# **Product datasheet**

Specification





# Miniature plug in relay, Harmony, 5A, 2CO, without LED, 120V AC

RXM2LB1F7

#### Main

Range Of Product	Harmony Electromechanical Relays
Series Name	Miniature
Product Or Component Type	Plug-in relay
Device Short Name	RXM
Coil Interference Suppression	Without
Utilisation Coefficient	20 %
Sale Per Indivisible Quantity	10

## Complementary

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Contacts Type And Composition	2 C/O
Contact Operation	Standard
[Uc] Control Circuit Voltage	120 V AC 50/60 Hz
[Ithe] Conventional Enclosed Thermal Current	5 A at -4055 °C
Status Led	Without
Control Type	Without push-button
[Ui] Rated Insulation Voltage	250 V conforming to IEC
[Uimp] Rated Impulse Withstand Voltage	4 kV during 1.2/50 μs conforming to IEC 61810-7
Contacts Material	Silver alloy (Ag/Ni)
[le] 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 Current	10 mA
Maximum Switching Voltage	250 V AC 28 V DC
Minimum Switching Voltage	17 V
Load Current	5 A at 250 V AC 5 A at 28 V DC
Maximum Switching Capacity	1250 VA AC 140 W DC
Minimum Switching Capacity	170 mW
Operating Rate	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load
Mechanical Durability	10000000 cycles

Electrical Durability	100000 cycles for resistive load 50000 cycles, 1 A at 28 V, DC-13 NO
Average Coil Consumption In Va	1.2 AC
Drop-Out Voltage Threshold	>= 0.15 Uc 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
Average Resistance	4430 Ohm at 23 °C +/- 10 %
Rated Operational Voltage Limits	96132 V AC
Protection Category	RTI
Test Levels	Level A group mounting
Operating Position	Any position
Cad Overall Width	21 mm
Cad Overall Height	27 mm
Cad Overall Depth	46 mm
Net Weight	0.031 kg
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
Safety Reliability Data	B10d = 100000

## **Environment**

Standards	CE IEC 61810-1 (iss. 2)	
Ambient Air Temperature For Storage	-4085 °C	
Ambient Air Temperature For Operation	-4055 °C	
Vibration Resistance	3 gn, amplitude = $\pm$ 1 mm (f = 1050 Hz)operating conforming to IEC 60068-2-6 6 gn, amplitude = $\pm$ 1 mm (f = 1050 Hz)not operating conforming to IEC 60068-2-6	
Ip Degree Of Protection	tection IP40 conforming to IEC 60529	
Pollution Degree	Degree 3	
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	32.000 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	10
Package 2 Height	3.000 cm
Package 2 Width	10.500 cm
Package 2 Length	12.500 cm

Package 2 Weight	348.000 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	9.649 kg

## **Contractual warranty**

Warranty 18 months



**Green Premium**<sup>TM</sup> **label** is Schneider Electric's commitment to delivering products with best-inclass 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

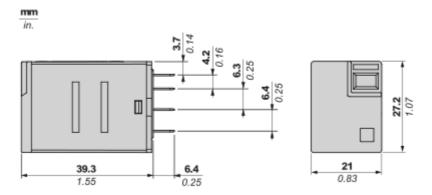
<b>②</b>	Reach Free Of Svhc	
<b>9</b>	Toxic Heavy Metal Free	
<b>②</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes

### **Certifications & Standards**

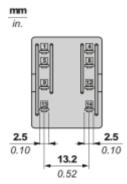
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
<b>Environmental Disclosure</b>	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

#### **Dimensions Drawings**

#### **Dimensions**



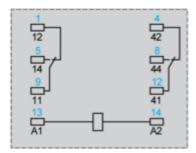
Pin Side View



Connections and Schema

#### Wiring Diagram





Symbols shown in blue correspond to Nema marking.

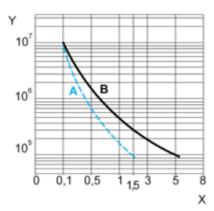
#### RXM2LB1F7

#### 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)

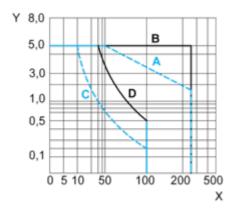
A: Inductive load B: Resistive load

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

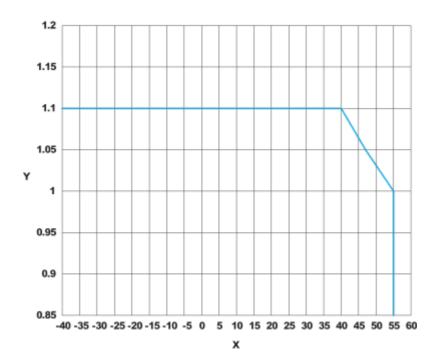
D: Resistive DC load

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.

AC Coil Voltage and Operating Temperature under continuous duty



X : Operating temperature (°C)Y : AC coil voltage (UC)