



#### Contact characteristics

|                                                                          |                     |    |            |
|--------------------------------------------------------------------------|---------------------|----|------------|
| Contact configuration                                                    | 1 C/O               |    |            |
| Rated insulation voltage $U_i$ IEC/EN                                    | V                   |    | 250        |
| Rated impulse withstand voltage $U_{imp}$                                | kV                  |    | 4          |
| IEC Conventional free air thermal current $I_{th} \leq 40^\circ\text{C}$ | A                   |    | 6          |
| Maximum instantaneous current                                            | A                   |    | 20 (500ms) |
| Rated current ( $I_n$ )                                                  | A                   |    | 6          |
| UL/CSA and IEC/EN 60947-5-1 designation                                  | B300 – R300         |    |            |
| UL rating                                                                | 6A 277VAC; 6A 30VDC |    |            |
| Max contrrollable power in                                               | AC-1                | W  | 1500       |
|                                                                          | AC-15               | VA | 360        |
| Rated operating power AC-1                                               |                     | VA | 1500       |
| Rated operating power AC-15                                              | 230 VAC             | VA | 360        |
| Single-phase motor control                                               | 230VAC              | kW | 0.186      |
| Rated operating current DC-1                                             | 30V                 | A  | 6          |
|                                                                          | 110V                | A  | 0.2        |
|                                                                          | 220V                | A  | 0.12       |

|                        |        |  |         |
|------------------------|--------|--|---------|
| Minimum switching load | V / mA |  | 5 / 100 |
| Contact impedance      | mΩ     |  | 100     |
| Contact material       | Ag/Ni  |  |         |

#### Operating times

|         |    |  |    |
|---------|----|--|----|
| Closing | ms |  | ≤8 |
| Opening | ms |  | ≤4 |

#### Operations

|                     |        |  |          |
|---------------------|--------|--|----------|
| Mechanical life     | cycles |  | 10000000 |
| Electrical life AC1 | cycles |  | 30000    |

#### Coil characteristics

|                                     |         |          |                    |
|-------------------------------------|---------|----------|--------------------|
| Relay control voltage               | V       |          | 12VDC;<br>12VAC/DC |
| Average coil consumption DC at 20°C | W       |          | 0.2                |
| Operating range                     | Closing | % $U_n$  | ≥75                |
|                                     | Opening | % $U_n$  | ≥5                 |
| Maximum cycle frequency             |         | cycles/h | 10000              |

#### Mechanical features

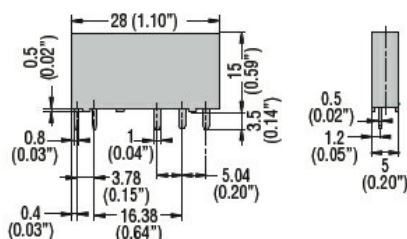
|                                                   |             |  |     |
|---------------------------------------------------|-------------|--|-----|
| Max socket terminal tightening torque             | Nm          |  | 0.5 |
| Socket screw tightening tool (cross / flat blade) | PH0 / 3.5mm |  |     |
| Conductor section                                 | AWG/Kcmil   |  |     |

|                    |                       |                  |                 |     |
|--------------------|-----------------------|------------------|-----------------|-----|
|                    | IEC                   | min              |                 | 20  |
|                    |                       | max              |                 | 16  |
|                    |                       | min              | mm <sup>2</sup> | 0.5 |
|                    |                       | max              | mm <sup>2</sup> | 1.5 |
| Operating position |                       |                  |                 |     |
|                    |                       | normal           |                 | Any |
|                    |                       | On 35mm DIN rail |                 |     |
| Fixing             |                       |                  |                 |     |
| Ambient conditions |                       |                  |                 |     |
| Temperature        |                       |                  |                 |     |
|                    | Operating temperature | min              | °C              | -40 |
|                    |                       | max              | °C              | +70 |
|                    | Storage temperature   | min              | °C              | -40 |
|                    |                       | max              | °C              | +80 |

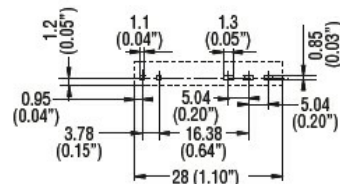
#### Other features

|                                       |                     |
|---------------------------------------|---------------------|
| Indication                            | Yes (on the socket) |
| Mechanical contact position indicator | No                  |
| Mechanical test actuator              | No                  |

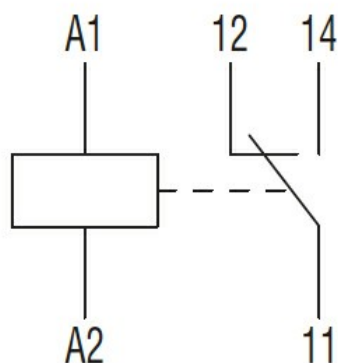
#### Dimensions



PCB layout



#### Wiring diagrams



#### Certifications and compliance

##### Compliance

IEC/EN 61810

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Certificates

CSA

cURus

EAC

VDE

ETIM classification

ETIM 8.0

EC001437 -  
Switching relay