

ST-REL2-KG 48/2AU - Relay connectors



2823780

<https://www.phoenixcontact.com/us/products/2823780>

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Relay connector, equipped with miniature switching relay, contacts (AgPd60): small loads, 1 N/C contact, input voltage 48 V AC/DC, with light indicator, can be plugged on basic termination blocks

The figure shows version ST-REL 2-KG 24/2 AU

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2823780 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | NULL |
| Product key | DK6121 |
| GTIN | 4017918077594 |
| Weight per piece (including packing) | 35 g |
| Weight per piece (excluding packing) | 35 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. 2×10^7 cycles |

Data management status

| | |
|------------------------------|------------|
| Date of last data management | 12.09.2025 |
|------------------------------|------------|

Electrical properties

| | |
|---|--|
| Maximum power dissipation for nominal condition | 0.41 W |
| Test voltage (Winding/contact) | 2.5 kV AC (50 Hz, 1 min., winding/contact) |

Input data

Coil side

| | |
|---|-------------------------------|
| Nominal input voltage U_N | 48 V AC/DC |
| Input voltage range | 43.2 V AC/DC ... 52.8 V AC/DC |
| Input voltage range in reference to U_N | 0.9 ... 1.1 |
| Typical input current at U_N | 8.5 mA |
| Typical response time | 10 ms (with DC) |
| Typical release time | 10 ms (with DC) |
| Protective circuit | Bridge rectifier, varistor |
| Operating voltage display | yes |

Output data

Switching

| | |
|---------------------------------------|-------------------------------|
| Contact switching type | Double contact, 1 N/C 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 |
| Maximum inrush current | 2 A |

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| | |
|---------------------------------------|-------------------|
| 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 | 14.6 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 |
|---------------|------------------|

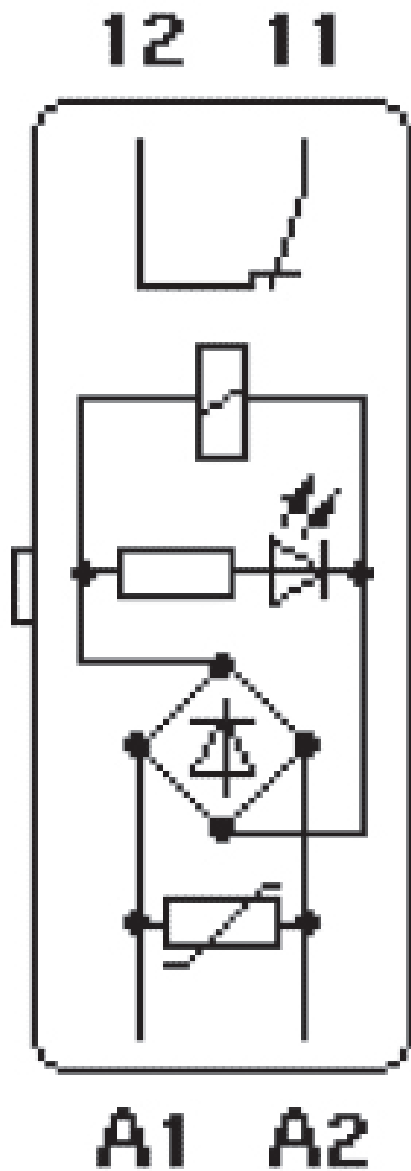
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Drawings

Circuit diagram



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Environmental product compliance

EU REACH SVHC

| REACH candidate substance (CAS No.) | |
|-------------------------------------|--|
|-------------------------------------|--|

| | |
|--|----------------------------|
| | No substance above 0.1 wt% |
|--|----------------------------|

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