

Product data sheet

Specifications



Plug in relay, Zelio Relay, RHN, instantaneous, 4 C/O, 30 V DC, 5 A

RHN412BF

⚠ Discontinued on: Oct 20, 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	Instantaneous Standard
[Uc] Control Circuit Voltage	30 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
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 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

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	(31-32-34)OC (11-12-14)OC (21-22-24)OC (41-42-44)OC (A1-A2)CO
Net Weight	0.09 kg
Compatibility Code	RHN

Environment

Standards	IEC 60255 VDE 0435 BS 4794 NF C 45-250
Product Certifications	USSR BV UR ASE CSA 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 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	7.7 cm
Package 1 Weight	92 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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