



### Main

|                                              |                                 |
|----------------------------------------------|---------------------------------|
| Range of product                             | Harmony Relay                   |
| Series name                                  | Miniature                       |
| Product or component type                    | Plug-in relay                   |
| Device short name                            | RXM                             |
| Contacts type and composition                | 2 C/O                           |
| [Uc] control circuit voltage                 | 230 V AC 50/60 Hz               |
| [Ithe] conventional enclosed thermal current | 12 A -40...131 °F (-40...55 °C) |
| Status LED                                   | Without                         |
| Control type                                 | Lockable test button            |
| Utilisation coefficient                      | 20 %                            |

### Complementary

|                                        |                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Shape of pin                           | Flat                                                                                                                                  |
| [Ui] rated insulation voltage          | 250 V IEC<br>300 V CSA<br>300 V UL                                                                                                    |
| [Uimp] rated impulse withstand voltage | 4 kV 1.2/50 µs                                                                                                                        |
| Contacts material                      | AgNi                                                                                                                                  |
| [Ie] rated operational current         | 12 A 28 V DC) NO IEC<br>12 A 250 V AC) NO IEC<br>6 A 28 V DC) NC IEC<br>6 A 250 V AC) NC IEC<br>12 A 28 V DC) UL<br>12 A 277 V AC) UL |
| Maximum switching voltage              | 250 V IEC                                                                                                                             |
| Resistive rated load                   | 12 A 250 V AC<br>12 A 28 V DC                                                                                                         |
| Maximum switching capacity             | 3000 VA/336 W                                                                                                                         |
| Minimum switching capacity             | 170 mW 10 mA, 17 V                                                                                                                    |
| Operating rate                         | <= 1200 cycles/hour under load<br><= 18000 cycles/hour no-load                                                                        |
| Mechanical durability                  | 10000000 cycles                                                                                                                       |
| Electrical durability                  | 100000 cycles resistive                                                                                                               |
| Average coil consumption in VA         | 1.2 60 Hz                                                                                                                             |
| Average consumption                    | 1.2 VA 60 Hz                                                                                                                          |
| Drop-out voltage threshold             | >= 0.15 Uc                                                                                                                            |
| Operate time                           | 20 ms                                                                                                                                 |
| Release time                           | 20 ms                                                                                                                                 |
| Average coil resistance                | 15000 Ohm 20 °C +/- 15 %                                                                                                              |
| Rated operational voltage limits       | 184...253 V AC                                                                                                                        |
| Safety reliability data                | B10d = 100000                                                                                                                         |
| Protection category                    | RT I                                                                                                                                  |
| Test levels                            | Level A group mounting                                                                                                                |
| Operating position                     | Any position                                                                                                                          |
| Net Weight                             | 0.08 lb(US) (0.037 kg)                                                                                                                |
| Device presentation                    | Complete product                                                                                                                      |

## Environment

|                                       |                                                                                                                 |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Dielectric strength                   | 1300 V AC between contacts micro disconnection<br>2000 V AC between coil and contact<br>2000 V AC between poles |
| Product certifications                | CSA<br>UL<br>RoHS<br>GOST<br>Lloyd's<br>CE                                                                      |
| Standards                             | EN/IEC 61810-1<br>UL 508<br>CSA C22.2 No 14                                                                     |
| Ambient air temperature for storage   | -40...185 °F (-40...85 °C)                                                                                      |
| Ambient air temperature for operation | -40...131 °F (-40...55 °C)                                                                                      |
| Vibration resistance                  | 3 gn +/- 1 mm 10...150 Hz)5 cycles in operation<br>5 gn +/- 1 mm 10...150 Hz)5 cycles not operating             |
| IP degree of protection               | IP40 EN/IEC 60529                                                                                               |
| Shock resistance                      | 10 gn in operation<br>30 gn not operating                                                                       |
| Pollution degree                      | 3                                                                                                               |

## Ordering and shipping details

|                       |                               |
|-----------------------|-------------------------------|
| Category              | 21127 - ZELIO ICE CUBE RELAYS |
| Discount Schedule     | CP2                           |
| GTIN                  | 00785901477839                |
| Nbr. of units in pkg. | 10                            |
| Package weight(Lbs)   | 0.08 lb(US) (0.04 kg)         |
| Returnability         | Yes                           |
| Country of origin     | FR                            |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Height | 0.410 dm |
| Package 1 width  | 0.210 dm |
| Package 1 Length | 0.280 dm |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                                                                                                  |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                                                                                                      |
| REACH free of SVHC         | Yes                                                                                                                                                                                                                                                                                                                                                                    |
| 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 | <a href="#">Yes</a>                                                                                                                                                                                                                                                                                                                                                    |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                                                                                                                                                                                                                                                                 |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                                                                                          |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.                                                                                                                                                                                                                                           |

## Contractual warranty

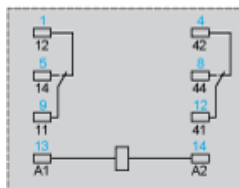
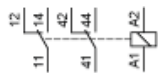
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

The technical drawing shows two views of the power supply unit:

- Front View (Left):** Shows the main body with three vertical slots. Dimensions include a total width of 7.7 mm (0.30 in.), a central slot width of 4.0 mm (1.57 in.), and a mounting bracket width of 6.3 mm (0.24 in.). The mounting holes are spaced at 1.8 mm (0.07 in.) from the center.
- Side View (Right):** Shows the profile of the unit with a height of 27 mm (1.06 in.) and a base width of 21 mm (0.82 in.). It also indicates a depth of 6.3 mm (0.24 in.) for the mounting area.

Technical drawing of a rectangular plate. The drawing shows a rectangle with two vertical columns of three holes each. The distance between the centerlines of the two columns is 13.2. The distance from the centerline of each column to the nearest side edge is 2.5. The total width of the plate is 0.51. The drawing includes a scale bar at the top left indicating 1 mm = 1 in.

## Wiring Diagram



Symbols shown in blue correspond to Nema marking.

## Electrical Durability of Contacts

Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



- X Switching capacity (kVA)  
Y Durability (Number of operating cycles)  
A RXM2AB...  
B RXM3AB...  
C RXM4AB...  
D RXM4GB...

Reduction coefficient for inductive AC load (depending on power factor  $\cos \phi$ )



- Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



- X Voltage DC  
Y Current DC  
A RXM2AB...  
B RXM3AB...  
C RXM4AB...  
D RXM4GB...

Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.