

## RHN412F

plug-in relay - Zelio RHN - instantaneous - 4 C/O -  
110 V DC - 5 A



### 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                 | 110 V DC                  |
| [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       | 1.6 W at 20 °C  |
| Control circuit voltage limits | 0.8...1.1 U <sub>c</sub> conforming to IEC 60255  |
| Drop-out voltage threshold     | 0.1...0.3 U <sub>c</sub>  |
| Time constant                  | 12 ms for open contact(s)<br>15 ms for closed contact(s)  |
| Mechanical durability          | 20000000 cycles   |
| Operating rate                 | <= 6 cyc/mn   |
| Operating time                 | 10...20 ms between energisation of coil and closing of NO contact at 20 °C<br>2...7 ms between de-energisation of coil and closing of NC contact at 20 °C<br>1...4 ms for energisation/de-energisation<br>1.2...4 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<br>UR                   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                                       |  |
|---------------------------------------|--|
|                                       | 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 |
|-----------------|-----------|