

# ST-REL4-KG230/ 1- 1 - Relay connectors

2822422

<https://www.phoenixcontact.com/us/products/2822422>

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Relay connector, fitted with miniature switching relay, contacts (AgNi): Medium to large loads, 2 N/O contacts, 230 V AC/DC input voltage, with light indicator, can be plugged into basic terminal blocks

The figure shows version ST-REL 4-HW 24/1-1

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2822422                        |
| Packing unit                         | 10 pc                          |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | DK61B2                         |
| GTIN                                 | 4017918077280                  |
| Weight per piece (including packing) | 44.93 g                        |
| Weight per piece (excluding packing) | 41.8 g                         |
| 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. $2 \times 10^7$ 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 (N/O contact / N/O contact)        | 2 kV AC (50 Hz, 1 min., N/O contact / N/O 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 N/O contacts         |
| Type of switch contact                | Single contact         |
| Contact material                      | AgNi                   |
| Maximum switching voltage             | 250 V AC/DC            |
| Limiting continuous current           | 5 A                    |
| Maximum inrush current                | 6 A                    |
| Interrupting rating (ohmic load) max. | 120 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)     |
|                                       | 1250 VA (for 250 V AC) |

### Dimensions

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## 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 |
|---------------|------------------|

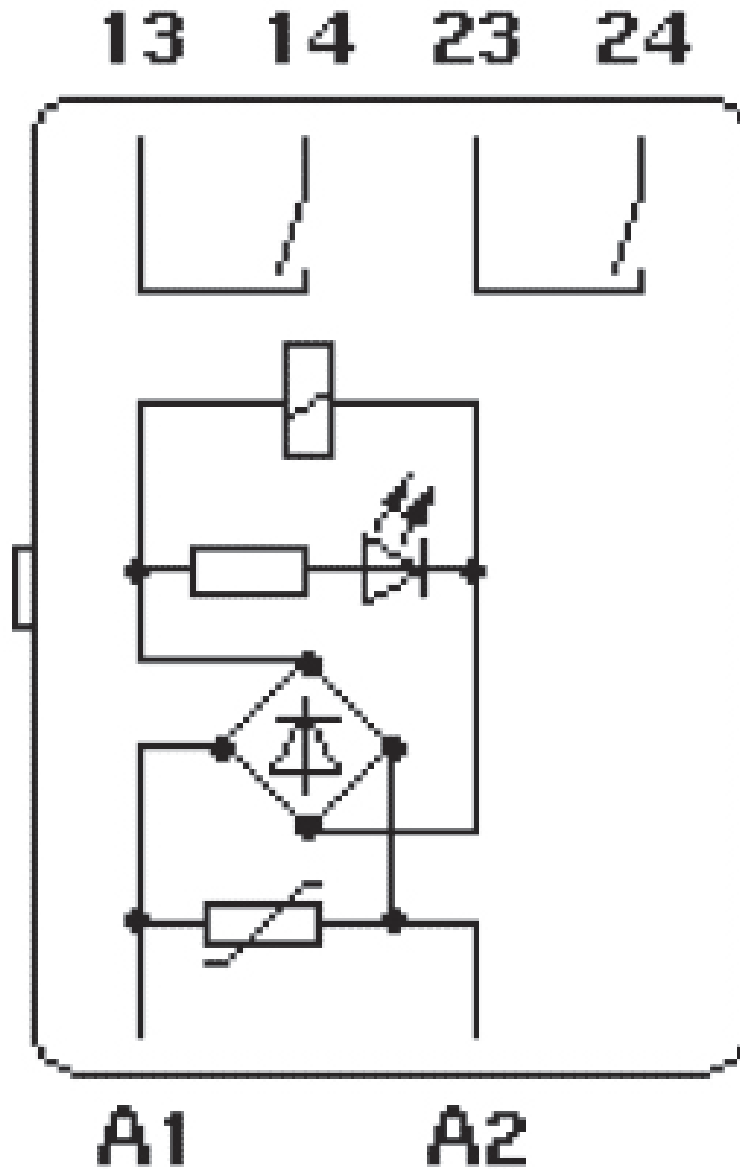
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## Drawings

Circuit diagram



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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## 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                                | 63d71b50-9a4a-4cd6-8aac-2ce2162e0725        |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 1.438 kg CO2e |
|---------|---------------|

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