# Product datasheet

Specifications




## miniature plug-in relay - Harmony RXM2L - 4 C/O - 12 V DC - 3 A - without LED

Local distributor code:

403013212 RXM4LB1JD

**EAN Code: 3389119215206**

## Main

| | |
|---|---|
| **Range of product** | Harmony Electromechanical Relays |
| **Series name** | RXM series |
| **Product or component type** | Plug-in relay |
| **Relay type** | Miniature relay |
| **Contacts type and composition** | 4 C/O |
| **[Uc] control circuit voltage** | 12 V DC |
| **[Ithe] conventional enclosed thermal current** | 3 A at -40…55 °C |

## Complementary

| | |
|---|---|
| **status LED** | Without |
| **Control type** | Without lockable test button |
| **[Ie] rated operational current** | 1.5 A at 28 V (DC) NC conforming to IEC<br>1.5 A at 250 V (AC) NC conforming to IEC<br>3 A at 28 V (DC) NO conforming to IEC<br>3 A at 250 V (AC) NO conforming to IEC<br>3 A at 24 V (DC) NO conforming to IEC<br>3 A at 220 V (AC) NO conforming to IEC<br>3 A at 28 V (DC) conforming to UL<br>3 A at 250 V (AC) conforming to UL |
| **Minimum switching capacity** | 25 mW subject to switching frequency, environment or expected reliability level etc |
| **Rated operational voltage limits** | 9.6...13.2 V DC |
| **[Ui] rated insulation voltage** | 250 V conforming to IEC |
| **Maximum switching voltage** | 250 V AC<br>28 V DC |
| **Drop-out voltage threshold** | >= 0.1 Uc DC |
| **Load current** | 3 A at 250 V AC<br>3 A at 28 V DC |
| **Maximum switching capacity** | 750 VA AC<br>84 W DC |
| **Compatibility code** | RXM |
| **Minimum switching current** | 5 mA subject to switching frequency, environment or expected reliability level etc |
| **Minimum switching voltage** | 5 V subject to switching frequency, environment or expected reliability level etc |
| **Average resistance** | 160 Ohm at 23 °C +/- 10 % |
| **Average coil consumption** | 0.9 W, DC |
| **Mechanical durability** | 20000000 cycles |
| **Electrical durability** | 200000 cycles resistive load 23 °C<br>100000 cycles resistive load at 55 °C |

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

| | |
|---|---|
| **Safety reliability data** | B10d = 100000 |
| **Operating rate** | <= 1200 cycles/hour under load<br><= 18000 cycles/hour no-load |
| **Utilisation coefficient** | 20 % |
| **Dielectric strength** | 2000 V AC between coil and contact with basic insulation<br>2000 V AC between poles with basic insulation<br>1000 V AC between contacts with micro disconnection |
| **Protection category** | RT I |
| **Pollution degree** | 2 |
| **Operating position** | Any position |
| **Test levels** | Level A group mounting |
| **Sale per indivisible quantity** | 10 |
| **Contacts material** | Silver alloy (Ag/Ni) |
| **Shape of pin** | Flat (faston type) |
| **Net weight** | 0.034 kg |

## Environment

| | |
|---|---|
| **Standards** | IEC 61810-1 (iss. 2)<br>CE<br>UL 508 |
| **Ambient air temperature for storage** | -40…85 °C |
| **Vibration resistance** | 3 gn, amplitude = +/- 1 mm (f = 10…50 Hz)operating conforming to IEC 60068-2-6<br>6 gn, amplitude = +/- 1 mm (f = 10…50 Hz)not operating conforming to IEC 60068-2-6 |
| **Shock resistance** | 30 gn for not operating conforming to IEC 60068-2-27<br>10 gn for in operation conforming to IEC 60068-2-27 |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 2.700 cm |
| **Package 1 Width** | 2.100 cm |
| **Package 1 Length** | 4.500 cm |
| **Package 1 Weight** | 34.000 g |
| **Unit Type of Package 2** | BB1 |
| **Number of Units in Package 2** | 10 |
| **Package 2 Height** | 3.000 cm |
| **Package 2 Width** | 10.200 cm |
| **Package 2 Length** | 12.500 cm |
| **Package 2 Weight** | 371.000 g |
| **Unit Type of Package 3** | S02 |
| **Number of Units in Package 3** | 270 |
| **Package 3 Height** | 15 cm |
| **Package 3 Width** | 30 cm |
| **Package 3 Length** | 40 cm |

| | |
|---|---|
| **Package 3 Weight** | 10.316 kg |

## Logistical informations

| | |
|---|---|
| **Country of origin** | CN |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## 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 >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **13 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **0.4 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **12 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **0 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| EU RoHS Directive | **Compliant** |
| REACh Regulation | **Free of Substances of Very High Concern above the threshold** |

