

Safety relays - REL-SR- 24DC/2X21/FG - 2908777


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Safety relay with force-guided contacts in accordance with DIN EN 61810-3, contact type: 2 changeover contacts. The requirements for type A in accordance with DIN EN 61810-3 are satisfied if the circuit is designed as 1 N/O contact / 1 N/C contact.



Key Commercial Data

| | |
|------------------------|---|
| Packing unit | 20 pc |
| Minimum order quantity | 20 pc |
| GTIN |  4 055626 338651 |
| GTIN | 4055626338651 |

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 |
| Degree of protection | IP20 |

Coil side

| | |
|---|-------------|
| Nominal input voltage U_N | 24 V DC |
| Input voltage range in reference to U_N | see diagram |
| Typical input current at U_N | 29 mA |
| Typical response time | 10 ms |
| Typical release time | 4 ms |
| Voltage type for actuation | DC |
| Power dissipation for nominal condition | 0.7 W |

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Technical data

Contact side

| | |
|---------------------------------------|------------------------|
| Contact type | 2 PDT |
| Type of switch contact | Single contact |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 15 V |
| Min. switching current | 10 mA |
| Maximum inrush current | 6 A |
| Limiting continuous current | 6 A |
| Interrupting rating (ohmic load) max. | 144 W (24 V DC) |
| | 288 W (at 48 V DC) |
| | 88 W (at 110 V DC) |
| | 110 W (at 220 V DC) |
| | 1500 VA (for 250 V AC) |
| Switching capacity min. | 0.24 W |
| Switching capacity | 2 A (at 24 V, DC13) |
| | 3 A (at 230 V, AC15) |
| Motor load according to UL 508 | 10 LRA / 0,5 FLA |

General

| | |
|-------------------------|---|
| Operating mode | 100% operating factor |
| Mechanical service life | approx. 10 ⁷ cycles |
| B _{10d} | 600000 Cycles (AC1; 250 V / 6 A; 1 NO) |
| | 900000 Cycles (AC1; 250 V / 3 A; 1 NO) |
| | 1800000 Cycles (AC1; 250 V / 1,5 A; 1 NO) |
| | 180000 Cycles (AC15; 250 V / 3 A; 1 NO) |
| | 560000 Cycles (AC15; 250 V / 2 A; 1 NO) |
| | 4600000 Cycles (AC15; 250 V / 0,75 A; 1 NO) |
| | 360000 Cycles (DC13; 24 V / 3 A; 1 NO) |
| | 740000 Cycles (DC13; 24 V / 1,5 A; 1 NO) |
| | 4200000 Cycles (DC13; 24 V / 0,75 A; 1 NO) |

Connection data

| | |
|-------------------|-------------------|
| Connection method | Solder connection |
|-------------------|-------------------|

Standards and Regulations

| | |
|--------------------------|--|
| Designation | Air clearances and creepage distances between the power circuits |
| Standards/regulations | DIN EN 50178 |
| | DIN EN 61810-3 |
| | IEC 60664-1 |
| Rated insulation voltage | 250 V AC |
| Rated surge voltage | 6 kV |
| Insulation | Safe isolation, reinforced insulation |

