



Main

|                                              |                           |
|----------------------------------------------|---------------------------|
| Range of product                             | Zelio Relay               |
| Product or component type                    | Plug-in relay             |
| Device short name                            | RHN                       |
| Contacts type and composition                | 4 C/O                     |
| Contact operation                            | Instantaneous<br>Standard |
| [Uc] control circuit voltage                 | 24 V AC, 60 Hz            |
| [Ithe] conventional enclosed thermal current | 5 A at <= 40 °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 at 10 mA<br>150 mVA / 1 V                                                                                                                                                                                                                       |
| Contact bounce time            | <= 10 ms                                                                                                                                                                                                                                                |
| Voltage drop                   | <= 100 V for 3 A at 24 V                                                                                                                                                                                                                                |
| Average resistance             | 30 mOhm at 20 °C                                                                                                                                                                                                                                        |
| Average coil consumption in VA | 2.5 (holding) at 20 °C<br>4.5 (inrush) at 20 °C                                                                                                                                                                                                         |
| Control circuit voltage limits | 0.8...1.1 Uc conforming to IEC 60255                                                                                                                                                                                                                    |
| Drop-out voltage threshold     | 0.15...0.5 Uc                                                                                                                                                                                                                                           |
| Cos phi                        | 0.6 (inrush)<br>0.7 (holding)                                                                                                                                                                                                                           |
| Mechanical durability          | 20000000 cycles                                                                                                                                                                                                                                         |
| Operating rate                 | <= 6 cyc/mn                                                                                                                                                                                                                                             |
| Operating time                 | 2...15 ms between energisation of coil and closing of NO contact at 20 °C<br>1.2...12 ms between de-energisation of coil and closing of NC contact at 20 °C<br>1...3 ms for energisation/de-energisation<br>0.5...6 ms for de-energisation/energisation |
| 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                         |

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|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
|                                       | 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 IEC 60068-2-6<br>6 gn (f = 10...55 Hz) conforming to NF C 20-616 |
| shock resistance                      | 50 gn for 11 ms conforming to NF C 20-608                                                            |

#### Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|