

# Product data sheet

Specifications



## Plug in relay, Zelio Relay with suppressor, RHN, instantaneous, 4 C/O, 125 V DC, 1 A

RHN422GA76

⚠ Discontinued on: May 18, 2022

⚠ End-of-service on: Dec 31, 2022

⚠ Discontinued

### Main

|                                              |                            |
|----------------------------------------------|----------------------------|
| Range of product                             | Harmony Relay              |
| Product or component type                    | Plug-in relay              |
| Device short name                            | RHN                        |
| Contacts type and composition                | 4 C/O                      |
| Contact operation                            | Low level<br>Instantaneous |
| [Uc] control circuit voltage                 | 125 V DC                   |
| [Ithe] conventional enclosed thermal current | 1 A 40 °C                  |
| status LED                                   | Without                    |
| Control type                                 | Manual control             |
| Coil interference suppression                | With                       |

### Complementary

|                                |                                                                                                                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [UI] rated insulation voltage  | 250 V                                                                                                                                                                                                                                                 |
| Test levels                    | Level A group mounting                                                                                                                                                                                                                                |
| Operating position             | Any position                                                                                                                                                                                                                                          |
| Minimum switching capacity     | 50 mVA at 1 mA<br>50 mVA, 1 V                                                                                                                                                                                                                         |
| Contact bounce time            | <= 10 ms                                                                                                                                                                                                                                              |
| Maximum 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 Uc conforming to IEC 60255                                                                                                                                                                                                                  |
| Drop-out voltage threshold     | 0.1...0.3 Uc                                                                                                                                                                                                                                          |
| Time constant                  | 12 ms for open contact(s)<br>15 ms for closed contact(s)                                                                                                                                                                                              |
| Mechanical durability          | 20000000 cycles                                                                                                                                                                                                                                       |
| maximum operating rate         | 6 cyc/mn                                                                                                                                                                                                                                              |
| Operating time                 | 1...4 ms for energisation/de-energisation<br>1.2...4 ms for de-energisation/energisation<br>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 |
| CAD overall width              | 33 mm                                                                                                                                                                                                                                                 |

Disclaimer: 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

|                               |                                                                           |
|-------------------------------|---------------------------------------------------------------------------|
| CAD overall height            | 43 mm                                                                     |
| CAD overall depth             | 54 mm                                                                     |
| Terminals description ISO n°1 | (A1-A2)CO<br>(41-42-44)OC<br>(21-22-24)OC<br>(31-32-34)OC<br>(11-12-14)OC |
| Net weight                    | 0.09 kg                                                                   |
| Compatibility code            | RHN                                                                       |

## Environment

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

## Packing Units

|                              |        |
|------------------------------|--------|
| Unit Type of Package 1       | PCE    |
| Number of Units in Package 1 | 1      |
| Package 1 Height             | 5.5 cm |
| Package 1 Width              | 5 cm   |
| Package 1 Length             | 7.8 cm |
| Package 1 Weight             | 92 g   |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained](#) >

[How we assess product sustainability](#) >

### Use Better

| Materials and Substances |                           |
|--------------------------|---------------------------|
| EU RoHS Directive        | <a href="#">Compliant</a> |

### Use Longer

| Lifetime extension |    |
|--------------------|----|
| Repair             | No |