



|                                                   |         |          |             |
|---------------------------------------------------|---------|----------|-------------|
| Product designation                               |         |          | MINIATURE   |
| Product type designation                          |         |          | RELAYS      |
|                                                   |         |          | HR502C      |
| Contact characteristics                           |         |          |             |
| Contact configuration                             |         |          | 2 C/O       |
| Rated insulation voltage Ui IEC/EN                | V       |          | 250         |
| Rated impulse withstand voltage Uimp              | kV      |          | 6           |
| IEC Conventional free air thermal current Ith     | A       |          | 8           |
| Maximum instantaneous current                     | A       |          | 10          |
| Rated current (In)                                | A       |          | 8           |
| Relay control voltage                             | V       |          | 24VDC       |
| Max contrallable power in                         |         |          |             |
|                                                   | AC-1    | W        | 2000        |
|                                                   | AC-15   | VA       | 150         |
| Rated operating power AC-1                        |         |          |             |
|                                                   |         | VA       | 2000        |
| Rated operating power AC-15                       |         |          |             |
|                                                   | 230 VAC | VA       | 150         |
| Rated operating current DC-1                      |         |          |             |
|                                                   | 30V     | A        | 8           |
|                                                   | 110V    | A        | 0.3         |
|                                                   | 220V    | A        | 0.1         |
| Minimum switching load                            |         | V / mA   | 5 / 100     |
| Contact impedance                                 |         | mΩ       | 100         |
| Contact material                                  |         |          | Ag/Ni       |
| Operating times                                   |         |          |             |
| Closing                                           |         | ms       | <15         |
| Opening                                           |         | ms       | <15         |
| Operations                                        |         |          |             |
| Mechanical life                                   |         | cycles   | 10000000    |
| Electrical life AC1                               |         | cycles   | 50000       |
| Coil characteristics                              |         |          |             |
| Average coil consumption AC at 20°C               |         | VA       | 1           |
| Average coil consumption DC at 20°C               |         | W        | 0.4         |
| Operating range                                   |         |          |             |
|                                                   | Closing | % Un     | 75...110    |
|                                                   | Opening | % Un     | 10...30     |
| Maximum cycle frequency                           |         | cycles/h | 3600        |
| Mechanical features                               |         |          |             |
| Max socket terminal tightening torque             |         | Nm       | 0.6         |
| Socket screw tightening tool (cross / flat blade) |         |          | PH1 / 4.5mm |
| Conductor section                                 |         |          |             |
| AWG/Kcmil                                         |         |          |             |
|                                                   | min     |          | 20          |
|                                                   | max     |          | 14          |

IEC

|     |                 |     |
|-----|-----------------|-----|
| min | mm <sup>2</sup> | 0.5 |
| max | mm <sup>2</sup> | 2.5 |

Operating position

|        |     |
|--------|-----|
| normal | Any |
|--------|-----|

Fixing

On 35mm DIN  
rail and with  
screw

## Ambient conditions

Temperature

Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -40 |
| max | °C | +70 |

Storage temperature

|     |    |     |
|-----|----|-----|
| min | °C | -40 |
| max | °C | +85 |

## Other features

Indication

Yes

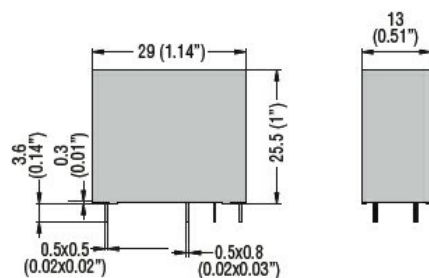
Mechanical contact position indicator

Yes

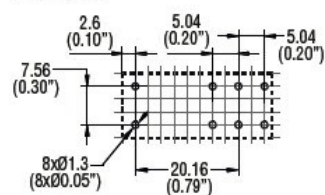
Mechanical test actuator

Yes

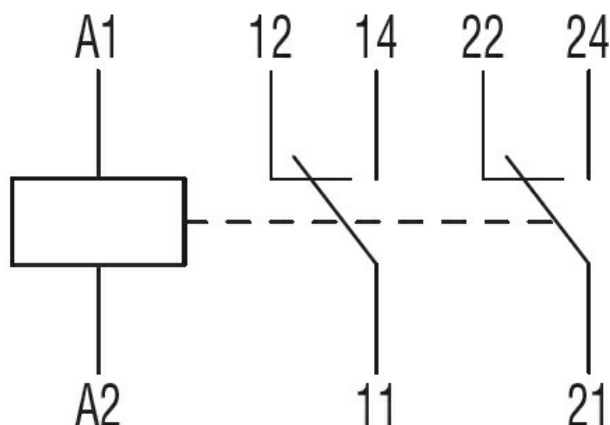
## Dimensions



PCB layout



## Wiring diagrams



## Certifications and compliance

Compliance

IEC/EN 61810

Certificates

CSA

cURus

EAC

VDE

ETIM classification

ETIM 8.0

EC001437 -  
Switching relay