

# Product datasheet

Specifications



## miniature plug-in relay - Harmony RXM2L - 2 C/O - 230 V AC - 5 A - without LED

RXM2LB1P7

### Main

Range of product	Harmony Electromechanical Relays
Coil interference suppression	Without
Series name	Miniature
Product or component type	Plug-in relay
Device short name	RXM
Contacts type and composition	2 C/O
[I <sub>th</sub> ] conventional enclosed thermal current	5 A at -40...55 °C

### Complementary

Contact operation	Standard
[U <sub>c</sub> ] control circuit voltage	230 V AC 50/60 Hz
Status LED	Without
Control type	Without push-button
[U <sub>imp</sub> ] rated impulse withstand voltage	4 kV during 1.2/50 µs conforming to IEC 61810-7
[I <sub>e</sub> ] rated operational current	5 A (AC-1/DC-1) NO conforming to IEC 2.5 A (AC-1/DC-1) NC conforming to IEC 1 A at 28 V (DC-13) NO
Minimum switching capacity	25 mW subject to switching frequency, environment or expected reliability level etc
Average coil consumption in VA	1.2 AC
Operating time	20 ms between coil de-energisation and making of the Off-delay contact 20 ms between coil energisation and making of the On-delay contact
CAD overall width	21 mm
CAD overall height	27 mm
CAD overall depth	46 mm
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
Rated operational voltage limits	184...253 V AC
[U <sub>i</sub> ] rated insulation voltage	250 V conforming to IEC
Maximum switching voltage	250 V AC 28 V DC
Drop-out voltage threshold	$\geq 0.15 U_c$ AC
Load current	5 A at 250 V AC 5 A at 28 V DC

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

<b>Maximum switching capacity</b>	1250 VA AC 140 W DC
<b>Average resistance</b>	16500 Ohm at 23 °C +/- 15 %
<b>Mechanical durability</b>	10000000 cycles
<b>Electrical durability</b>	100000 cycles for resistive load 50000 cycles, 1 A at 28 V, DC-13 NO
<b>Safety reliability data</b>	B10d = 100000
<b>Operating rate</b>	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load
<b>Utilisation coefficient</b>	20 %
<b>Dielectric strength</b>	2000 V AC between coil and contact with basic insulation 2000 V AC between poles with basic insulation 1000 V AC between contacts with micro disconnection
<b>Protection category</b>	RT I
<b>Pollution degree</b>	3
<b>Operating position</b>	Any position
<b>Test levels</b>	Level A group mounting
<b>Sale per indivisible quantity</b>	10
<b>Contacts material</b>	Silver alloy (Ag/Ni)

## Environment

<b>IP degree of protection</b>	IP40 conforming to IEC 60529
<b>Standards</b>	CE IEC 61810-1 (iss. 2)
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Vibration resistance</b>	3 gn, amplitude = +/- 1 mm (f = 10...50 Hz)operating conforming to IEC 60068-2-6 6 gn, amplitude = +/- 1 mm (f = 10...50 Hz)not operating conforming to IEC 60068-2-6
<b>Shock resistance</b>	30 gn for not operating conforming to IEC 60068-2-27 10 gn for in operation conforming to IEC 60068-2-27

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	2.1 cm
<b>Package 1 Width</b>	2.7 cm
<b>Package 1 Length</b>	4.6 cm
<b>Package 1 Weight</b>	31.0 g
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	10
<b>Package 2 Height</b>	3 cm
<b>Package 2 Width</b>	11.5 cm
<b>Package 2 Length</b>	10 cm
<b>Package 2 Weight</b>	390 g
<b>Unit Type of Package 3</b>	S02

<b>Number of Units in Package 3</b>	270
<b>Package 3 Height</b>	15 cm
<b>Package 3 Width</b>	30 cm
<b>Package 3 Length</b>	40 cm
<b>Package 3 Weight</b>	10.985 kg

## **Contractual warranty**

<b>Warranty</b>	12 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Reach Free Of Svhc

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

**Reach Regulation**

[REACH Declaration](#)

**Eu Rohs Directive**

Pro-active compliance (Product out of EU RoHS legal scope)

[EU RoHS Declaration](#)

**China Rohs Regulation**

[China RoHS declaration](#)

**Environmental Disclosure**

[Product Environmental Profile](#)

