

Product data sheet

Specifications



miniature, Harmony Electromechanical Relays, 5A, 2CO, with LED, 110V DC

RXM2LB2FD

Product availability: Non-Stock - Not normally stocked in distribution facility

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	2 C/O
[Uc] control circuit voltage	110 V DC
[Ithe] conventional enclosed thermal current	5 A -40...131 °F (-40...55 °C)

Complementary

Status LED	With
Control Type	Without lockable test button
[Ie] rated operational current	2.5 A 28 V DC) NC IEC 2.5 A 250 V AC) NC IEC 5 A 28 V DC) NO IEC 5 A 250 V AC) NO IEC 5 A 24 V DC) NO IEC 5 A 220 V AC) NO IEC 5 A 28 V DC) UL 5 A 250 V AC) UL
Minimum switching capacity	25 mW subject to switching frequency, environment or expected reliability level etc
Rated operational voltage limits	88...121 V DC
[Ui] rated insulation voltage	250 V IEC
Maximum switching voltage	250 V AC 28 V DC
Drop-out voltage threshold	>= 0.1 Uc DC
Load current	5 A 250 V AC 5 A 28 V DC
Maximum switching capacity	1250 VA AC 140 W DC
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	11000 Ohm at 73 °F (23 °C) +/- 10 %
Average coil consumption	0.9 W, DC
Mechanical durability	20000000 cycles
Electrical durability	200000 cycles resistive 23 °C 100000 cycles resistive at 55 °C
Safety reliability data	B10d = 100000

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Operating rate	<= 1200 cycles/hour under load <= 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
Contacts material	Silver alloy (Ag/Ni)
Shape of pin	Flat (faston type)
Net Weight	0.068 lb(US) (0.031 kg)

Environment

Standards	CE IEC 61810-1 (iss. 2) UL 508
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Vibration resistance	3 gn +/- 1 mm 10...50 Hz)operating IEC 60068-2-6 6 gn +/- 1 mm 10...50 Hz)not operating IEC 60068-2-6
Shock resistance	30 gnnot operating IEC 60068-2-27 10 gnin operation IEC 60068-2-27

Ordering and shipping details

Category	US1CP4B22153
Discount Schedule	CP4B
GTIN	3389119215305
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	0.787 in (2.000 cm)
Package 1 Width	0.984 in (2.500 cm)
Package 1 Length	1.772 in (4.500 cm)
Package weight(Lbs)	1.129 oz (32.000 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	1.181 in (3.000 cm)
Package 2 Width	4.134 in (10.500 cm)
Package 2 Length	4.921 in (12.500 cm)
Package 2 Weight	12.169 oz (345.000 g)

Unit Type of Package 3	S02
Number of Units in Package 3	270
Package 3 Height	5.906 in (15.000 cm)
Package 3 Width	11.811 in (30.000 cm)
Package 3 Length	15.748 in (40.000 cm)
Package 3 Weight	21.074 lb(US) (9.559 kg)

Contractual warranty

Warranty (in months)	18
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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.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	16 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	0.3 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]	16 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	REACH Declaration
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 www.P65Warnings.ca.gov

Use Longer



Lifetime extension

Repair	No
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Use Again

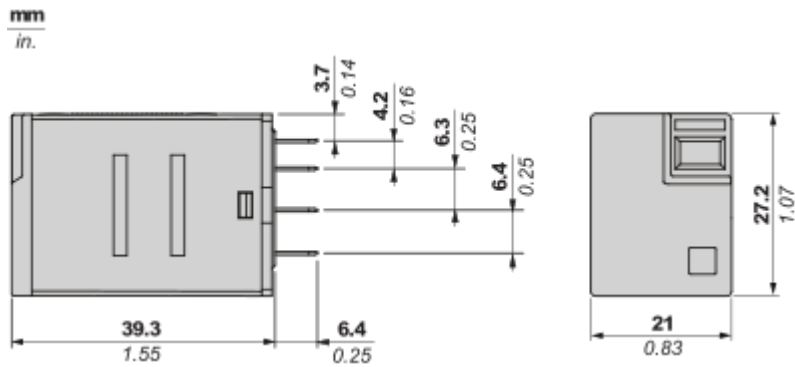


Repack and remanufacture

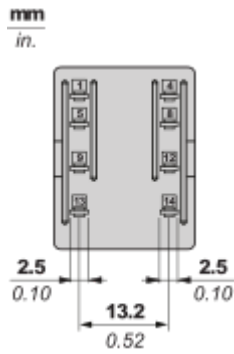
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

