

Product data sheet

Specifications



Plug in relay, Harmony Relay, RHN, instantaneous, 4 C/O, 48 V DC, 5 A

RHN412E

⚠ Discontinued on: Oct 8, 2021

⚠ End-of-service on: Dec 31, 2023

⚠ Discontinued

Product availability: Non-Stock - Not normally stocked in distribution facility

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	48 V DC
[Ithe] Conventional Enclosed Thermal Current	5 A 104 °F (40 °C)
Status Led	Without
Control Type	Manual control
Coil Interference Suppression	Without

Complementary

[Ui] Rated Insulation Voltage	250 V
Test Levels	Level A group mounting
Operating Position	Any position
Minimum Switching Capacity	150 mVA 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 68 °F (20 °C)
Average Coil Consumption	1.6 W 68 °F (20 °C)
Control Circuit Voltage Limits	0.8...1.1 Uc IEC 60255
Drop-Out Voltage Threshold	0.1...0.3 Uc
Time Constant	12 ms open 15 ms closed
Mechanical Durability	20000000 cycles
Maximum Operating Rate	6 cyc/mn
Operating Time	1...4 ms energisation/de-energisation 1.2...4 ms de-energisation/energisation 10...20 ms between energisation of coil and closing of NO contact 68 °F (20 °C) 2...7 ms between de-energisation of coil and closing of NC contact 68 °F (20 °C)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 Width	1.30 in (33 mm)
Cad Overall Height	1.69 in (43 mm)
Cad Overall Depth	2.13 in (54 mm)
Terminals Description Iso N°1	(41-42-44)OC (21-22-24)OC (11-12-14)OC (31-32-34)OC (A1-A2)CO
Net Weight	0.20 lb(US) (0.09 kg)
Compatibility Code	RHN

Environment

Standards	BS 4794 NF C 45-250 IEC 60255 VDE 0435
Product Certifications	ASE EDF BV UR USSR CSA
Protective Treatment	TC
Dielectric Strength	2500 V
Ambient Air Temperature For Operation	23...104 °F (-5...40 °C) IEC 60255
Ambient Air Temperature For Storage	-40...158 °F (-40...70 °C)
Vibration Resistance	6 gn 10...55 Hz)IEC 60068-2-6 6 gn 10...55 Hz)NF C 20-616
Shock Resistance	50 gn 11 ms NF C 20-608

Ordering and shipping details

Category	US10CP218073
Discount Schedule	0CP2
Gtin	3389110162929
Returnability	No
Country Of Origin	FR

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.17 in (5.5 cm)
Package 1 Width	1.97 in (5 cm)
Package 1 Length	3.07 in (7.8 cm)
Package 1 Weight	3.35 oz (95 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.

[Learn more about Green Premium >](#)

[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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