**Weee**

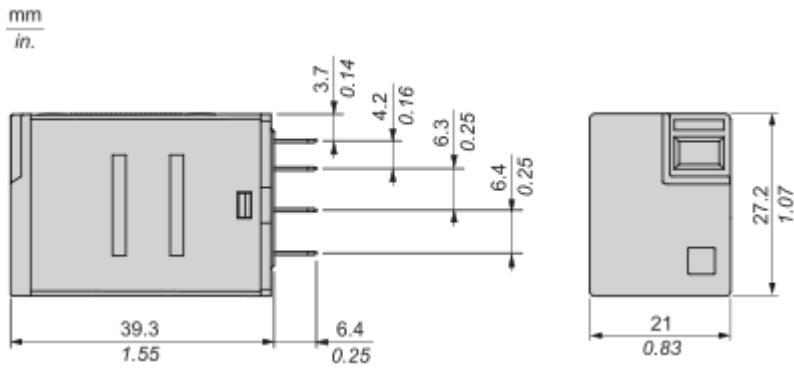
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

**Circularity Profile**

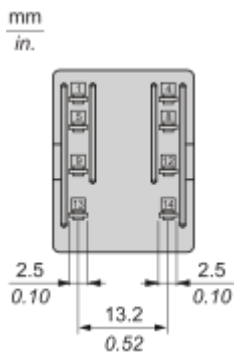
[End of Life Information](#)

Dimensions Drawings

Dimensions



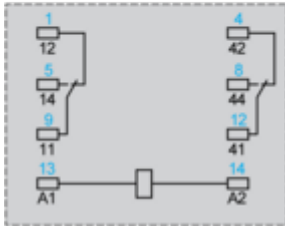
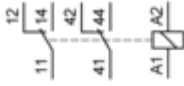
Pin Side View



Connections and Schema

Wiring Diagram

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Symbols shown in blue correspond to Nema marking.

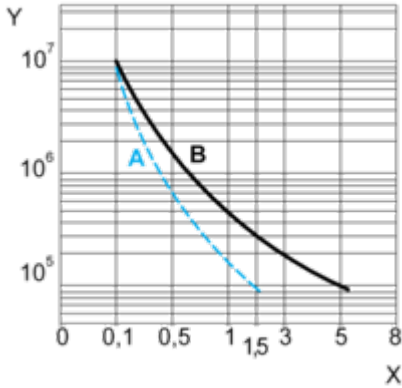
Performance Curves

Electrical Durability of Contacts

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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

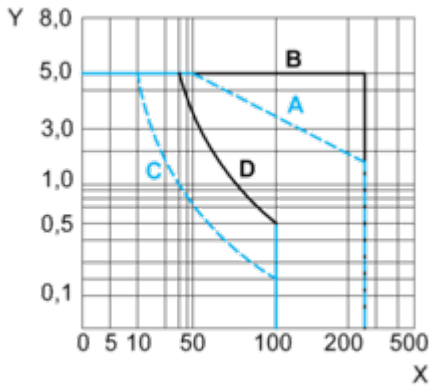
**Note** : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

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**

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For 2 Poles Relay



X : Contact voltage (v)

Y : Contact current (A)

A : Inductive AC load

B : Resistive AC load

C : Inductive DC load

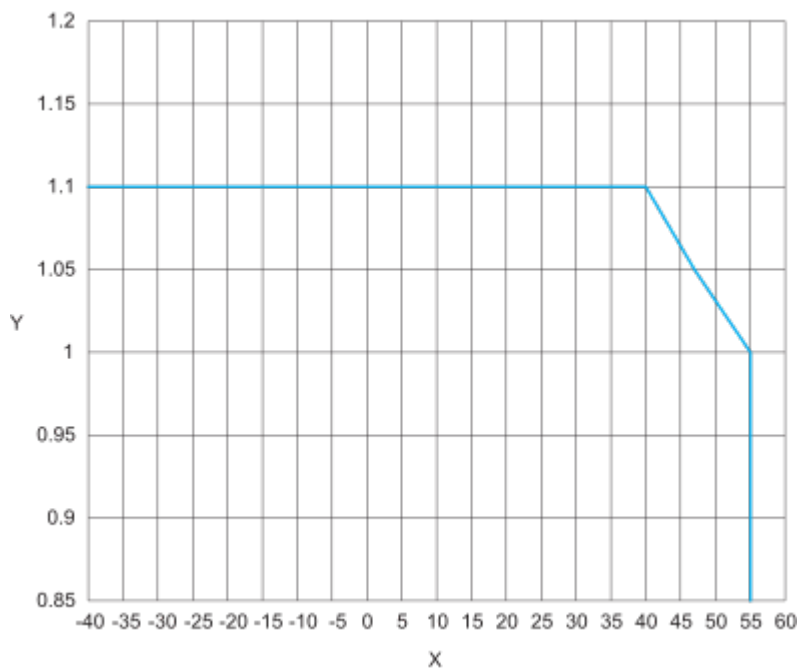
D : Resistive DC load

**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.

AC Coil Voltage and Operating Temperature under continuous duty



X : Operating temperature (°C)

