

## Single relay - REL-MR- 24AC/21HC AU - 2961503

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Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 PDT, input voltage 24 V AC

### Product Features

- ✓ RT III wash tight (comparable with IP67)
- ✓ Switching current of up to 16 A



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Minimum order quantity               | 10 pc    |
| Weight per Piece (excluding packing) | 14.93 g  |
| Custom tariff number                 | 85364190 |
| Country of origin                    | Austria  |

### 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 AC                                      |
| Typical input current at $U_N$ | 32 mA (at 50 Hz)                             |
|                                | 24 mA (At 60 Hz)                             |
| Typical response time          | 3 ms ... 12 ms (depending on phase relation) |

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## Technical data

### Coil side

|                            |                                             |
|----------------------------|---------------------------------------------|
| Typical release time range | 2 ms ... 9 ms (depending on phase relation) |
| Coil resistance            | 350 $\Omega$ $\pm$ 10 % (at 20 °C)          |

### Contact side

|                                                        |                                                                  |
|--------------------------------------------------------|------------------------------------------------------------------|
| Contact type                                           | 1 PDT                                                            |
| Contact material                                       | AgNi, hard gold-plated                                           |
| Maximum switching voltage                              | 30 V AC                                                          |
|                                                        | 36 V DC                                                          |
| Minimum switching voltage                              | 100 mV (at 10 mA)                                                |
| Maximum inrush current                                 | 50 mA                                                            |
| Min. switching current                                 | 1 mA (at 24 V)                                                   |
| Limiting continuous current                            | 50 mA                                                            |
| Interrupting rating (ohmic load) max.                  | 1.2 W (at 24 V DC)                                               |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 2 A (at 24 V, AC15)                                              |
| Note                                                   | the following values are applicable if a gold layer is destroyed |
| Maximum switching voltage                              | 250 V AC/DC                                                      |
| Minimum switching voltage                              | 12 V (at 10 mA)                                                  |
| Limiting continuous current                            | 16 A                                                             |
| Maximum inrush current                                 | 15 A (300 ms)                                                    |
| Min. switching current                                 | 10 mA (at 12 V)                                                  |
| Interrupting rating (ohmic load) max.                  | 384 W (at 24 V DC)                                               |
|                                                        | 58 W (at 48 V DC)                                                |
|                                                        | 48 W (at 60 V DC)                                                |
|                                                        | 50 W (at 110 V DC)                                               |
|                                                        | 80 W (at 220 V DC)                                               |
|                                                        | 4000 VA (for 250 V AC)                                           |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 2 A (at 24 V, DC13)                                              |
|                                                        | 0.2 A (at 110 V, DC13)                                           |
|                                                        | 0.2 A (at 250 V, DC13)                                           |
|                                                        | 2 A (at 24 V, AC15)                                              |
|                                                        | 2 A (at 120 V, AC15)                                             |
|                                                        | 2 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                  | 1 x 10 <sup>7</sup> cycles |
| Standards/regulations                    | IEC 60664                  |

## Single relay - REL-MR- 24AC/21HC AU - 2961503

### Technical data

#### General

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
|                       | EN 50178                                                               |
|                       | IEC 62103                                                              |
| Pollution degree      | 3                                                                      |
| Overvoltage category  | III                                                                    |
| Mounting position     | any                                                                    |
| Assembly instructions | Can be aligned without spacing ( $> 70\text{ °C} \geq 2.5\text{ mm}$ ) |

### 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 | 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

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UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / EAC / cULus Recognized

## Single relay - REL-MR- 24AC/21HC AU - 2961503

### Approvals

Ex Approvals

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Approvals submitted

### Approval details

UL Recognized 

VDE Gutachten mit Fertigungsüberwachung 

cUL Recognized 

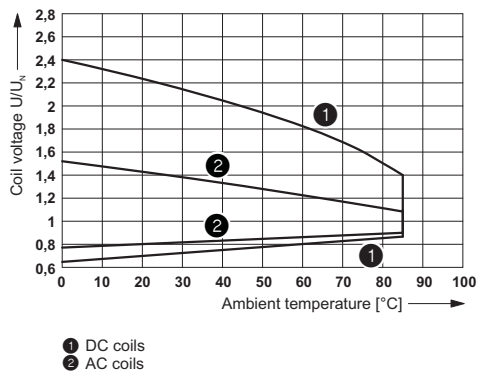
EAC

cULus Recognized 

### Drawings

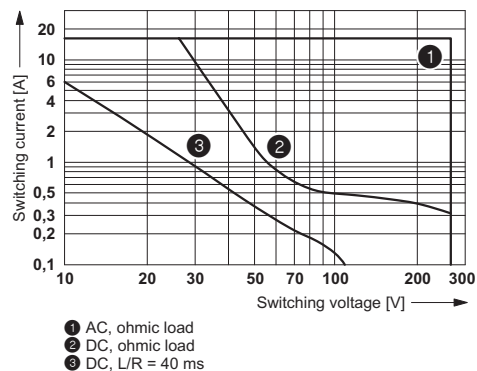
## Single relay - REL-MR- 24AC/21HC AU - 2961503

