

# Product data sheet

## Characteristics

# RHK412E

Plug in relay, Zelio Relay, RHK, latching, 4 C/O, 48 V DC, 5 A



### Main

Range of product	Harmony Relay
Product or component type	Plug-in relay
Device short name	RHK
Contacts type and composition	4 C/O
Contact operation	Standard Latching
[Uc] control circuit voltage	48 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 on coil 1 2.9 W at 20 °C on coil 2
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	10000000 cycles
Maximum operating rate	2 cyc/mn
Operating time	10...14 ms between energisation of trip coil and closing of NC contact at 20 °C 12...22 ms between energisation of coil and closing of NO contact at 20 °C 1...4 ms for energisation/de-energisation 1.2...4 ms for de-energisation/energisation
Minimum pulse duration	50 ms
CAD overall width	33 mm
CAD overall height	43 mm
CAD overall depth	90 mm
Terminals description ISO n°1	(41-42-44)OC (B1-B2)CO (A1-A2)CO (21-22-24)OC (11-12-14)OC (31-32-34)OC
Net weight	0.14 kg
Compatibility code	RHK

## Environment

Standards	IEC 255 VDE 0435 BS 4794 NF C 45-250
Product certifications	ASE USSR EDF UR 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	30 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 Weight	151 g
Package 1 Height	5.1 cm
Package 1 width	5.3 cm
Package 1 Length	11.5 cm
Unit Type of Package 2	S02
Number of Units in Package 2	28
Package 2 Weight	4.585 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

## 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
RoHS exemption information	 Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</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

## Contractual warranty

Warranty	18 months
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