

Product datasheet

Specifications



miniature plug in relay, Harmony Electromechanical Relays, 3A, 4CO, without LED, without lockable test button, flat (faston type), 120V AC

RXM4LB1F7

⚠ Discontinued on: 9 Feb 2023

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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	4 C/O
[Ithe] conventional enclosed thermal current	3 A at -40...55 °C
Coil interference suppression	Without

Complementary

Contact operation	Standard
status LED	Without
Control type	Without push-button
[Ie] rated operational current	1.5 A at 28 V (DC) NC conforming to IEC 1.5 A at 250 V (AC) NC conforming to IEC 3 A at 28 V (DC) NO conforming to IEC 3 A at 250 V (AC) NO conforming to IEC 3 A at 24 V (DC) NO conforming to IEC 3 A at 220 V (AC) NO conforming to IEC 3 A at 28 V (DC) conforming to UL 3 A at 250 V (AC) conforming to UL
Minimum switching capacity	25 mW subject to switching frequency, environment or expected reliability level etc
CAD overall width	21 mm
CAD overall height	27 mm
Rated operational voltage limits	96...132 V AC
[Ui] rated insulation voltage	250 V conforming to IEC
CAD overall depth	46 mm
Maximum switching voltage	250 V AC 28 V DC
Drop-out voltage threshold	$\geq 0.15 U_c$ AC
Load current	3 A at 250 V AC 3 A at 28 V DC
Maximum switching capacity	750 VA AC 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	4430 Ohm at 23 °C +/- 10 %
Mechanical durability	20000000 cycles
Electrical durability	200000 cycles resistive load 23 °C 100000 cycles resistive load at 55 °C
Safety reliability data	B10d = 100000
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	2
Operating position	Any position
Test levels	Level A group mounting
Sale per indivisible quantity	10
Contacts material	Silver alloy (Ag/Ni)
Net weight	0.033 kg

Environment

Standards	CE IEC 61810-1 (iss. 2) 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 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 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	2.000 cm
Package 1 Width	2.500 cm
Package 1 Length	4.500 cm
Package 1 Weight	33.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3.000 cm
Package 2 Width	10.000 cm
Package 2 Length	12.500 cm
Package 2 Weight	366.000 g
Unit Type of Package 3	S02

Number of Units in Package 3	270
Package 3 Height	15.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	10.111 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

[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](#)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

End of life manual availability

[End of Life Information](#)

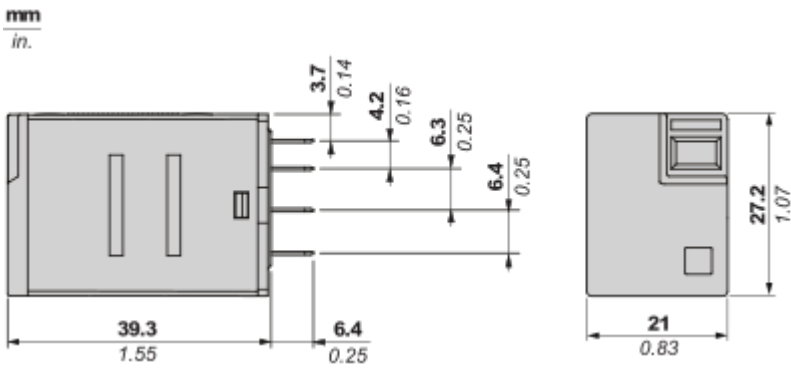
WEEE Label



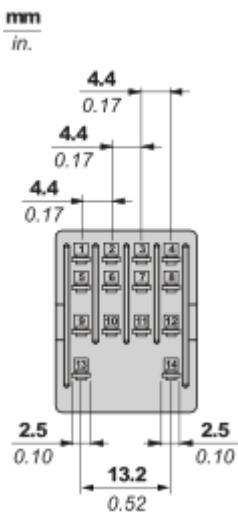
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions

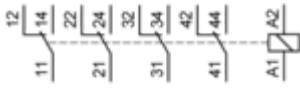


Pin Side View



Connections and Schema

Wiring Diagram



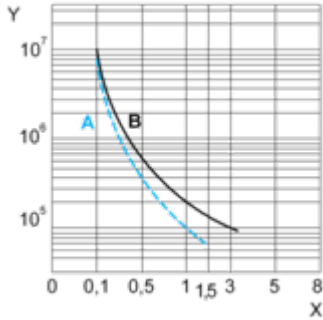
Symbols shown in blue correspond to Nema marking.

