

Single relay - REL-MR- 24DC/1IC - 2961341

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Pluggable miniature relays, with power contact for lamp loads and capacitive loads, 1 N/O contact, input voltage 24 V DC

Product Features

- Safe isolation according to DIN EN 50178 between coil and contact
- High degree of protection, up to RT III (comparable with IP67) depending on type
- Power contacts up to 16 A

Key commercial data

| | |
|-------------------------|---------------|
| package_quantity | 10 |
| GTIN | 4017918187569 |

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 |
| Input voltage range in reference to U_N | (refer to the diagram) |
| Nominal input current at U_{IN} | 17 mA |
| Typical response time | 8 ms |
| Typical release time | 3 ms |
| Coil resistance | 1440 $\Omega \pm 10\%$ (at 20 °C) |

Contact side

| | |
|----------------------------------|-------------------------------|
| Contact type | Single contact, 1 N/O contact |
| Contact material | AgSnO |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 12 V (at 100 mA) |
| Maximum inrush current | 80 A (20 ms) |

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Technical data

Contact side

| | |
|--|---|
| Maximum inrush current | 130 A (peak, at capacitive load, 230 V AC, 24 µF) |
| Min. switching current | 100 mA (at 12 V DC) |
| Limiting continuous current | 16 A |
| Interrupting rating (ohmic load) max. | 80 W (at 220 V DC) |
| Interrupting rating (ohmic load) max. | 50 W (at 110 V DC) |
| Interrupting rating (ohmic load) max. | 48 W (at 60 V DC) |
| Interrupting rating (ohmic load) max. | 58 W (at 48 V DC) |
| Interrupting rating (ohmic load) max. | 384 W (at 24 V DC) |
| Interrupting rating (ohmic load) max. | 4000 VA (for 250 V AC) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 2 A (at 24 V, DC13) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 0.2 A (at 110 V, DC13) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 0.2 A (at 250 V, DC13) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 6 A (at 24 V, AC15) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 6 A (at 120 V, AC15) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 6 A (at 250 V, AC15) |

General

| | |
|--|---|
| Test voltage relay winding/relay contact | 5 kV AC (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Mechanical service life | 3 x 10 ⁷ cycles |
| Standards/regulations | IEC 60664 |
| Standards/regulations | EN 50178 |
| Standards/regulations | IEC 62103 |
| Pollution degree | 3 |
| Surge voltage category | III |
| Mounting position | Any |
| Assembly instructions | Can be aligned without spacing (> 70 °C ≥ 2.5 mm) |

classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27371104 |
| eCl@ss 4.1 | 27371104 |
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371001 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27371001 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000196 |
| ETIM 3.0 | EC000196 |

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classifications

ETIM

| | |
|-----------------|----------|
| ETIM 4.0 | EC000196 |
| ETIM 5.0 | EC000196 |

UNSPSC

| | |
|----------------------|----------|
| UNSPSC 6.01 | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11 | 39121515 |
| UNSPSC 12.01 | 39121515 |
| UNSPSC 13.2 | 39121515 |

approvals

UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / GOST / GL / cULus Recognized /

Approval details

UL Recognized

VDE Gutachten mit Fertigungsüberwachung

| | |
|----------------------------|--|
| Nominal voltage UN | |
| Nominal current IN | |
| mm ² /AWG/kcmil | |

