

Product data sheet

Specifications



Plug in relay, Zelio Relay, RHN, instantaneous, 4 C/O, 42 V DC, 5 A

RHN412D

 **Discontinued on:** Jan 18, 2021

 **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	Instantaneous Standard
[Uc] Control Circuit Voltage	42 V DC
[Ithe] Conventional Enclosed Thermal Current	5 A 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 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 Uc conforming to IEC 60255
Drop-Out Voltage Threshold	0.1...0.3 Uc
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

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 Depth	54 mm
Terminals Description Iso N°1	(41-42-44)OC (11-12-14)OC (31-32-34)OC (21-22-24)OC (A1-A2)CO
Net Weight	0.09 kg
Compatibility Code	RHN

Environment

Standards	IEC 60255 NF C 45-250 VDE 0435 BS 4794
Product Certifications	EDF USSR UR ASE BV 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	7.8 cm
Package 1 Weight	93 g

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product's sustainability >](#)



Transparency

Well-being performance

✓ Toxic Heavy Metal Free

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
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China Rohs Regulation	China RoHS declaration
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Environmental Disclosure	Product Environmental Profile
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Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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Circularity Profile	End of Life Information
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California Proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
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