

Product data sheet

Specifications



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

RHN412D

⚠ Discontinued on: Jan 18, 2021

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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	Instantaneous Standard
[Uc] control circuit voltage	42 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
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)
CAD overall width	1.3 in (33 mm)
CAD overall height	1.7 in (43 mm)

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 depth	2.1 in (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	0.20 lb(US) (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	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

Ordering and shipping details

Category	18403-WORLD SERVICE PARTS(ENVELOPES)
Discount Schedule	CP10
GTIN	3389110220674
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.2 in (5.5 cm)
Package 1 Width	2.0 in (5 cm)
Package 1 Length	3.07 in (7.8 cm)
Package weight(Lbs)	3.3 oz (93 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)
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

Use Longer

Lifetime extension	
Repair	No