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Technical data

Standards and Regulations

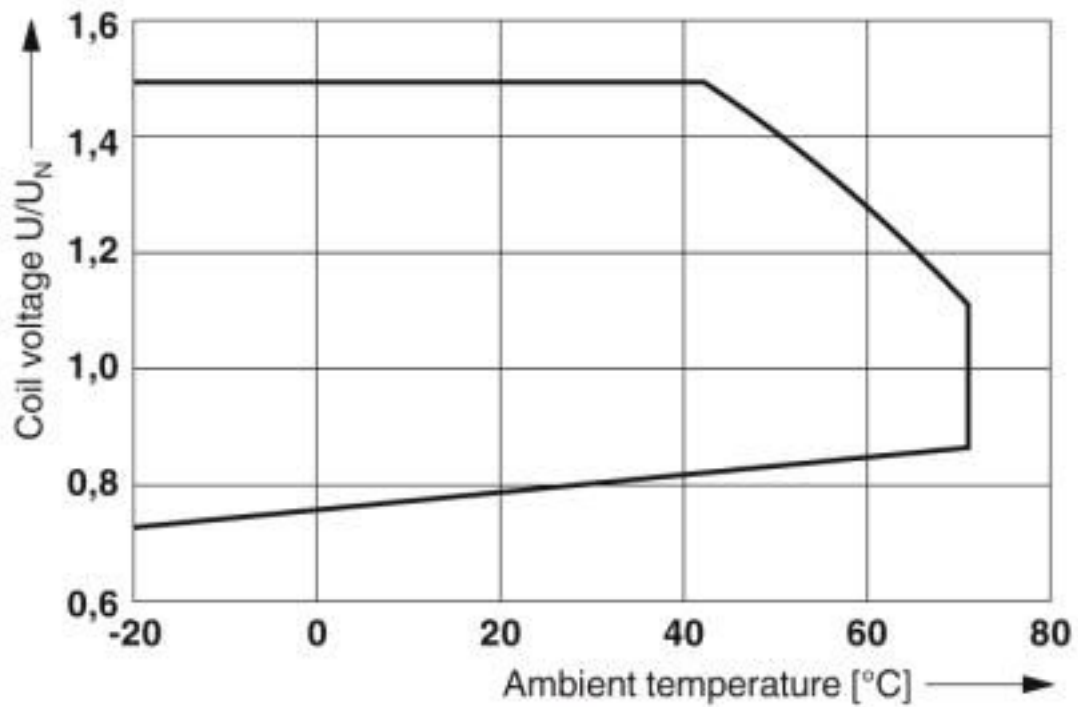
| | |
|----------------------|-----|
| Pollution degree | 2 |
| Overvoltage category | III |

