

Product datasheet

Specifications



plug-in relay with suppressor - Harmony RHN - instantaneous - 4 C/O - 72 V DC - 5A

RHN412ENA76

⚠ Discontinued on: 1 Jul 2020

⚠ 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 | Standard Instantaneous |
| [Uc] control circuit voltage | 72 V DC |
| [Ithe] conventional enclosed thermal current | 5 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 | 150 mVA at 10 mA 150 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 U _c conforming to IEC 60255 |
| Drop-out voltage threshold | 0.1...0.3 U _c |
| Time constant | 12 ms for open contact(s) 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 1.2...4 ms for de-energisation/energisation 10...20 ms between energisation of coil and closing of NO contact at 20 °C 2...7 ms between de-energisation of coil and closing of NC contact at 20 °C |
| CAD overall width | 33 mm |

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

Environment

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

[Compliant](#)

Use Longer



Lifetime extension

Repair

No