with DC) |
| Typical release time | 7 ms (with DC) |
| Protective circuit | Bridge rectifier, varistor |
| Operating voltage display | yes |

## Output data

Switching

| | |
|---|---|
| Contact switching type | 2 changeover contacts |
| Type of switch contact | Single contact |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Limiting continuous current | 3 A |
| Maximum inrush current | 5 A |
| Interrupting rating (ohmic load) max. | 70 W (at 24 V DC) |
| | 85 W (at 48 V DC) |
| | 60 W (at 60 V DC) |
| | 40 W (at 110 V DC) |
| | 60 W (at 220 V DC) |
| | 750 VA (for 250 V AC) |

## Dimensions

Item dimensions

| | |
|---|---|
| Width | 27 mm |
| Height | 33 mm |
| Depth | 66.5 mm |

## Material specifications

| | |
|---|---|
| Color | green (RAL 6021) |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -20 °C ... 50 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

## Standards and regulations

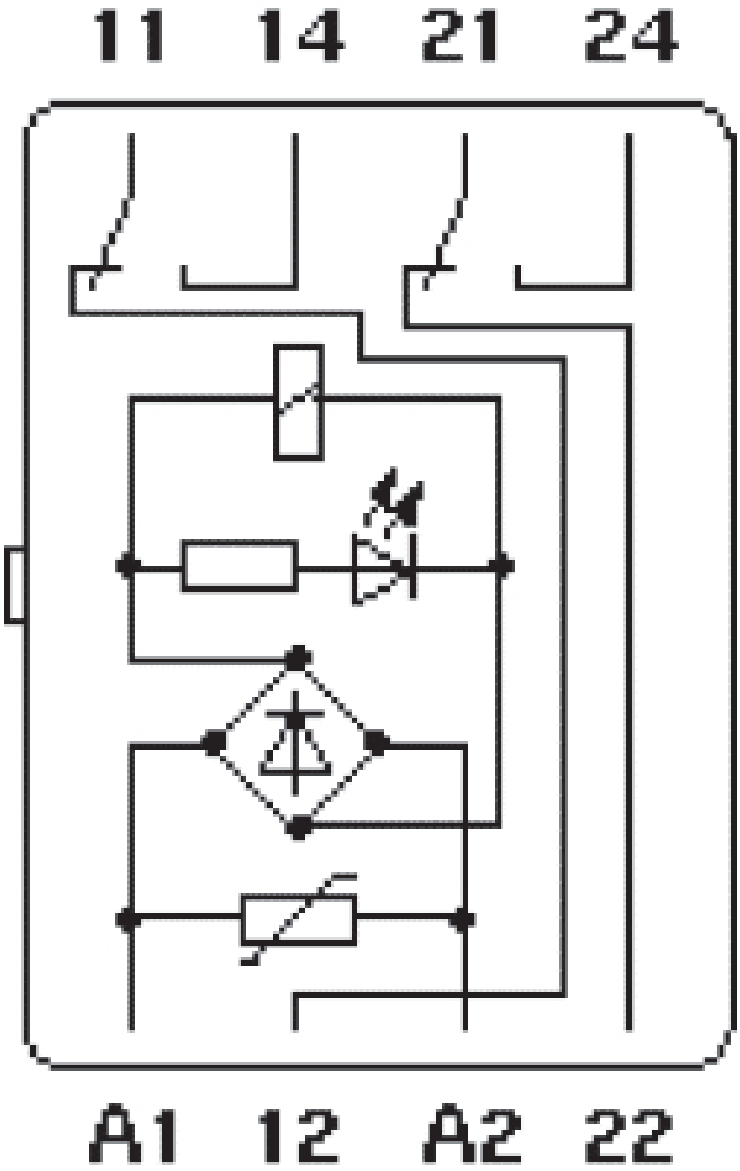
| | |
|---|---|
| Standards/regulations | DIN VDE 0110b, Gr. C for 250 V DC |
| | IEC 60255/DIN VDE 0435 (in relevant parts) |
| | DIN EN 50178/VDE 0160 (in relevant parts) |
| | EN 60730/DIN VDE 0631 |
| | DIN VDE 0160 (in relevant parts) |

## Mounting

| | |
|---|---|
| Mounting type | Plug-in mounting |

## Drawings

Circuit diagram



## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27371601 |
| ECLASS-15.0 | 27371601 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001437 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39122300 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

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.) | Hexahydromethylphthalic anhydride(CAS: n/a) |
| | Lead(CAS: 7439-92-1) |
| SCIP | 1fd31008-9636-41d6-954e-8239feeb2e4f |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 1.017 kg CO2e |

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