

Product datasheet

Specifications



Plug in relay, HARMONY Relay, RHN, instantaneous, 4 C/O, 110 V AC 50 Hz, 1 A

RHN421F

⚠ Discontinued on: 07 Oct 2025

⚠ To be end-of-service on: 01 Oct 2050

⚠ Discontinued

Price: 2,555.94 ZAR

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	110 V AC 50 Hz
[Ithe] conventional enclosed thermal current	1 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	50 mVA at 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 at 20 °C
Average coil consumption in VA	2.5 (holding) at 20 °C 4.5 (inrush) at 20 °C
Control circuit voltage limits	0.8...1.1 Uc conforming to 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

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

Operating time	2...15 ms between energisation of coil and closing of NO contact at 20 °C 1.2...12 ms between de-energisation of coil and closing of NC contact at 20 °C 1...3 ms for energisation/de-energisation 0.5...6 ms for de-energisation/energisation
CAD overall width	33 mm
CAD overall height	43 mm
CAD overall depth	54 mm
Terminals description ISO n°1	(41-42-44)OC (A1-A2)CO (21-22-24)OC (11-12-14)OC (31-32-34)OC
Net weight	0.09 kg
Compatibility code	RHN

Environment

Standards	IEC 60255 VDE 0435 BS 4794 NF C 45-250
Product certifications	ASE UR EDF USSR CSA BV
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 cm
Package 1 Width	5.5 cm
Package 1 Length	7.5 cm
Package 1 Weight	99 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.

[Environmental Data explained](#) >

[How we assess product sustainability](#) >

Use Better

Materials and Substances	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)

Use Longer

Lifetime extension	
Repair	No