

Safety relays - REL-SR- 24DC/2X21 - 2961574

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Safety relay with force-guided contacts in accordance with EN 50205, contact type 2 changeover contacts, connection suitable for PCB mounting. The requirements for type A in accordance with EN 50205 are satisfied if the circuit is designed as 1 N/O contact / 1 N/C contact.

Why buy this product

- Like all PSR safety relays, equipped with forcibly guided contacts according to EN 50205
- Single-channel control

Key Commercial Data

| | |
|------------------------|---|
| Packing unit | 10 STK |
| Minimum order quantity | 10 STK |
| GTIN |  4 017918 996796 |
| GTIN | 4017918996796 |

Technical data

Dimensions

| | |
|--------|---------|
| Width | 12.6 mm |
| Height | 29 mm |
| Depth | 25.5 mm |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -25 °C ... 70 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |

Input data

| | |
|--|-----------------------|
| Rated control circuit supply voltage U_s | 24 V DC -15 % / +10 % |
| Rated control supply current I_s | typ. 29 mA |
| Typical response time | 10 ms |
| Typical release time | 4 ms |

Output data

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Technical data

Output data

| | |
|---------------------------------------|-----------------------------------|
| Contact type | 2 PDT |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 15 V |
| Limiting continuous current | 6 A (N/O contact) |
| | 6 A (N/C contact) |
| Maximum inrush current | 6 A |
| Inrush current, minimum | 10 mA |
| Interrupting rating (ohmic load) max. | 144 W (24 V DC, $\tau = 0$ ms) |
| | 288 W (48 V DC, $\tau = 0$ ms) |
| | 88 W (110 V DC, $\tau = 0$ ms) |
| | 110 W (220 V DC, $\tau = 0$ ms) |
| | 1500 VA (250 V AC, $\tau = 0$ ms) |
| Switching capacity min. | 0.24 W |
| Mechanical service life | approx. 10^7 cycles |
| Switching capacity (360/h cycles) | 6 A (24 V DC; N/O contact) |
| | 3 A (230 V AC; N/O contact) |

General

| | |
|------------------------|---|
| Relay type | Electromechanical relay with forcibly guided contacts in accordance with EN 50205 |
| Nominal operating mode | 100% operating factor |
| Net weight | 16.995 g |
| Degree of protection | IP20 |

Connection data

| | |
|-------------------|-----------|
| Connection method | pluggable |
|-------------------|-----------|

Standards and Regulations

| | |
|--------------------------|--|
| Designation | Air clearances and creepage distances between the power circuits |
| Standards/regulations | DIN EN 50178 |
| | IEC 60664-1 |
| Rated insulation voltage | 250 V AC |
| Rated surge voltage | 6 kV |
| Insulation | Safe isolation, reinforced insulation |
| Degree of pollution | 2 |
| Overvoltage category | III |

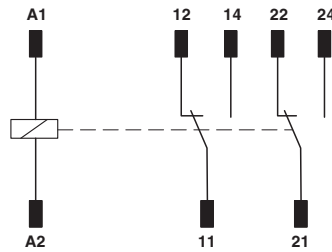
Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

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Block diagram



Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

| | | |
|-----|--|--------------------------|
| EAC | | RU C- DE.A*30.B.01082 |
|-----|--|--------------------------|

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