



## Main

|                                             |                                          |
|---------------------------------------------|------------------------------------------|
| Range of product                            | Zelio Relay                              |
| Product or component type                   | Plug-in relay                            |
| Device short name                           | RHN                                      |
| Contacts type and composition               | 4 C/O                                    |
| Contacts operation                          | Instantaneous<br>Standard                |
| Control circuit voltage                     | 110 V DC                                 |
| [the] conventional enclosed thermal current | 5 A at $\leq 40\text{ }^{\circ}\text{C}$ |
| Status LED                                  | Without                                  |
| Control type                                | Manual control                           |
| Coil interference suppression               | Without                                  |

## Complementary

|                                |                                                                                                                                                                                                         |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage  | 250 V                                                                                                                                                                                                   |
| Operating position             | Any position                                                                                                                                                                                            |
| Minimum switching capacity     | 150 mVA / 1 V<br>150 mVA at 10 mA                                                                                                                                                                       |
| 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 for de-energisation/energisation<br>1...4 ms for energisation/de-energisation                                                                                                                |
| Average consumption in W       | 1.6 W at $20\text{ }^{\circ}\text{C}$                                                                                                                                                                   |
| Control circuit voltage limits | 0.8...1.1 $U_c$ conforming to IEC 60255                                                                                                                                                                 |
| Drop-out voltage threshold     | 0.1...0.3 $U_c$                                                                                                                                                                                         |
| Time constant                  | 15 ms for closed contact(s)<br>12 ms for open contact(s)                                                                                                                                                |
| Mechanical durability          | 20000000 cycles                                                                                                                                                                                         |
| Operating rate                 | $\leq 6\text{ cyc/mn}$                                                                                                                                                                                  |
| Operating time                 | 2...7 ms between de-energisation of coil and closing of NC contact at $20\text{ }^{\circ}\text{C}$<br>10...20 ms between energisation of coil and closing of NO contact at $20\text{ }^{\circ}\text{C}$ |
| CAD overall width              | 33 mm                                                                                                                                                                                                   |
| CAD overall height             | 43 mm                                                                                                                                                                                                   |
| CAD overall depth              | 54 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>(A1-A2)CO                                                                                                                               |
| Product weight                 | 0.09 kg                                                                                                                                                                                                 |

## Environment

|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Standards                             | BS 4794<br>IEC 60255<br>NF C 45-250<br>VDE 0435                                                      |
| Product certifications                | ASE<br>BV<br>CSA<br>EDF<br>UR<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                                                            |