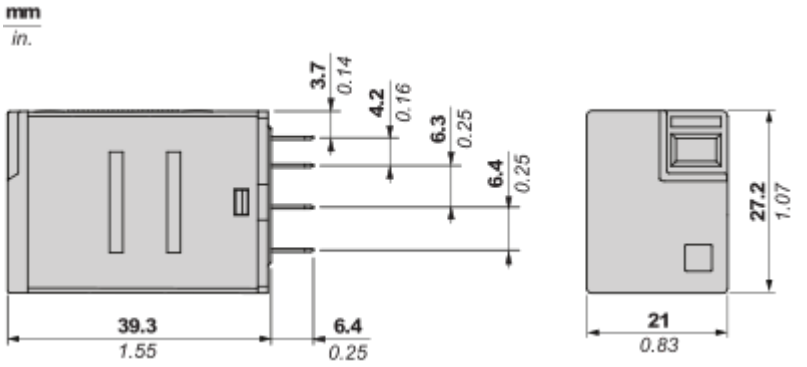
## Use Again

### Repack and remanufacture

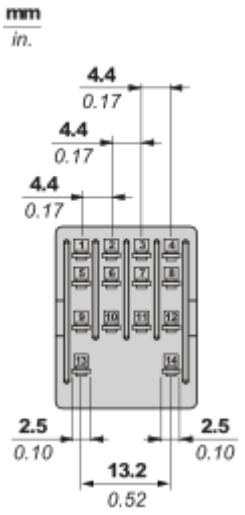
| | |
|---|---|
| Recyclability potential, in % | **55** |
| End of life manual availability | **End of Life Information** |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |

Dimensions Drawings

## Dimensions

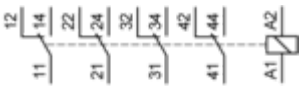


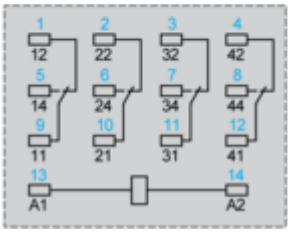

Pin Side View



## Connections and Schema

### Wiring Diagram



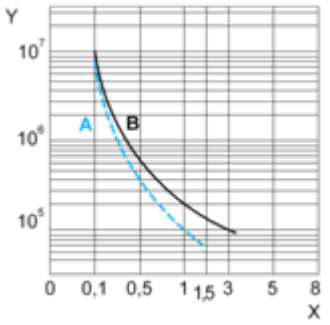

Symbols shown in blue correspond to Nema marking.

## Performance Curves

### Electrical Durability of Contacts

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

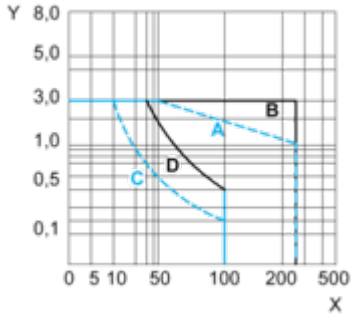
For 4 Poles Relay




**X :** Contact current (A)
**Y :** Durability (Number of operating cycles)
**A :** Inductive load
**B :** Resistive load
**Note :** These are typical curves, actual durability depends on load, environment, duty cycle, etc.
For inductive load, to increase relay life cycles, please add a proper load protection circuit (eg: RC protection/Varistor/free Wheeling diode -DC load only- )

## Maximum Switching Capacity

For 4 Poles Relay

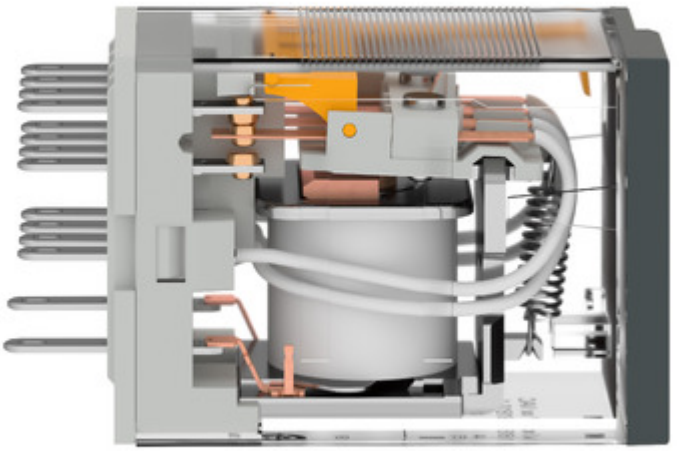



**X :** Contact voltage (v)
**Y :** Contact current (A)
**A :** Inductive AC load
**B :** Resistive AC load
**C :** Inductive DC load
**D :** Resistive DC load
**Note :** These are typical curves, actual durability depends on load, environment, duty cycle, etc.
For inductive load, to increase relay life cycles, please add a proper load protection circuit (eg: RC protection/Varistor/free Wheeling diode -DC load only- )
For low level loads (below 10mA), we recommend to use RXM*GB series with bifurcated contacts relays instead.

Image of product / Alternate images

**Alternative**






Made in China



