

Product data sheet

Specifications



Plug in relay, Harmony Relay, RHN, instantaneous, 4 C/O, 240 V DC, 5 A

RHN412U

⚠ 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	240 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 mA 10 mA 150 mA, 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.

CAD overall depth	2.1 in (54 mm)
Terminals description ISO n°1	(31-32-34)OC (21-22-24)OC (11-12-14)OC (41-42-44)OC (A1-A2)CO
Net Weight	0.20 lb(US) (0.09 kg)
Compatibility code	RHN

Environment

Standards	BS 4794 IEC 60255 NF C 45-250 VDE 0435
Product Certifications	CSA EDF USSR UR 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

Ordering and shipping details

Category	18403-WORLD SERVICE PARTS(ENVELOPES)
Discount Schedule	CP10
GTIN	3389110268027
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