

# Product datasheet

Specifications



## miniature plug-in relay - Harmony RXM2L - 2 C/O - 48 V DC - 5 A - with LED

Local distributor code:  
403012611

RXM2LB2ED

EAN Code: 3389119215299

### Main

|                                              |                                  |
|----------------------------------------------|----------------------------------|
| Range of product                             | Harmony Electromechanical Relays |
| Series name                                  | Miniature                        |
| Product or component type                    | Plug-in relay                    |
| Device short name                            | RXM                              |
| Contacts type and composition                | 2 C/O                            |
| [Ithe] conventional enclosed thermal current | 5 A at -40...55 °C               |

### Complementary

|                                  |                                                                                                                                                                  |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated operational voltage limits | 38.4...52.8 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       | $\geq 0.1 U_c$ DC                                                                                                                                                |
| Load current                     | 5 A at 250 V AC<br>5 A at 28 V DC                                                                                                                                |
| Maximum switching capacity       | 1250 VA AC<br>140 W DC                                                                                                                                           |
| Average resistance               | 2600 Ohm at 23 °C +/- 10 %                                                                                                                                       |
| Average coil consumption         | 0.9 W, DC                                                                                                                                                        |
| Mechanical durability            | 10000000 cycles                                                                                                                                                  |
| Electrical durability            | 100000 cycles for resistive load<br>50000 cycles, 1 A at 28 V, DC-13 NO                                                                                          |
| Safety reliability data          | B10d = 100000                                                                                                                                                    |
| Operating rate                   | $\leq 1200$ cycles/hour under load<br>$\leq 18000$ 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                 | 3                                                                                                                                                                |
| Operating position               | Any position                                                                                                                                                     |
| Test levels                      | Level A group mounting                                                                                                                                           |
| Sale per indivisible quantity    | 10                                                                                                                                                               |

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

|                   |                      |
|-------------------|----------------------|
| Contacts material | Silver alloy (Ag/Ni) |
| Net weight        | 0.033 kg             |

## Environment

|                                     |                                                                                                                                                                          |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                           | CE<br>IEC 61810-1 (iss. 2)                                                                                                                                               |
| 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             | 3.2 cm  |
| Package 1 Width              | 1.03 cm |
| Package 1 Length             | 1.26 cm |
| Package 1 Weight             | 40.0 g  |
| Unit Type of Package 2       | BB1     |
| Number of Units in Package 2 | 10      |
| Package 2 Height             | 3.0 cm  |
| Package 2 Width              | 10.3 cm |
| Package 2 Length             | 12.7 cm |
| Package 2 Weight             | 400.0 g |
| Unit Type of Package 3       | CAR     |
| Number of Units in Package 3 | 270     |
| Package 3 Height             | 15.0 cm |
| Package 3 Width              | 30.0 cm |
| Package 3 Length             | 40.0 cm |
| Package 3 Weight             | 10.8 kg |

## Logistical informations

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

## Contractual warranty

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

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                               |                                               |
|-------------------------------------------------------|-----------------------------------------------|
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 14                                            |
| Environmental Disclosure                              | <a href="#">Product Environmental Profile</a> |

Use Better

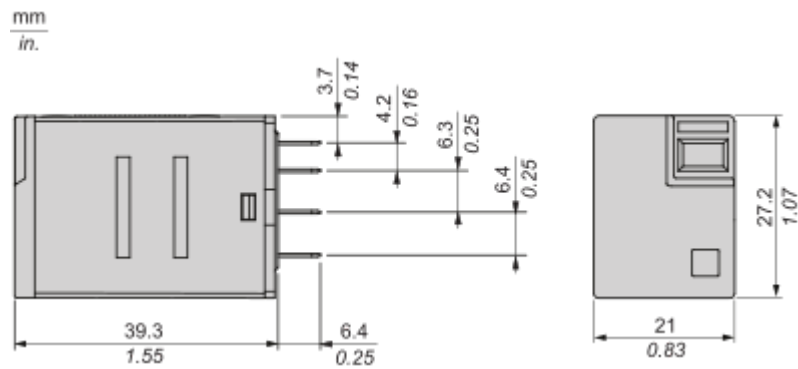
| Materials and Substances               |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                        |
| Packaging without single use plastic   | Yes                                                        |
| <a href="#">EU RoHS Directive</a>      | Pro-active compliance (Product out of EU RoHS legal scope) |
| REACH Regulation                       | <a href="#">REACH Declaration</a>                          |
| China RoHS Regulation                  | <a href="#">China RoHS declaration</a>                     |

Use Again

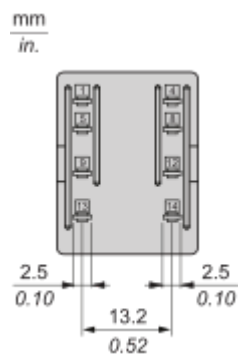
| Repack and remanufacture |                                                                                                                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
| Take-back                | No                                                                                                                                                                                                              |

