

# ST-REL3-SG-B 24/21/M - Relay connectors



2898155

<https://www.phoenixcontact.com/us/products/2898155>

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Relay plug, fitted with remanence miniature switching relay, contacts (AgSnO): small to large loads, 1 changeover contact, input voltage 24 V DC, polarity protection and freewheeling diode, negative switching

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2898155       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C460          |
| Product key                          | DK61B2        |
| GTIN                                 | 4017918078782 |
| Weight per piece (including packing) | 34.13 g       |
| Weight per piece (excluding packing) | 34.13 g       |
| Customs tariff number                | 85364190      |
| Country of origin                    | DE            |

## Technical data

### Product properties

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

### Insulation characteristics: Air clearances and creepage distances between the power circuits

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

### Data management status

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

### Electrical properties

|   |  |
|---|--|
| Maximum power dissipation for nominal condition | 0.19 W   |
| Test voltage (Winding/contact)                  | 2 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact) |

### Air clearances and creepage distances between the power circuits

|                          |          |
|--------------------------|----------|
| Rated insulation voltage | 250 V AC |
| Rated surge voltage      | 2.5 kV   |

### Input data

#### Coil side

|                                |  |
|--------------------------------|--|
| Nominal input voltage $U_N$    | 24 V DC  |
| Input voltage range            | 19.2 V DC ... 26.4 V DC (20 °C)  |
| Drive and function             | bistable   |
| Drive (polarity)               | polarized  |
| Typical input current at $U_N$ | typ. 8 mA  |
| Typical response time          | 5 ms   |
| Typical release time           | 5 ms   |
| Pulse time range               | 30 ms ... 5 s  |
| Coil voltage                   | 24 V DC  |
| Protective circuit             | Freewheeling diode; Freewheeling diode<br>Reverse polarity protection; Polarity protection diode |

### Output data

#### Switching

|                           |                      |
|---------------------------|----------------------|
| Contact switching type    | 1 changeover contact |
| Type of switch contact    | Single contact       |
| Contact material          | AgSnO                |
| Maximum switching voltage | 250 V AC/DC          |
| Minimum switching voltage | 5 V (At 5 V)         |

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|                                       |   |
|---------------------------------------|---|
|                                       | 24 V (at 24 V)  |
| Limiting continuous current           | 6 A   |
| Maximum inrush current                | 8 A   |
| Min. switching current                | 1 mA (at 24 V)<br>100 mA (At 5 V)   |
| Interrupting rating (ohmic load) max. | 144 W (at 24 V DC)<br>43 W (at 48 V DC)<br>42 W (at 60 V DC)<br>55 W (at 110 V DC)<br>100 W (at 220 V DC)<br>1500 VA (for 250 V AC) |

Switching: when the gold layer is destroyed

|                                       |  |
|---------------------------------------|--|
| Maximum switching voltage             | 250 V AC/DC  |
| Limiting continuous current           | 6 A  |
| Maximum inrush current                | 8 A  |
| Interrupting rating (ohmic load) max. | 120 W (at 24 V DC)<br>40 W (at 48 V DC)<br>35 W (at 60 V DC)<br>30 W (at 110 V DC)<br>55 W (at 220 V DC)<br>1500 VA (for 250 V AC) |

## Dimensions

Item dimensions

|        |         |
|--------|---------|
| Width  | 20.8 mm |
| Height | 33 mm   |
| Depth  | 66.5 mm |

## Material specifications

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

## Environmental and real-life conditions

Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -40 °C ... 50 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |

## Standards and regulations

Air clearances and creepage distances between the power circuits

|                       |              |
|-----------------------|--------------|
| Standards/regulations | DIN EN 50178 |
|-----------------------|--------------|

## Mounting

|               |                           |
|---------------|---------------------------|
| Mounting type | Plug-in mounting          |
| Assembly note | in rows with zero spacing |

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|                   |     |
|-------------------|-----|
| Mounting position | any |
|-------------------|-----|

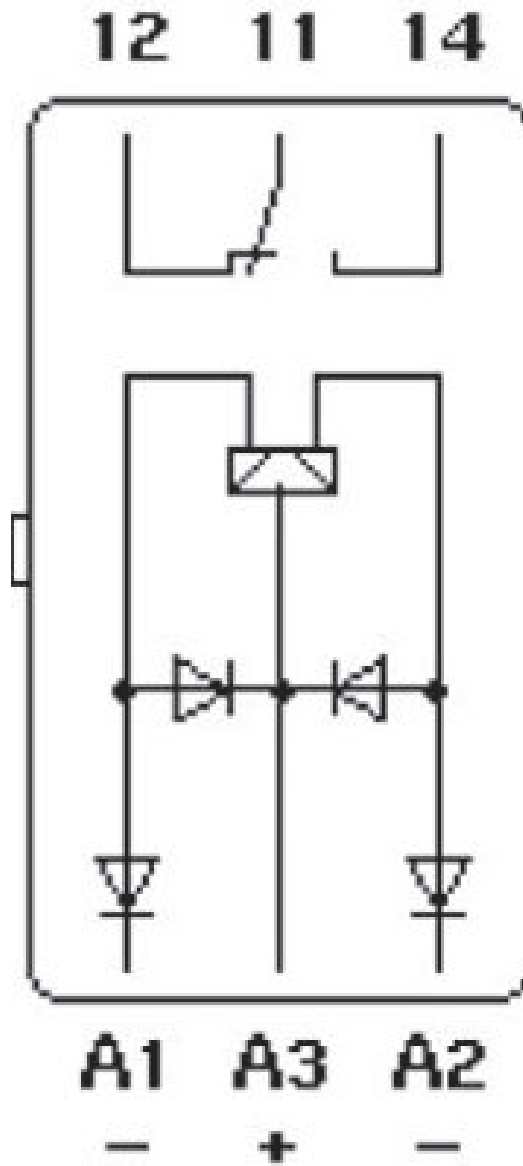
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## Drawings

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.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | bd5338a0-bc17-4d60-8298-51343fb7235c |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 1.825 kg CO2e |
|---------|---------------|

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