# **Product data sheet**





## miniature plug in relay, Harmony Electromechanical Relays, 12A, 2CO, with LED, 120V AC

RXM2AB3F7

! Discontinued on: Oct 9, 2023



Product availability: Stock - Normally stocked in distribution

#### 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	
[Uc] Control Circuit Voltage	120 V AC 50/60 Hz	
Status Led	With	
Control Type	Without lockable test button	
Utilisation Coefficient	20 %	

## Complementary

Shape Of Pin	Flat
[Ui] Rated Insulation Voltage	250 V IEC
	300 V CSA
	300 V UL
[Uimp] Rated Impulse Withstand Voltage	4 kV 1.2/50 μs
Contacts Material	AgNi
[le] Rated Operational Current	12 A 28 V DC) NO IEC
	12 A 250 V AC) NO IEC
	6 A 28 V DC) NC IEC
	6 A 250 V AC) NC IEC
	12 A 28 V DC) UL
	12 A 277 V AC) UL
Continuous Output Current	10 A
Maximum Switching Voltage	250 V IEC
Resistive Rated Load	12 A 250 V AC
	12 A 28 V DC
Maximum Switching Capacity	3000 VA/336 W
Minimum Switching Capacity	170 mW 10 mA, 17 V
Operating Rate	<= 1200 cycles/hour under load
	<= 18000 cycles/hour no-load
Mechanical Durability	10000000 cycles
Electrical Durability	100000 cycles resistive
Average Coil Consumption In Va	1.2 60 Hz

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

1.2 VA 60 Hz	
>= 0.15 Uc	
20 ms	
20 ms	
4430 Ohm 20 °C +/- 15 %	
96132 V AC	
B10d = 100000	
RTI	
Level A group mounting	
Any position	
3.26 in (82.8 mm)	
3.16 in (80.35 mm)	
0.08 lb(US) (0.037 kg)	
Complete product	

## **Environment**

Dielectric Strength	1300 V AC between contacts with micro disconnection 2000 V AC between coil and contact with basic insulation 2000 V AC between poles with basic insulation	
Product Certifications	UL Lloyd's CE CSA GOST IECEE CB Scheme	
Standards	IEC 61810-1 CSA C22.2 No 14 UL 508	
Ambient Air Temperature For Storage	-40185 °F (-4085 °C)	
Ambient Air Temperature For Operation	-40131 °F (-4055 °C)	
Vibration Resistance	3 gn +/- 1 mm 10150 Hz)5 cycles in operation 5 gn +/- 1 mm 10150 Hz)5 cycles not operating	
Ip Degree Of Protection	IP40 conforming to IEC 60529	
Shock Resistance	10 gnin operation 30 gnnot operating	
Pollution Degree	3	

# Ordering and shipping details

Category	US10CP221127	
Discount Schedule	0CP2	
Gtin	3389119217156	
Returnability	Yes	
Country Of Origin	CN	

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Package 1 Height	1.22 in (3.1 cm)
Package 1 Width	4.06 in (10.3 cm)
Package 1 Length	4.92 in (12.5 cm)
Package 1 Weight	1.34 oz (38 g)
Unit Type Of Package 2	BB1
Number Of Units In Package 2	10
Package 2 Height	1.22 in (3.1 cm)
Package 2 Width	4.06 in (10.3 cm)
Package 2 Length	4.92 in (12.5 cm)
Package 2 Weight	13.65 oz (387 g)
Unit Type Of Package 3	S01
Number Of Units In Package 3	120
Package 3 Height	5.91 in (15 cm)
Package 3 Width	5.91 in (15 cm)
Package 3 Length	15.75 in (40 cm)
Package 3 Weight	10.79 lb(US) (4.893 kg)

## **Contractual warranty**

Warranty 18 months

## Sustainability Screen Premium\*

**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



Reach Free Of Svhc



Rohs Exemption Information

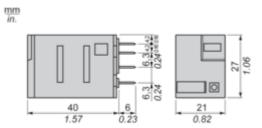
Yes

#### **Certifications & Standards**

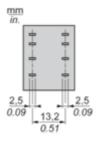
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following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

## **Dimensions Drawings**

### **Dimensions**



#### Pin Side View

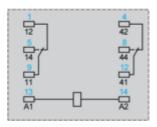


## RXM2AB3F7

Connections and Schema

### Wiring Diagram





Symbols shown in blue correspond to Nema marking.

#### Product data sheet

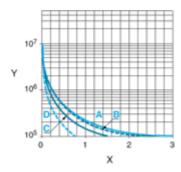
### RXM2AB3F7

#### Performance Curves

#### **Electrical Durability of Contacts**

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

Resistive AC load



X Switching capacity (kVA)

Y Durability (Number of operating cycles)

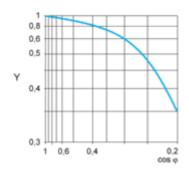
A RXM2AB\*\*\*

B RXM3AB\*\*\*

C RXM4AB\*\*\*

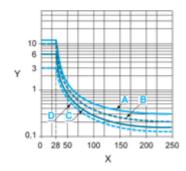
D RXM4GB•••

Reduction coefficient for inductive AC load (depending on power factor  $\cos \varphi$ )



#### Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



X Voltage DC

Y Current DC

A RXM2AB•••

B RXM3AB•••

C RXM4AB•••

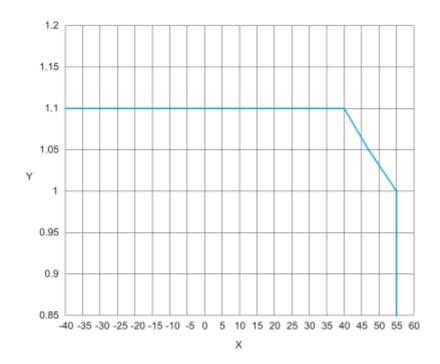
**D** RXM4GB•••

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)