cUL Recognized

GOST

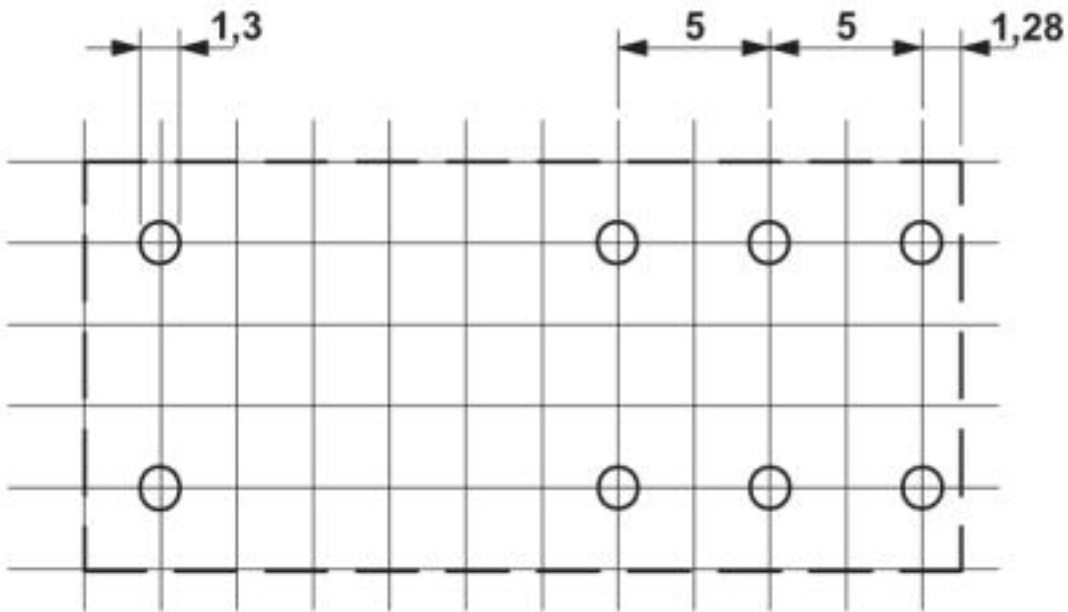
GL

cULus Recognized

Drawings

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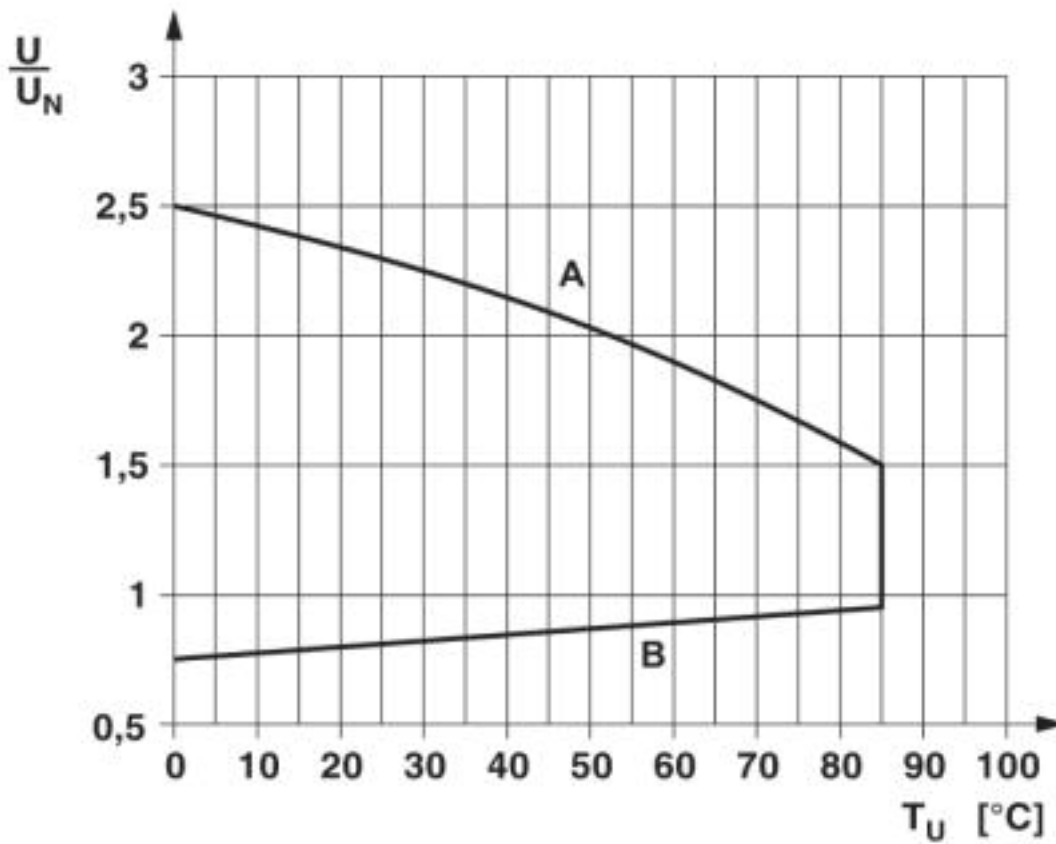
Drilling diagram