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

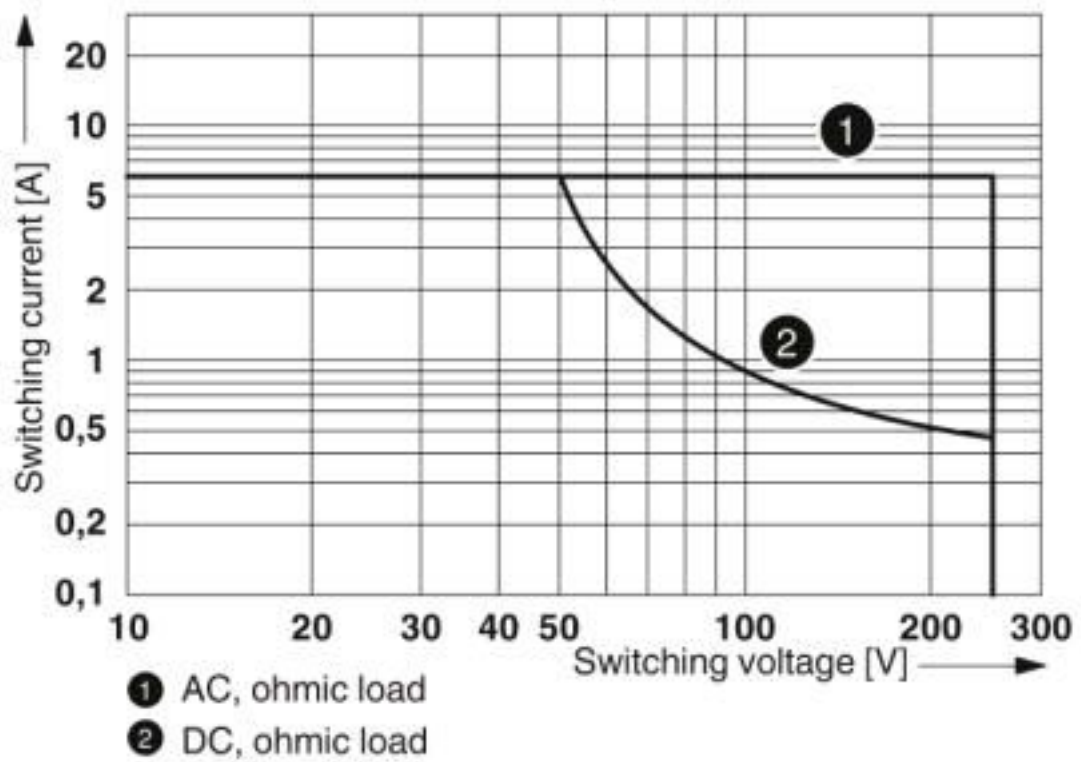
Diagram



Operating voltage range

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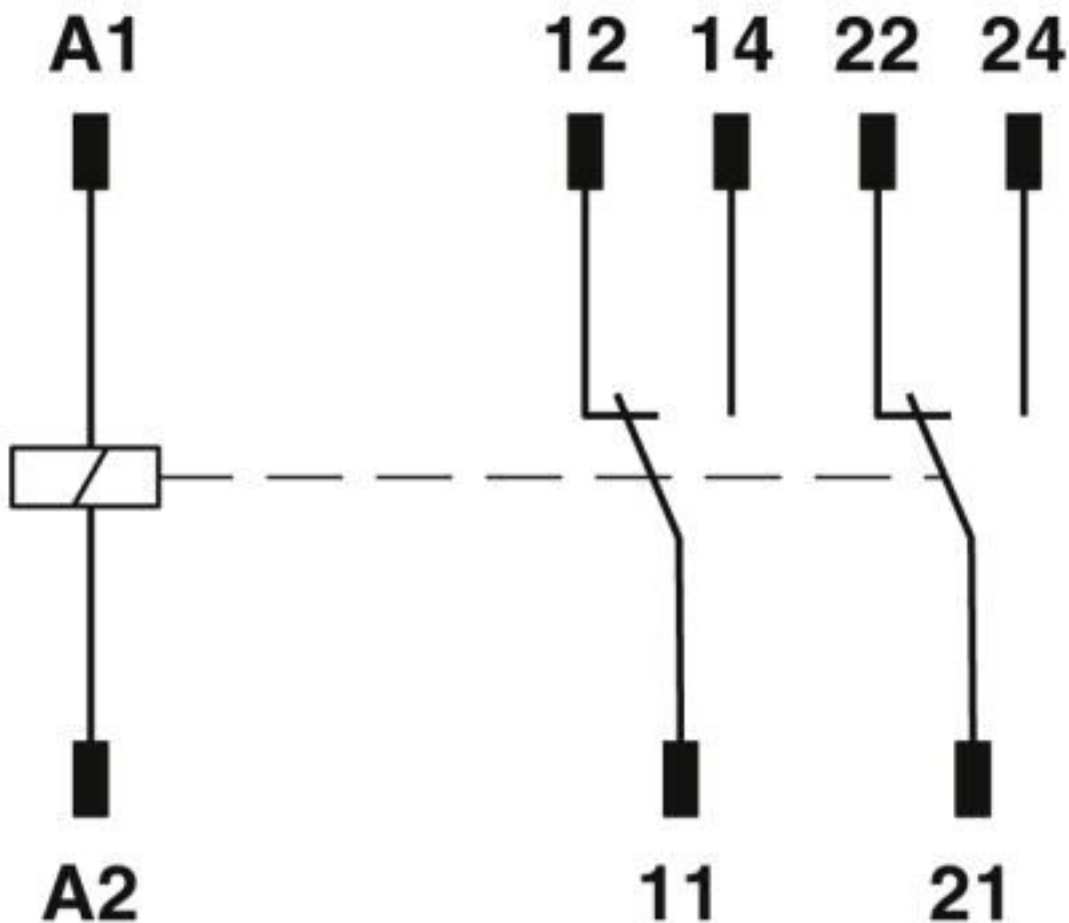
Diagram



Interrupting rating

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Circuit diagram



Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27371601 |
| eCl@ss 5.0 | 27371600 |
| eCl@ss 5.1 | 27371600 |
| eCl@ss 6.0 | 27371600 |
| eCl@ss 7.0 | 27371601 |
| eCl@ss 8.0 | 27371601 |
| eCl@ss 9.0 | 27371601 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001437 |
| ETIM 3.0 | EC001437 |
| ETIM 4.0 | EC001437 |
| ETIM 5.0 | EC001437 |
| ETIM 6.0 | EC001437 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 7.0 | EC001437 |
|----------|----------|

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211901 |
| UNSPSC 7.0901 | 39121501 |
| UNSPSC 11 | 39121501 |
| UNSPSC 12.01 | 39121501 |
| UNSPSC 13.2 | 39122334 |
| UNSPSC 18.0 | 39122334 |
| UNSPSC 19.0 | 39122334 |
| UNSPSC 20.0 | 39122334 |
| UNSPSC 21.0 | 39122334 |

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized


Ex Approvals

Approval details

| | | | |
|---------------|---|---|---------------|
| UL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 228652 |
|---------------|---|---|---------------|

| | | | |
|----------------|---|---|---------------|
| cUL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 228652 |
|----------------|---|---|---------------|

| | | |
|-----|---|-----------------|
| EAC |  | TR_TS_D_00573_c |
|-----|---|-----------------|

| | | |
|-----|---|-------------------------|
| EAC |  | RU*C- DE.*08.B.00010 |
|-----|---|-------------------------|

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Approvals

cULus Recognized



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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

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