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# ST-REL3-KG 24/21AU - Relay connectors

2824190

https://www.phoenixcontact.com/in/products/2824190

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Relay connector, equipped with miniature switching relay, contacts (AgPd60): small loads, 1 changeover contact, input voltage 24 V AC/DC, with LED display, pluggable into basic terminal blocks

## Commercial data

| | |
|---|---|
| Item number | 2824190 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | CK6 |
| Product key | DK61B2 |
| Catalog page | Page 88 (IF-2005) |
| GTIN | 4017918077624 |
| Weight per piece (including packing) | 40.5 g |
| Weight per piece (excluding packing) | 38.9 g |
| Customs tariff number | 85364190 |
| 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. 2x $10^7$ cycles |

Data management status

| | |
|---|---|
| Date of last data management | 02.05.2024 |

### Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 0.5 W |
| Test voltage (Winding/contact) | 2.5 kV AC (50 Hz, 1 min., winding/contact) |

### Input data

Coil side

| | |
|---|---|
| Nominal input voltage $U_N$ | 24 V AC/DC |
| Input voltage range | 19.2 V AC/DC ... 26.4 V AC/DC (20 °C) |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at $U_N$ | 21 mA |
| Typical response time | 7 ms |
| Typical release time | 11 ms (with DC) |
| Protective circuit | Bridge rectifier, varistor |
| Operating voltage display | yes |

### Output data

Switching

| | |
|---|---|
| Contact switching type | 1 changeover contact |
| Type of switch contact | Double contact |
| Contact material | AgPd60, hard gold-plated |
| Maximum switching voltage | 30 V AC |
| | 36 V DC |
| Limiting continuous current | 0.5 A |
| Maximum inrush current | 0.2 A |
| Interrupting rating (ohmic load) max. | 5 W (at 24 V DC) |

Switching: when the gold layer is destroyed

| | |
|---|---|
| Note | the following values are applicable if a gold layer is destroyed |
| Maximum switching voltage | 125 V AC |
| | 150 V DC |
| Limiting continuous current | 2 A |

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| | |
|---|---|
| Maximum inrush current | 2 A |
| Interrupting rating (ohmic load) max. | 29 W (at 24 V DC) |
| | 29 W (at 48 V DC) |
| | 29 W (at 60 V DC) |

## 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) | -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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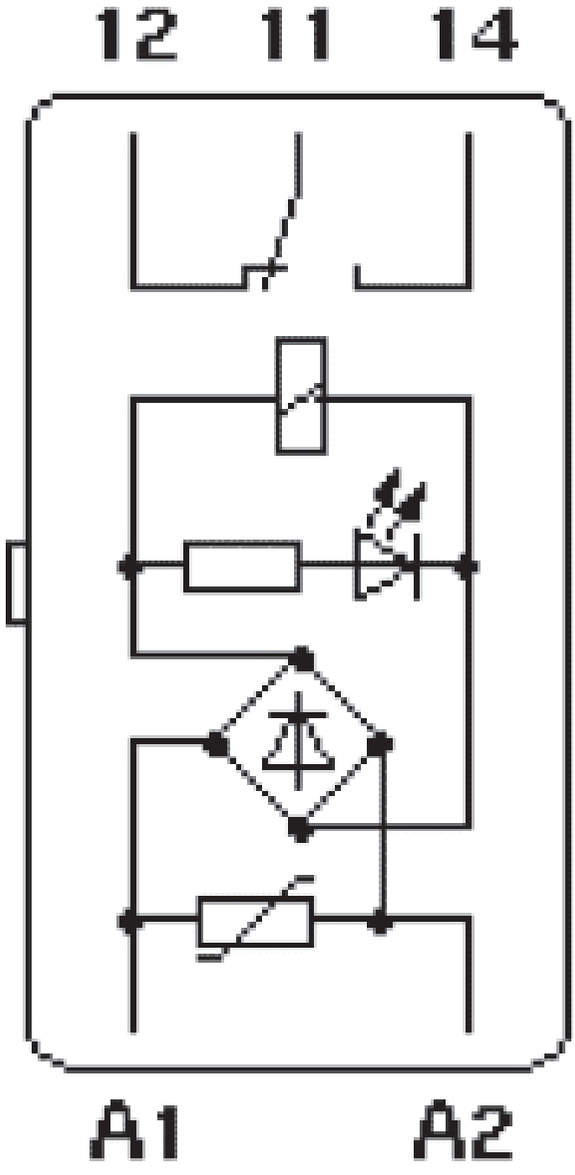
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## Drawings

Circuit diagram



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## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 27371601 |
| ECLASS-12.0 | 27371601 |
| ECLASS-13.0 | 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.) | Lead(CAS: 7439-92-1) |
| SCIP | 67ddb980-3e0c-44e8-867c-c0b014765b3d |

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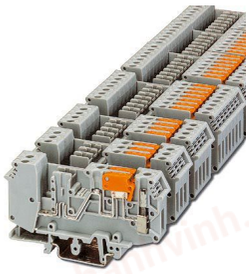
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## Accessories

### URELG 3-PMTK - Basic terminal block

2820709

https://www.phoenixcontact.com/in/products/2820709

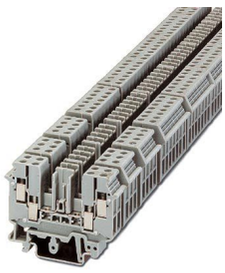


Basic terminal blocks with test pick-off on both sides and knife disconnection for NS 32 and NS 35/7,5 DIN rail, with end cover, for ST-REL..., ST-OV..., and ST-OE... plugs, 3-pos.

### UDK-RELG 3 - Basic terminal block

2777043

https://www.phoenixcontact.com/in/products/2777043



Basic terminal blocks with test pick-off on both sides and double connections with the same potential for NS 32 and NS 35/7,5 DIN rail, with end cover, for ST-REL..., ST-OV..., and ST-OE... plugs, 3-pos.

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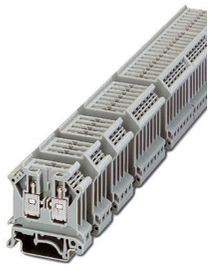
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## URELG 3 - Basic terminal block

2820136

https://www.phoenixcontact.com/in/products/2820136



Basic termination blocks with screw connection for NS 32 and NS 35/7.5 DIN rail, with end cover, for ST-REL..., ST-OV... and ST-OE... plugs, 3-pos.

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