Dimensions Drawings

Dimensions

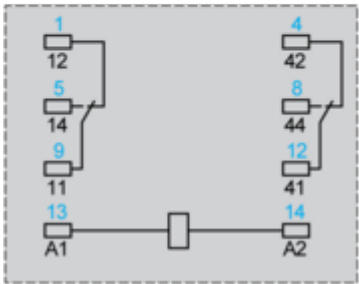
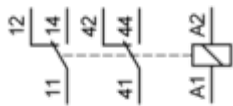


Pin Side View



Connections and Schema

Wiring Diagram



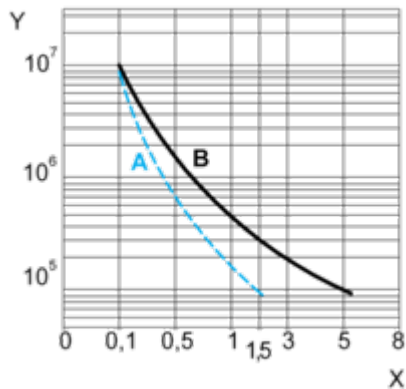
Symbols shown in blue correspond to Nema marking.

Performance Curves

Electrical Durability of Contacts

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

For 2 Poles Relay



X : Contact current (A)

Y : Durability (Number of operating cycles)

A : Inductive load

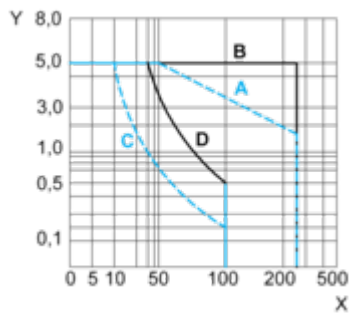
B : Resistive load

**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 2 Poles Relay

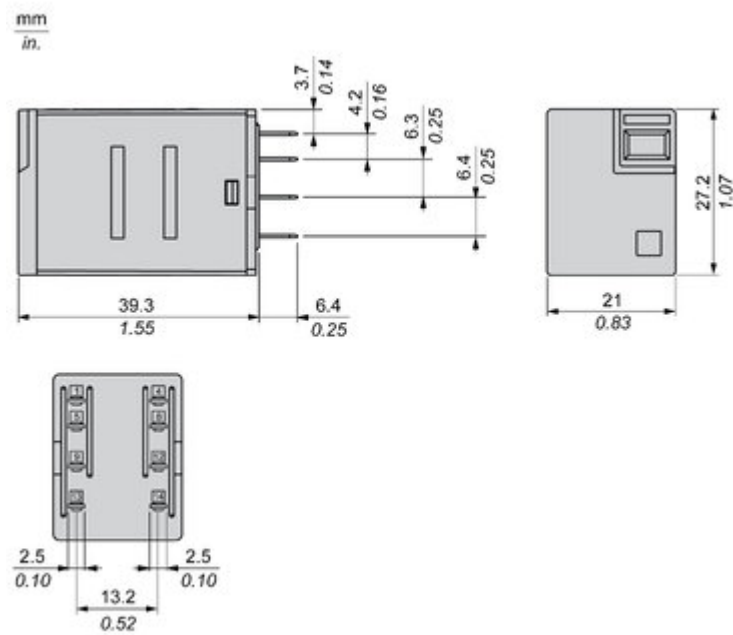


- X : Contact voltage (v)
- Y : Contact current (A)
- A : Inductive AC load
- B : Resistive AC load
- C : Inductive DC load
- D : Resistive DC load

**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.

Technical Illustration

Dimensions

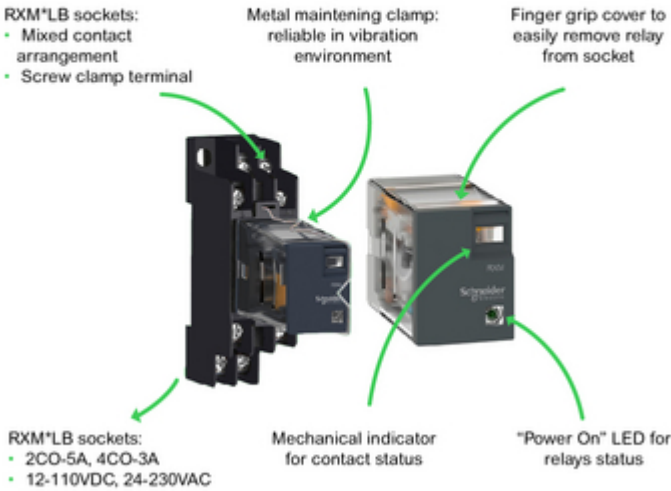


Offer Marketing Illustration

Product benefits / Features

Technical Benefits

Easy Harmony RXMLB Relay



Offer Marketing Illustration

Product benefits / Features

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Features

Easy Harmony RXMLB Relay



Fit to customer needs  
coverage of most general  
control panel applications



Easy to select  
simple selection and  
wide availability



Convenient to use  
Easy status readiness  
through mechanical  
indicator & LED



Safe to perform  
product reliability,  
compliance with  
industrial standard  
and eco-design

Image of product / Alternate images

Alternative

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