

ST-REL3-KG 24/ 1/SO38 - Relay connectors



2829564

<https://www.phoenixcontact.com/us/products/2829564>

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Relay connector for high inrush currents, contacts (AgCdO+capacitive W): medium to large loads, 1 N/O contact, input voltage 24 V DC, max. inrush current 10 A

Your advantages

- Can be snapped onto standard EN DIN rails
- Clear terminal marking using Phoenix Contact labeling material
- Modular DIN-rail mountable EMG housing with 17.5 mm design width
- User-friendly plug-in housing
- Easy maintenance

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2829564 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C460 |
| Product key | DK6181 |
| GTIN | 4017918078515 |
| Weight per piece (including packing) | 37.72 g |
| Weight per piece (excluding packing) | 37.72 g |
| Customs tariff number | 85364190 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|-------------------------|-----------------------|
| Product type | Relay Module |
| Mechanical service life | approx. 10^7 cycles |

Insulation characteristics

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

Data management status

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

Electrical properties

| | |
|---|--|
| Maximum power dissipation for nominal condition | 0.67 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 DC |
| Input voltage range | 20.4 V DC ... 26.4 V DC (20 °C) |
| Drive and function | monostable |
| Typical input current at U_N | 28 mA |
| Typical response time | 13 ms |
| Typical release time | 15 ms |
| Protective circuit | Freewheeling diode; Freewheeling diode |
| Operating voltage display | Yellow LED |

Output data

Switching

| | |
|---------------------------------------|--|
| Contact switching type | 1 N/O contact with lead contact |
| Type of switch contact | Lead contact |
| Contact material | AgCdO |
| Note | Main contact silver cadmium oxide (AgCdO): lead contact tungsten |
| Maximum switching voltage | 250 V AC |
| Limiting continuous current | 10 A |
| Maximum inrush current | 80 A (20 ms) |
| Interrupting rating (ohmic load) max. | 2500 VA (for 250 V AC) |

Dimensions

| | |
|--------|---------|
| Width | 20.8 mm |
| Height | 42.5 mm |

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| | |
|-------|--------|
| Depth | 112 mm |
|-------|--------|

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 |
| Assembly note | Horizontal with zero spacing, vertical with spacing |

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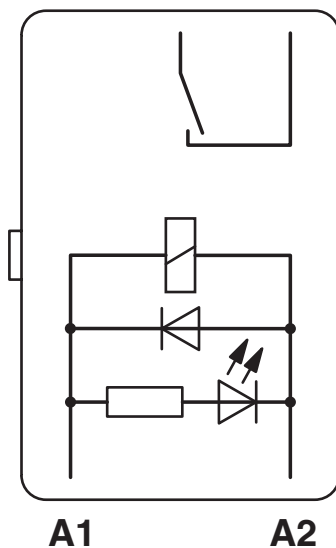
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Drawings

Circuit diagram

13 14



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Classifications

UNSPSC

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

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Environmental product compliance

EU RoHS

| | |
|---|------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a) |

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) |
|-------------------------------------|----------------------|

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