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

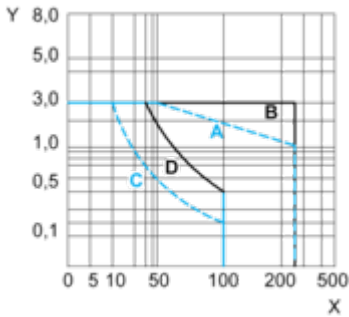
B : Resistive load

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

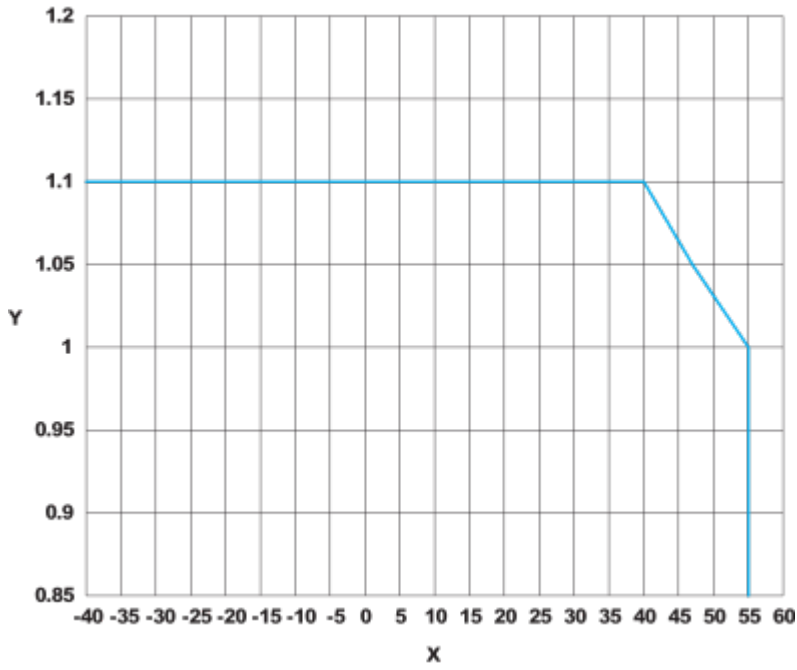
D : Resistive DC load

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.

AC Coil Voltage and Operating Temperature under continuous duty

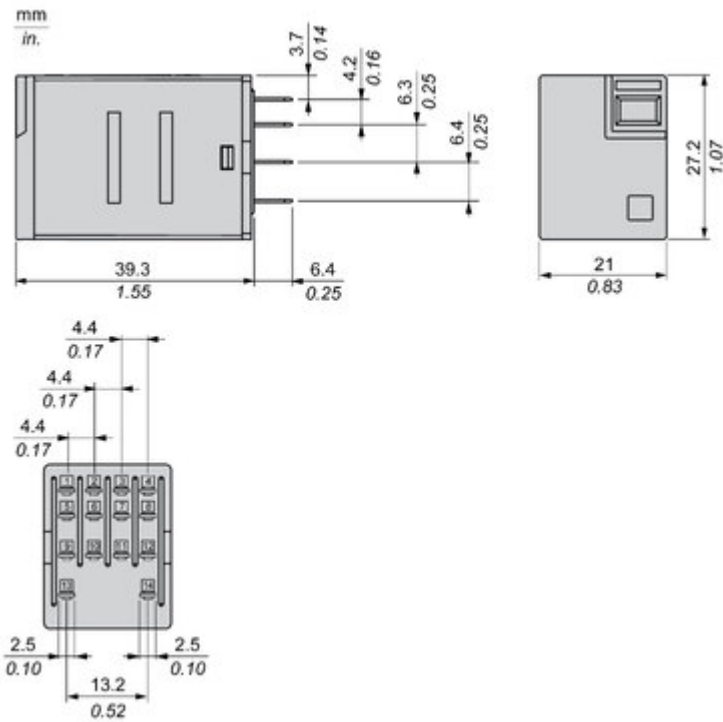


X : Operating temperature (°C)

Y : AC coil voltage (UC)

Technical Illustration

Dimensions



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

Offer Marketing Illustration

Product benefits / Features

Technical Benefits

Easy Harmony RXMLB Relay

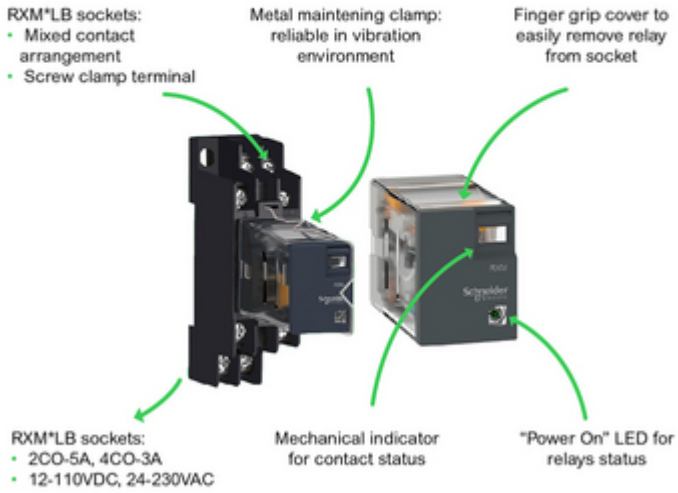


Image of product / Alternate images

Alternative

