

# Product data sheet

Specifications



## plug-in relay - Harmony RHN - instantaneous - 4 C/O - 24 V DC - 5 A

RHN412B

! Discontinued on: 01 October 2021

! To be end-of-service on: 31 December 2023

! 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	24 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	2000000 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
CAD overall height	43 mm
CAD overall depth	54 mm
Terminals description ISO n°1	(11-12-14)OC (21-22-24)OC (41-42-44)OC (31-32-34)OC (A1-A2)CO
Net weight	0.09 kg
Compatibility code	RHN

## Environment

Standards	NF C 45-250 VDE 0435 IEC 60255 BS 4794
Product certifications	USSR BV CSA EDF ASE UR
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	5.2 cm
Package 1 Width	5.5 cm
Package 1 Length	7.8 cm
Package 1 Weight	94 g

## Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

**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](http://www.P65Warnings.ca.gov)

**Contractual warranty**

**Warranty** 18 months

**Recommended replacement(s)**

RHN412B is replaced by the following product range:



**Harmony Electromechanical Relays**

Interface, miniature, and power electromechanical relays (formerly known as Zelio Electromechanical Relays)

Products: 547