

Product data sheet

Specifications



Plug in relay, Zelio Relay, RHN, instantaneous, 4 C/O, 240 V AC 50 Hz, 1 A

RHN421U

⚠ Discontinued on: Oct 21, 2020

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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 Instantaneous
[Uc] control circuit voltage	240 V AC 50 Hz
[Ithe] conventional enclosed thermal current	1 A 104 °F (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	50 mVA 1 mA 50 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 in VA	2.5 holding)68 °F (20 °C) 4.5 inrush)68 °F (20 °C)
Control circuit voltage limits	0.8...1.1 Uc IEC 60255
Drop-out voltage threshold	0.15...0.5 Uc
Cos phi	0.6 inrush) 0.7 holding)
Mechanical durability	20000000 cycles
maximum operating rate	6 cyc/mn
Operating time	2...15 ms between energisation of coil and closing of NO contact 68 °F (20 °C) 1.2...12 ms between de-energisation of coil and closing of NC contact 68 °F (20 °C) 1...3 ms energisation/de-energisation 0.5...6 ms de-energisation/energisation
CAD overall width	1.3 in (33 mm)
CAD overall height	1.7 in (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	2.1 in (54 mm)
Terminals description ISO n°1	(41-42-44)OC (21-22-24)OC (11-12-14)OC (A1-A2)CO (31-32-34)OC
Net weight	0.20 lb(US) (0.09 kg)
Compatibility code	RHN

Environment

Standards	IEC 60255 BS 4794 NF C 45-250 VDE 0435
Product certifications	UR EDF USSR CSA BV ASE
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 (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 11 ms NF C 20-608

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.2 in (5.5 cm)
Package 1 Width	3.0 in (7.5 cm)
Package 1 Length	2.0 in (5 cm)
Package 1 Weight	3.4 oz (96 g)

Contractual warranty

Warranty (in months)	18
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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.

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Use Better

Materials and Substances	
EU RoHS Directive	Compliant

Use Longer

Lifetime extension	
Repair	No