Diagram



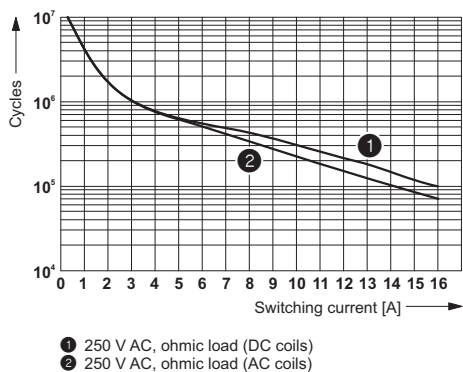
Operating voltage range

Diagram



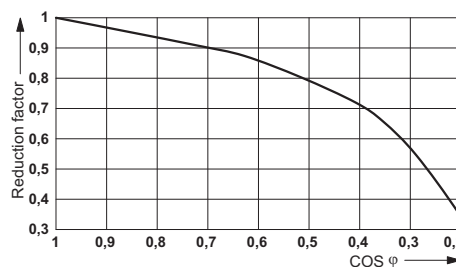
Interrupting rating

Diagram



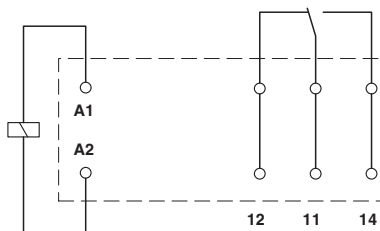
Electrical service life

Diagram



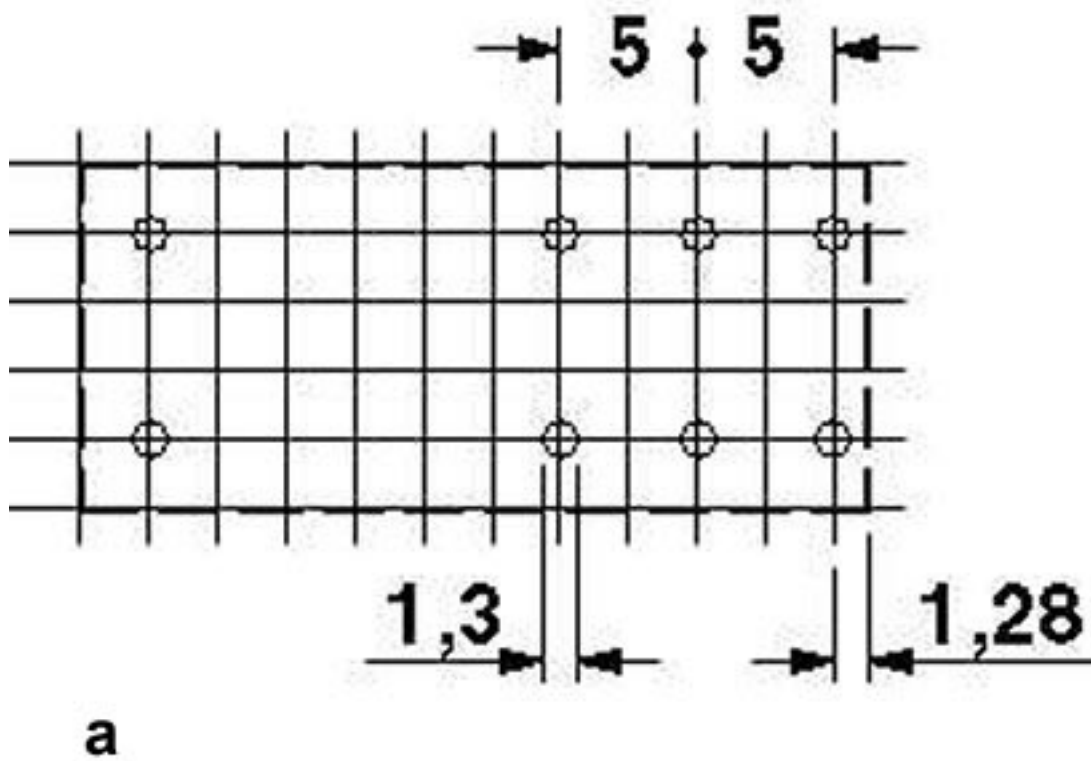
Service life reduction factor with various cos phi

Circuit diagram



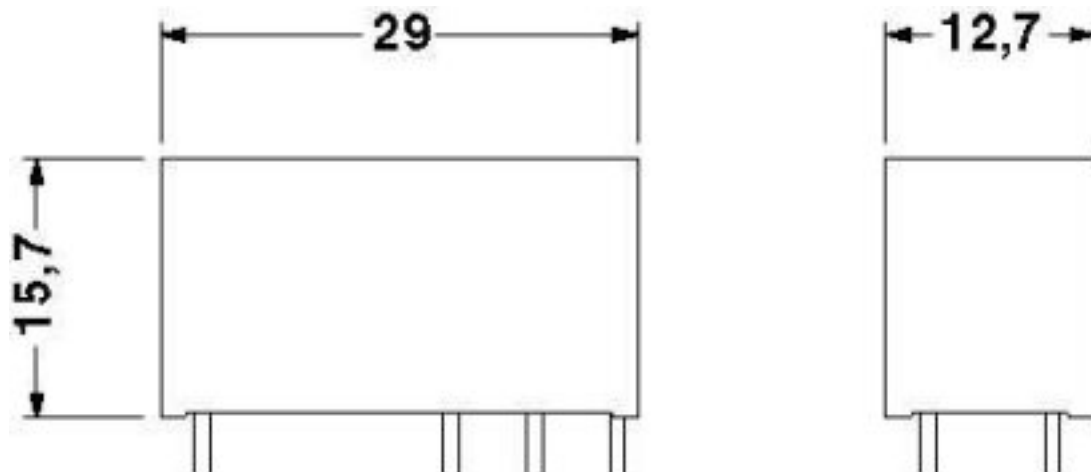
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Drilling diagram



a = pitch division 2.5 mm

Dimensional drawing





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