Dimensions

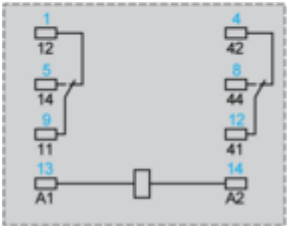


Pin Side View



Connections and Schema

Wiring Diagram



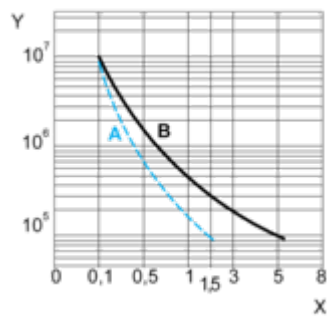
Symbols shown in blue correspond to Nema marking.

Performance Curves

Electrical Durability of Contacts

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

For 2 Poles Relay

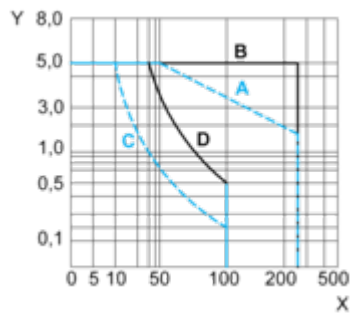


- X : Contact current (A)
- Y : Durability (Number of operating cycles)
- A : Inductive load
- B : Resistive load

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

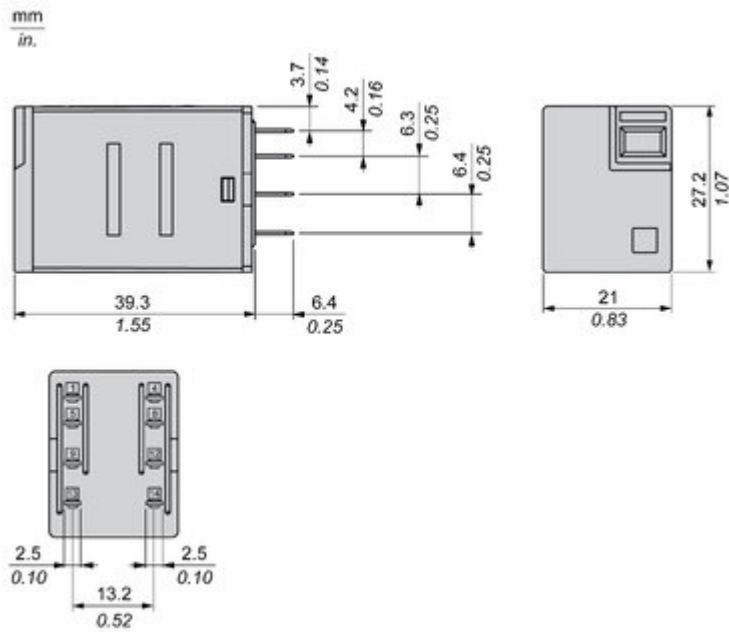
Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

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

RXM*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*LB sockets:

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

Mechanical indicator
for contact status

"Power On" LED for
relays status

The illustration shows two views of the RXM2LB2FD relay. On the left, a side view shows the relay mounted on a black terminal block. A green arrow points from the 'Mixed contact arrangement' text to the top of the relay. Another green arrow points from the 'Screw clamp terminal' text to the terminal block. On the right, a front view shows the relay's face. A green arrow points from the 'Finger grip cover' text to the top edge. Another green arrow points from the 'Mechanical indicator' text to a small window on the front. A third green arrow points from the '"Power On" LED' text to a small green LED on the bottom right. The Schneider Electric logo is visible on the front face.

Offer Marketing Illustration

Product benefits / Features

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



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Life Is On | Schneider Electric

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Image of product / Alternate images

Alternative