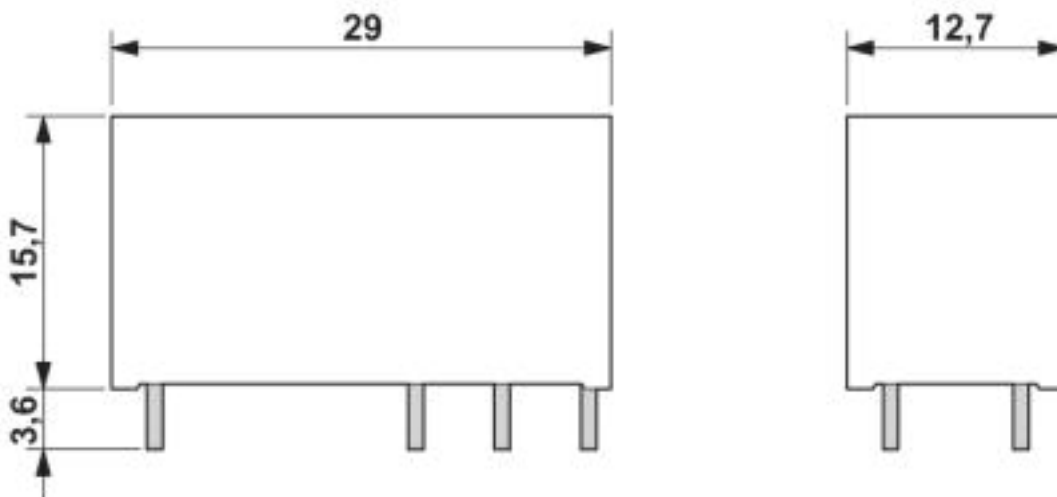
a = pitch division 2.5 mm

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Diagram

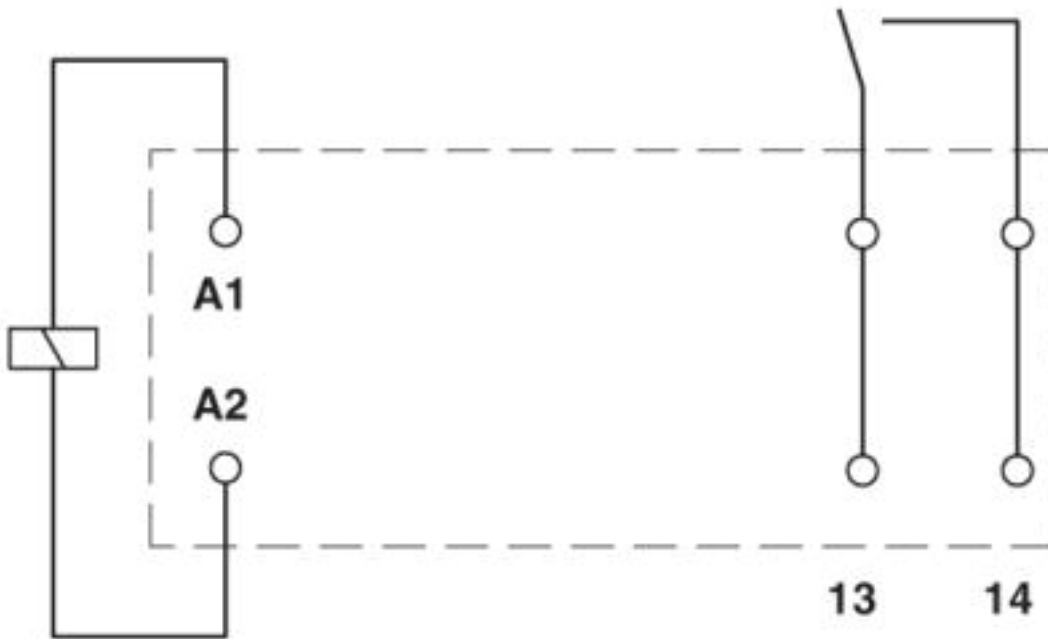


Dimensioned drawing



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Circuit diagram



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