Y : AC coil voltage (UC)

Technical Illustration

Dimensions

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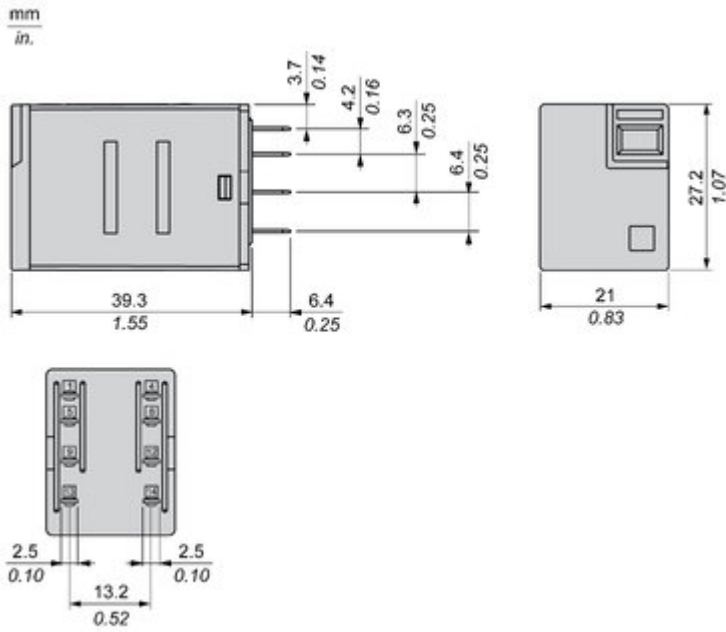
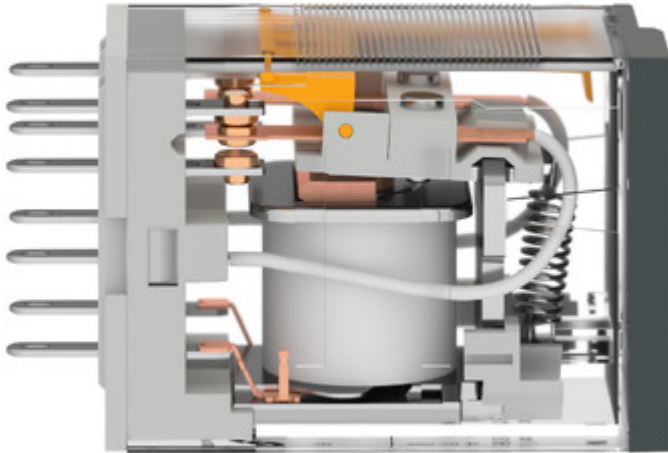


Image of product / Alternate images

Alternative

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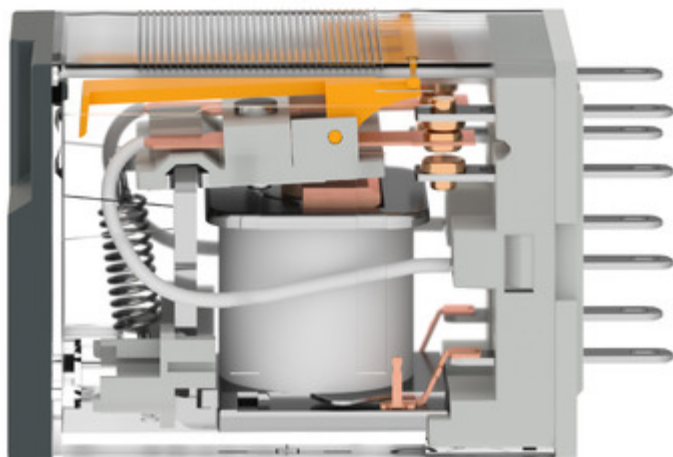




Image of product in real life situation

