

# Product datasheet

Specifications



## miniature plug-in relay - Harmony RXM2L - 2 C/O - 24 V DC - 5 A - with LED

RXM2LB2BD

### 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
[I <sub>th</sub> ] conventional enclosed thermal current	5 A at -40...55 °C

### Complementary

Rated operational voltage limits	19.2...26.4 V DC
[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	$\geq 0.1 U_c$ DC
Load current	5 A at 250 V AC 5 A at 28 V DC
Maximum switching capacity	1250 VA AC 140 W DC
Average resistance	640 Ohm at 23 °C +/- 10 %
Average coil consumption	0.9 W, DC
Mechanical durability	10000000 cycles
Electrical durability	100000 cycles for resistive load 50000 cycles, 1 A at 28 V, DC-13 NO
Safety reliability data	B10d = 100000
Operating rate	$\leq 1200$ cycles/hour under load $\leq 18000$ cycles/hour no-load
Utilisation coefficient	20 %
Dielectric strength	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
Protection category	RT I
Pollution degree	3
Operating position	Any position
Test levels	Level A group mounting
Sale per indivisible quantity	10

<b>Contacts material</b>	Silver alloy (Ag/Ni)
<b>Net weight</b>	0.032 kg

## Environment

<b>Standards</b>	IEC 61810-1 (iss. 2) CE
<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>	2.000 cm
<b>Package 1 Width</b>	2.500 cm
<b>Package 1 Length</b>	4.500 cm
<b>Package 1 Weight</b>	33.000 g
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	10
<b>Package 2 Height</b>	3.000 cm
<b>Package 2 Width</b>	10.500 cm
<b>Package 2 Length</b>	12.500 cm
<b>Package 2 Weight</b>	363.000 g
<b>Unit Type of Package 3</b>	S02
<b>Number of Units in Package 3</b>	270
<b>Package 3 Height</b>	15.000 cm
<b>Package 3 Width</b>	30.000 cm
<b>Package 3 Length</b>	40.000 cm
<b>Package 3 Weight</b>	10.065 kg

## Contractual warranty

<b>Warranty</b>	18 months
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## 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.

[How this information helps you >](#)

### Environmental footprint

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	13
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Environmental Disclosure

[Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard	Yes
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Packaging without single use plastic	Yes
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[EU RoHS Directive](#)

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

REACH Regulation

[REACH Declaration](#)

China RoHS Regulation

[China RoHS declaration](#)

## Use Again

### Repack and remanufacture

Circularity Profile

[End of Life Information](#)

WEEE



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

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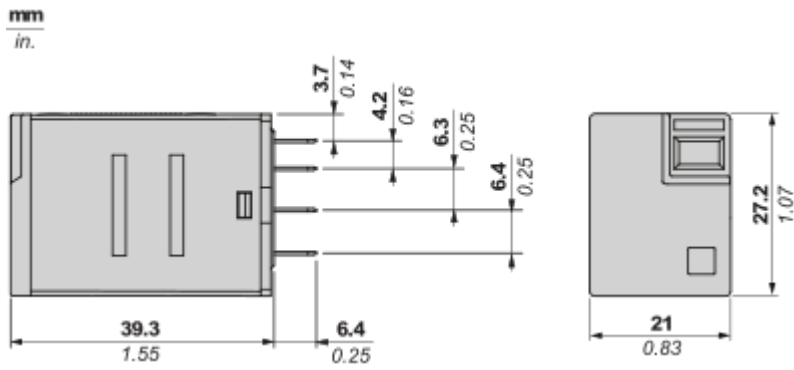
Take-back

No

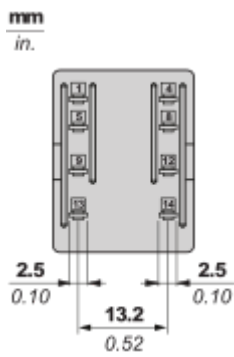
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Dimensions Drawings

Dimensions



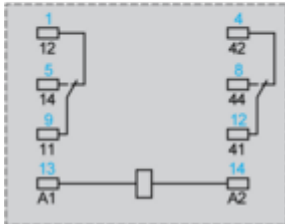
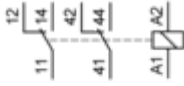
Pin Side View



Connections and Schema

Wiring Diagram

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Symbols shown in blue correspond to Nema marking.

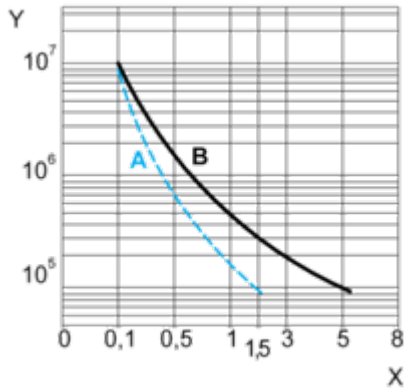
Performance Curves

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

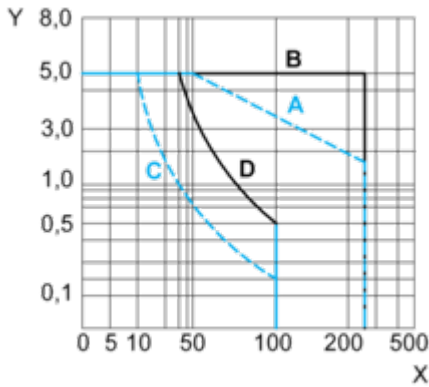
**Note** : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

