

Single relay - REL-MR-24DC/21-21/ATEX - 2906213


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Plug-in miniature power relay, RT III sealed with power contacts, 2 changeover contacts, input voltage: 24 V DC, in connection with the corresponding PLC base approved in accordance with ATEX/IECEX (zone 2) and Ex zone class I, div. 2.



Key Commercial Data

| | |
|------------------------|---|
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| GTIN |  4 055626 047409 |
| GTIN | 4055626047409 |

Technical data

Dimensions

| | |
|--------|---------|
| Width | 12.7 mm |
| Height | 29 mm |
| Depth | 15.7 mm |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Coil side

| | |
|---|-------------------------------------|
| Nominal input voltage U_N | 24 V DC |
| Typical input current at U_N | 17 mA |
| Typical response time | 7 ms |
| Typical release time | 3 ms |
| Coil resistance | 1440 Ω \pm 10 % (at 20 °C) |
| Power dissipation for nominal condition | 0.41 W |

Contact side

| | |
|--------------|-------|
| Contact type | 2 PDT |
|--------------|-------|

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Technical data

Contact side

| | |
|---------------------------------------|------------------------|
| Type of switch contact | Single contact |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V (at 10 mA) |
| Min. switching current | 10 mA (At 5 V) |
| Maximum inrush current | 25 A (20 ms) |
| Limiting continuous current | 8 A |
| Interrupting rating (ohmic load) max. | 190 W (at 24 V DC) |
| | 85 W (at 48 V DC) |
| | 60 W (at 60 V DC) |
| | 44 W (at 110 V DC) |
| | 60 W (at 220 V DC) |
| | 2000 VA (for 250 V AC) |
| Switching capacity | 2 A (at 24 V, DC13) |
| | 0.2 A (at 250 V, DC13) |
| | 3 A (at 24 V, AC15) |
| | 3 A (at 120 V, AC15) |
| | 3 A (at 250 V, AC15) |

General

| | |
|--|---|
| Test voltage relay winding/relay contact | 5 kV AC (50 Hz, 1 min.) |
| Test voltage relay contact/relay contact | 2.5 kV AC (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Degree of protection | RT III |
| Mechanical service life | 3x 10 ⁷ cycles |
| Service life, electrical | see diagram |
| Mounting position | any |
| Assembly instructions | Can be aligned without spacing (> 70 °C ≥ 2.5 mm) |

Standards and Regulations

| | |
|-----------------------|------------------|
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| Insulation | Basic insulation |
| Degree of pollution | 3 |
| Overvoltage category | III |

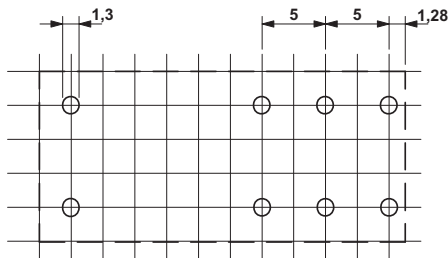
Environmental Product Compliance

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

Drawings

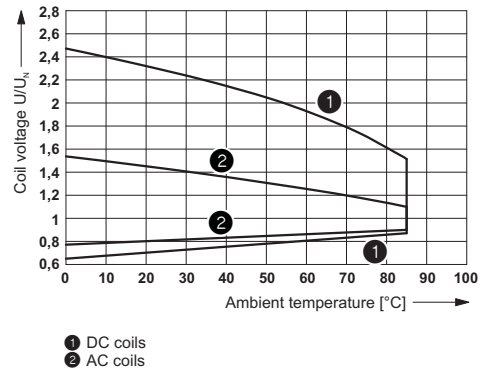
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Drilling diagram



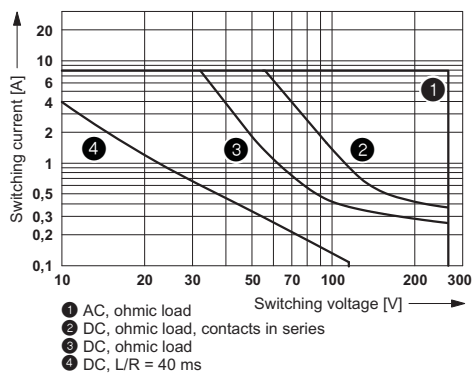
Basic pitch 2.5 mm

Diagram



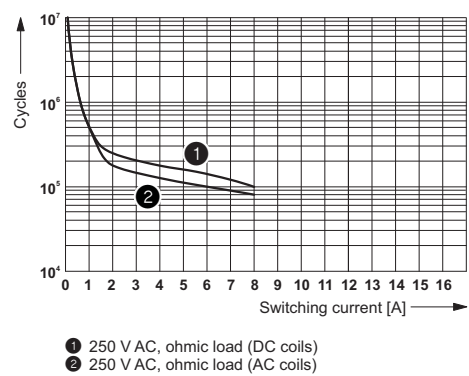
Operating voltage range

Diagram



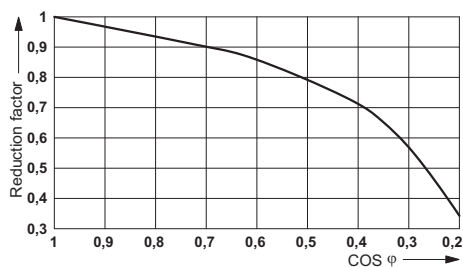
Interrupting rating

Diagram



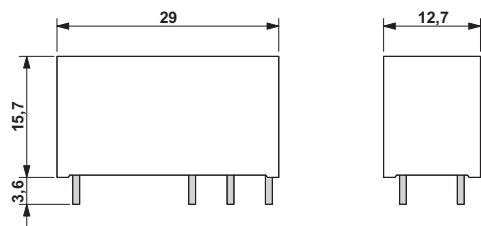
Electrical service life

Diagram



Service life reduction factor with various cos phi

Dimensional drawing



Approvals

Approvals

Single relay - REL-MR-24DC/21-21/ATEX - 2906213

Approvals

Approvals

UL Recognized / cUL Recognized / VDE Zeichengenehmigung / 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 |
| VDE Zeichengenehmigung | | http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx | 40007758 |
| EAC | | | RU C- DE.A*30.B.01082 |
| cULus Recognized | | | |

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