

Single relay - REL-MR- 24DC/21-21AU/MS - 2987985

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Plug-in miniature relay, with multi-layer contact with hard gold coating, 2 PDTs, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2-, input voltage 24 V DC

Why buy this product

- With detectable manual operation
- DC types with integrated freewheeling diode
- Integrated status LED
- Mechanical switch position indicator
- Switching current of up to 16 A



Key commercial data

| | |
|--------------------------------------|---|
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| GTIN |  4 046356 480994 |
| Weight per Piece (excluding packing) | 18.41 g |
| Custom tariff number | 85364190 |
| Country of origin | China |

Technical data

Dimensions

| | |
|--------|---------|
| Width | 12.7 mm |
| Height | 29 mm |
| Depth | 25 mm |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -40 °C ... 70 °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 | 18 mA |

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Technical data

Coil side

| | |
|-----------------------|------|
| Typical response time | 9 ms |
| Typical release time | 6 ms |

Contact side

| | |
|--|--|
| Contact type | 2 PDT |
| Contact material | AgNi, hard gold-plated |
| Maximum switching voltage | 30 V AC 36 V DC |
| Minimum switching voltage | 12 V (At 1 mA) |
| Maximum inrush current | 50 mA |
| Min. switching current | 1 mA (at 12 V) |
| Limiting continuous current | 50 mA |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 1.5 A (at 240 V, AC15) |
| Note | the following values are applicable if a gold layer is destroyed |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 6 V |
| Limiting continuous current | 16 A |
| Maximum inrush current | 30 A (300 ms) |
| Min. switching current | 100 mA |
| Interrupting rating (ohmic load) max. | 2000 VA (for 250 V AC) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 1 A (at 24 V, DC13) 1.5 A (at 24 V, AC15) 1.5 A (at 120 V, AC15) 1.5 A (at 240 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.) |
| Mechanical service life | 5 x 10 ⁶ cycles |
| Standards/regulations | DIN EN 61810-1 VDE 0435-201 EN 50178 IEC 62103 |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27371104 |
| eCl@ss 4.1 | 27371104 |
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371001 |

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eCl@ss

| | |
|------------|----------|
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27371601 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000196 |
| ETIM 3.0 | EC000196 |
| ETIM 4.0 | EC000196 |
| ETIM 5.0 | EC001437 |

UNSPSC

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

Approvals

Approvals

Approvals

UL Recognized / VDE Zeichengenehmigung / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approvals submitted


Approval details

| |
|---------------|
| UL Recognized |
|---------------|


| |
|------------------------|
| VDE Zeichengenehmigung |
|------------------------|

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Approvals

cUL Recognized 

EAC

cULus Recognized 

Accessories

Necessary add-on products

Relay socket - PR1-BSC3/2X21 - 2833521



Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, screw connections, connection facility for input/interference suppression modules

Relay socket - PR1-BSP3/2X21 - 2833534

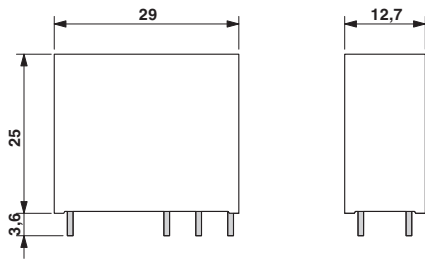


Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, spring-cage connections, connection facility for input/interference suppression modules

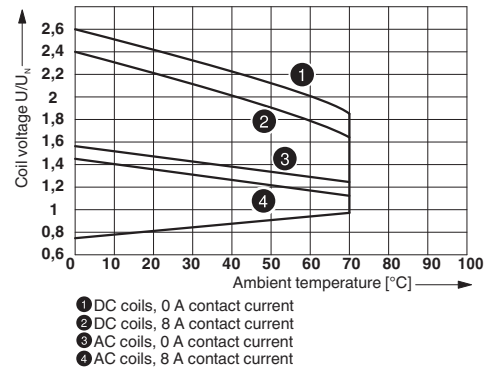
Drawings

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Dimensioned drawing

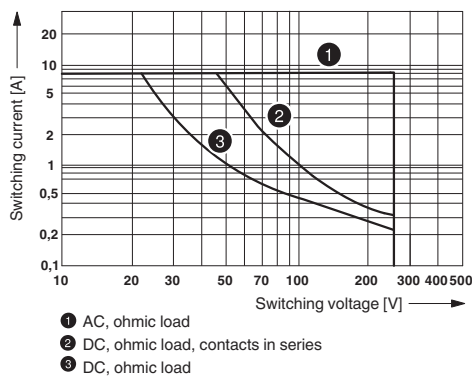


Diagram



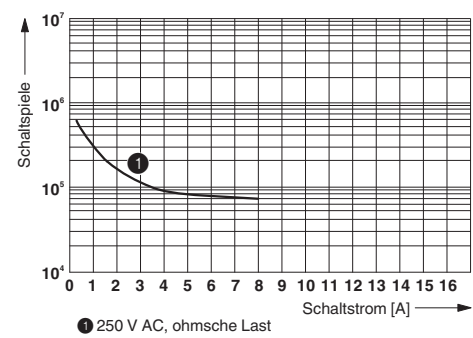
Operating voltage range

Diagram



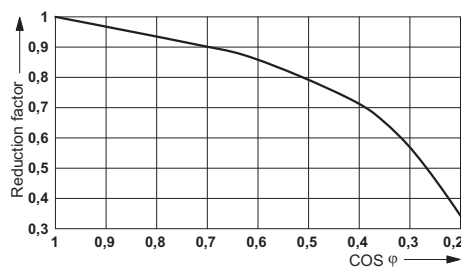
Interrupting rating

Diagram



Electrical service life

Diagram



Service life reduction factor with various cos phi