



|   |  |  |                            |          |          |
|---|--|--|----------------------------|----------|----------|
| Product designation                               |  |  | Assembled miniature relays |          |          |
| Product type designation                          |  |  | 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                          | 230VAC   |          |
| Max contrrollable 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     |          |          |
| 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     | 70...110 |
|   |  |  | Opening                    | % Un     | 20...55  |
| 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

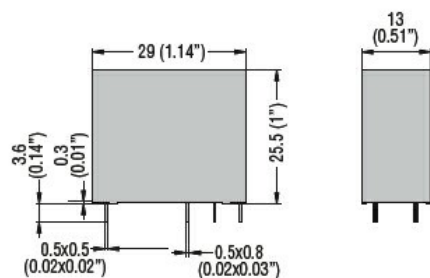
Mechanical contact position indicator

Yes

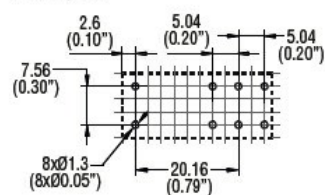
Mechanical test actuator

Yes

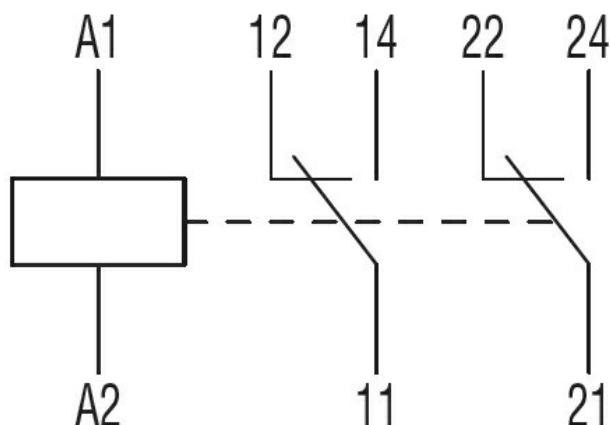
## Dimensions



PCB layout



## Wiring diagrams



## Certifications and compliance

Compliance

IEC/EN 61810

ETIM classification

ETIM 8.0

EC001437 -  
Switching relay