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- )

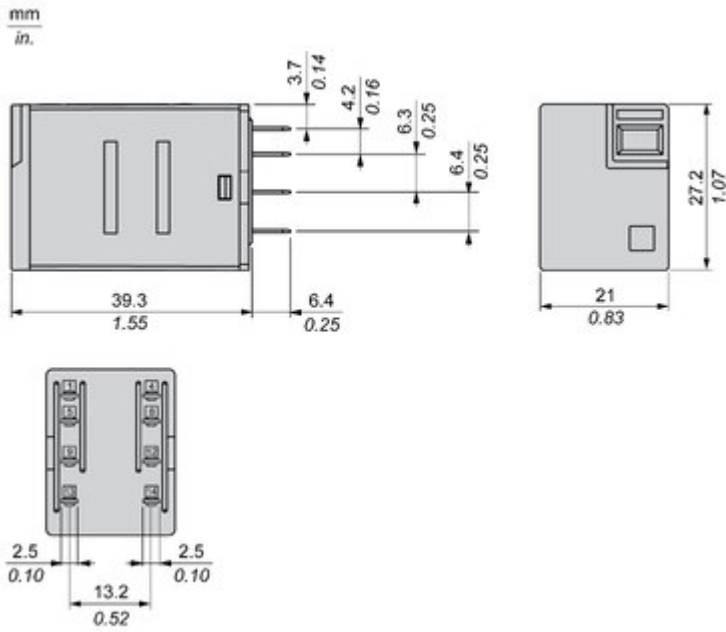
For low level loads (below 10mA), we recommend to use RXM\*GB series with bifurcated contacts relays instead.



Technical Illustration

Dimensions

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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

Offer Marketing Illustration

Product benefits / Features

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## Technical Benefits

### Easy Harmony RXMLB Relay

RXM<sup>®</sup>LB sockets:

- Mixed contact arrangement
- Screw clamp terminal

Metal maintaining clamp:  
reliable in vibration  
environment

Finger grip cover to  
easily remove relay  
from socket

RXM<sup>®</sup>LB sockets:

- 2CO-5A, 4CO-3A
- 12-110VDC, 24-230VAC

Mechanical indicator  
for contact status

"Power On" LED for  
relays status

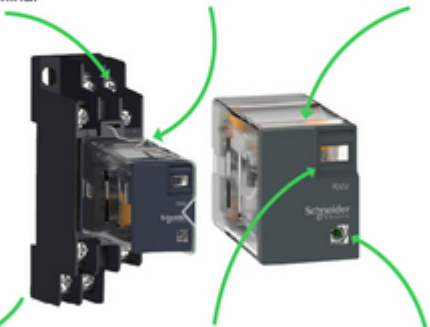
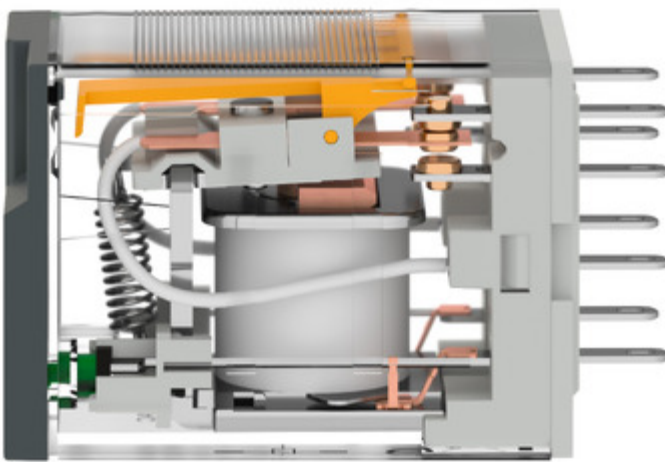


Image of product / Alternate images

Alternative

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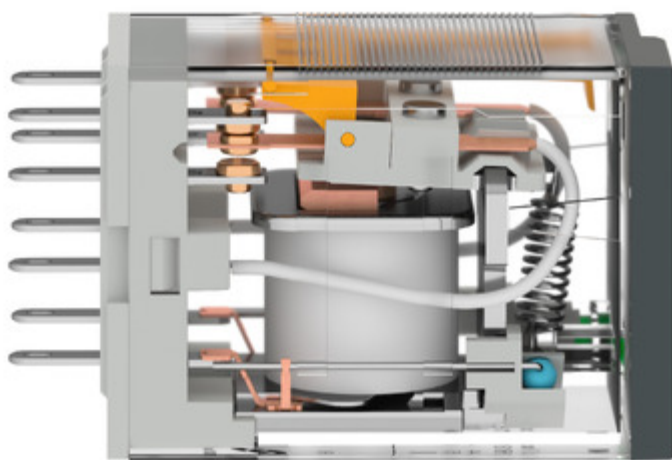


Image of product in real life situation

