



## Main

|                                              |                                           |
|----------------------------------------------|-------------------------------------------|
| Range of product                             | Zelio Relay                               |
| Product or component type                    | Plug-in relay<br>Timing relay             |
| Device short name                            | RHR                                       |
| Contacts type and composition                | 4 C/O                                     |
| Contacts operation                           | Standard                                  |
| Control circuit voltage                      | 110 V AC/DC, 50/60 Hz                     |
| Time delay type                              | Off-delay                                 |
| Time delay range                             | 1.25...24 s<br>12.5...240 s<br>2...40 min |
| [Ithe] conventional enclosed thermal current | 5 A at $\leq 40\text{ }^{\circ}\text{C}$  |
| Status LED                                   | With                                      |
| Control type                                 | Selector switch                           |
| Coil interference suppression                | With                                      |

## Complementary

|                                |                                                                                                                                                                                                  |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage  | 250 V                                                                                                                                                                                            |
| Operating position             | Any position                                                                                                                                                                                     |
| Minimum switching capacity     | 150 mVA at 10 mA / 1 V                                                                                                                                                                           |
| Contact bounce time            | $\leq 10\text{ ms}$                                                                                                                                                                              |
| Voltage drop                   | $\leq 100\text{ V}$ for 3 A at 24 V                                                                                                                                                              |
| Average resistance             | 30 mOhm at $20\text{ }^{\circ}\text{C}$                                                                                                                                                          |
| Switching time                 | 1.2...4 ms DC for de-energisation/energisation<br>0.5...6 ms AC for de-energisation/energisation<br>1...4 ms DC for energisation/de-energisation<br>1...3 ms AC for energisation/de-energisation |
| Average consumption in W       | 2.5 W at $20\text{ }^{\circ}\text{C}$                                                                                                                                                            |
| Average consumption in VA      | 2.9 at $20\text{ }^{\circ}\text{C}$                                                                                                                                                              |
| Control circuit voltage limits | 0.8...1.1 $U_c$ conforming to IEC 60255                                                                                                                                                          |
| Mechanical durability          | 20000000 cycles                                                                                                                                                                                  |
| Repeat accuracy                | $\pm 1\%$                                                                                                                                                                                        |
| Setting accuracy of time delay | $\pm 15\%$ of full scale                                                                                                                                                                         |
| Reset time                     | $\leq 100\text{ ms}$                                                                                                                                                                             |
| CAD overall width              | 33 mm                                                                                                                                                                                            |
| CAD overall height             | 43 mm                                                                                                                                                                                            |
| CAD overall depth              | 108 mm                                                                                                                                                                                           |
| Terminals description ISO n°1  | (11-12-14)OC<br>(21-22-24)OC<br>(31-32-34)OC<br>(41-42-44)OC<br>(B1-A2-B2)CO                                                                                                                     |
| Product weight                 | 0.13 kg                                                                                                                                                                                          |

## Environment

|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Standards                             | IEC 60255<br>NF C 45-250<br>VDE 0435                                                                 |
| Product certifications                | ASE<br>BV<br>CSA<br>EDF<br>USSR                                                                      |
| Protective treatment                  | TC                                                                                                   |
| Dielectric strength                   | 2500 V                                                                                               |
| Ambient air temperature for operation | -5...40 °C conforming to IEC 60255                                                                   |
| Ambient air temperature for storage   | -40...70 °C                                                                                          |
| Vibration resistance                  | 6 gn (f = 10...55 Hz) conforming to NF C 20-616<br>6 gn (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| Shock resistance                      | 50 gn for 11 ms conforming to NF C 20-608                                                            |
| Immunity to microbreaks               | <= 2 ms after time delay<br><= 10 ms during time delay                                               |