



| Product designation                               |         |            | MINIATURE   |
|---|---------|------------|-------------|
| -   |         |            | RELAYS      |
| Product type designation                          |         |            | HR502C      |
| Contact characteristics                           |         |            | 2.0/0       |
| Contact configuration                             |         | \ <i>\</i> | 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          | 110VAC      |
| 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     | А          | 8           |
|   | 110V    | А          | 0.3         |
|   | 220V    | А          | 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     | 1000000     |
| 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       | 70110       |
|   | Opening | % Un       | 2055        |
| Maximum cycle frequency                           |         | cycles/h   | 3600        |
| Mechanical features                               |         | 0,0100,11  |             |
| 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          |
|   | max     |            | 1-1         |

HR502CA110

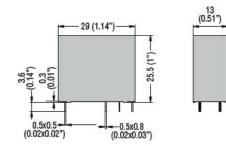
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



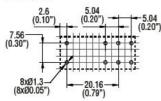
# HR502CA110 MINIATURE RELAY WITH LED STATE INDICATOR AND MECHANICAL ACTUATOR, 110/120VAC, 8A, 2C/O CONTACT. FITTING ON SOCKET HR5XS2...

| IEC   min   mm²   0.5     max   mm²   2.5     Operating position   normal   Any     Fixing   On 35mm<br>rail and wi<br>screw     Ambient conditions   screw     Temperature   min   °C     Operating temperature   min   °C     Storage temperature   Storage temperature |  |
|---|--|
| max   mm²   2.5     Operating position   normal   Any     Fixing   On 35mm<br>rail and wi<br>screw     Ambient conditions   rail and wi<br>screw     Temperature   Operating temperature     Min   °C   -40<br>max     min   °C   +70                                     |  |
| Operating position      normal   Any     normal   Any     On 35mm   rail and wi     screw   screw     Ambient conditions   screw     Temperature   min °C -40     max °C +70   rol  |  |
| normal Any   Fixing On 35mm<br>rail and wi<br>screw   Ambient conditions rail and wi<br>screw   Temperature min °C -40<br>max °C +70  |  |
| Fixing On 35mm<br>rail and wi<br>screw<br>Ambient conditions<br>Temperature<br>Operating temperature<br>  |  |
| Fixing rail and wi<br>screw<br>Ambient conditions<br>Temperature<br>Operating temperature<br>   |  |
| Temperature<br>Operating temperature<br>max °C +70  |  |
| Operating temperature<br>min °C -40<br>max °C +70   |  |
| min °C -40<br>max °C +70  |  |
| max °C +70  |  |
|   |  |
| Storage temperature   |  |
| etologo tompolataro   |  |
| min °C -40  |  |
| max °C +85  |  |
| Other features  |  |
| Indication Yes  |  |
| Mechanical contact position indicator Yes   |  |
| Mechanical test actuator Yes  |  |

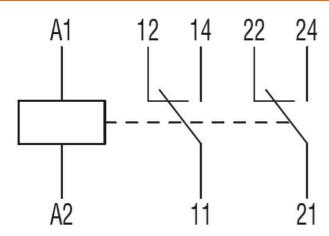
### <u>Dimensions [</u>mm (in)]



PCB layout



### Wiring diagrams



## Certifications and compliance Compliance

HR502CA110

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|                     | IEC/EN 61810 |          |
|---------------------|--------------|----------|
| Certificates        |              |          |
|                     | CSA          |          |
|                     | cURus        |          |
|                     | EAC          |          |
|                     | VDE          |          |
| ETIM classification |              |          |
|                     |              | EC001427 |

ETIM 8.0

EC001437 -Switching relay