

2832027

<https://www.phoenixcontact.com/us/products/2832027>

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Plug-in relay interface for protection against interference on the control side, with soldered-in miniature switching relay, contacts (AgNi): medium to large loads, 1 changeover contact, input voltage 230 V AC

Your advantages

- Use of AC output cards, resulting in residual AC currents
- Resistant to interference currents
- Applications with long control lines
- High relay release voltage

Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2832027                        |
| Packing unit                         | 10 pc                          |
| Minimum order quantity               | 10 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C460                           |
| Product key                          | DK61B2                         |
| GTIN                                 | 4017918078577                  |
| Weight per piece (including packing) | 41.64 g                        |
| Weight per piece (excluding packing) | 41.4 g                         |
| Customs tariff number                | 85364900                       |
| Country of origin                    | DE                             |

# ST-REL3-KG230/21/SO46 - Relay connectors



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## Technical data

### Product properties

|                         |                                |
|-------------------------|--------------------------------|
| Product type            | Relay Module                   |
| Mechanical service life | approx. $2 \times 10^7$ cycles |

### Insulation characteristics

|                      |                  |
|----------------------|------------------|
| Insulation           | Basic insulation |
| Overvoltage category | III              |
| Pollution degree     | 2                |

### Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 03.07.2025 |
|------------------------------|------------|

### Electrical properties

|                                                 |                                            |
|-------------------------------------------------|--------------------------------------------|
| Maximum power dissipation for nominal condition | 4.14 W                                     |
| Test voltage (Winding/contact)                  | 2.5 kV AC (50 Hz, 1 min., winding/contact) |

### Input data

#### Coil side

|                                |                                    |
|--------------------------------|------------------------------------|
| Nominal input voltage $U_N$    | 230 V AC                           |
| Input voltage range            | 207 V AC ... 253 V AC (20 °C)      |
| Drive and function             | monostable                         |
| Drive (polarity)               | polarized                          |
| Typical input current at $U_N$ | 18 mA AC                           |
| Typical response time          | 10 ms                              |
| Typical release time           | 8 ms                               |
| Protective circuit             | Bridge rectifier; Bridge rectifier |
|                                | Surge protection; Varistor         |
|                                | RC element; RC element             |
| Operating voltage display      | Yellow LED                         |

### Output data

#### Switching

|                                       |                      |
|---------------------------------------|----------------------|
| Contact switching type                | 1 changeover contact |
| Type of switch contact                | Single contact       |
| Contact material                      | AgNi                 |
| Maximum switching voltage             | 250 V AC/DC          |
| Limiting continuous current           | 6 A                  |
| Maximum inrush current                | 8 A                  |
| Interrupting rating (ohmic load) max. | 95 W (at 24 V DC)    |
|                                       | 50 W (at 48 V DC)    |
|                                       | 45 W (at 60 V DC)    |

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|  |                        |
|--|------------------------|
|  | 35 W (at 110 V DC)     |
|  | 55 W (at 220 V DC)     |
|  | 2000 VA (for 250 V AC) |

## Dimensions

|        |         |
|--------|---------|
| Width  | 20.8 mm |
| Height | 42.5 mm |
| Depth  | 112 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 | IEC 60664 |
|                       | EN 50178  |

## Mounting

|                   |                  |
|-------------------|------------------|
| Mounting type     | Plug-in mounting |
| Mounting position | any              |

# ST-REL3-KG230/21/SO46 - Relay connectors

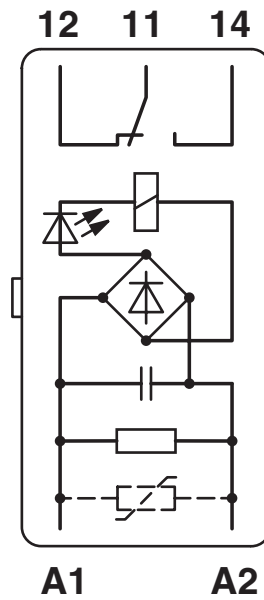
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## Drawings

Circuit diagram



# ST-REL3-KG230/21/SO46 - Relay connectors



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2832027>



**EAC**

Approval ID: RU\*C-DE.\*08.B.00010

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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                                | 67ca5023-eb1a-4875-923c-2e84b2cfd65b        |

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