

# Product data sheet

Specifications



miniature plug in relay, Harmony Electromechanical Relays, 10A, 3CO, lockable test but to n, 24V AC

RXM3AB1B7

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

Price\*: 6.95 USD

## 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	3 C/O
[Uc] Control Circuit Voltage	24 V AC 50/60 Hz
Status Led	Without
Control Type	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
[Ie] Rated Operational Current	10 A 28 V DC) NO IEC 10 A 250 V AC) NO IEC 5 A 28 V DC) NC IEC 5 A 250 V AC) NC IEC 10 A 30 V DC) UL 10 A 277 V AC) UL
Continuous Output Current	6.7 A
Maximum Switching Voltage	250 V IEC
Resistive Rated Load	10 A 250 V AC 10 A 28 V DC
Maximum Switching Capacity	2500 VA/280 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

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

Average Coil Consumption In Va	1.2 60 Hz
Average Consumption	1.2 VA 60 Hz
Drop-Out Voltage Threshold	>= 0.15 Uc
Operate Time	20 ms
Release Time	20 ms
Average Coil Resistance	180 Ohm 20 °C +/- 15 %
Rated Operational Voltage Limits	19.2...26.4 V AC
Safety Reliability Data	B10d = 100000
Protection Category	RT I
Test Levels	Level A group mounting
Operating Position	Any position
Cad Overall Height	3.11 in (79 mm)
Cad Overall Depth	3.09 in (78.45 mm)
Net Weight	0.08 lb(US) (0.037 kg)
Device Presentation	Complete product

## Environment

Dielectric Strength	1300 V AC between contacts with micro disconnection 2000 V AC between coil and contact 2000 V AC between poles
Product Certifications	UL Lloyd's CE CSA GOST IECEE CB Scheme
Standards	IEC 61810-1 UL 508 CSA C22.2 No 14
Ambient Air Temperature For Storage	-40...185 °F (-40...85 °C)
Ambient Air Temperature For Operation	-40...131 °F (-40...55 °C)
Vibration Resistance	3 gn +/- 1 mm 10...150 Hz)5 cycles in operation 5 gn +/- 1 mm 10...150 Hz)5 cycles not operating
Ip Degree Of Protection	IP40 conforming to IEC 60529
Shock Resistance	10 gn in operation 30 gn not operating
Pollution Degree	2

## Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
Gtin	3389119403542
Returnability	Yes
Country Of Origin	CN

## Packing Units

Unit Type Of Package 1	PCE
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<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	1.22 in (3.1 cm)
<b>Package 1 Width</b>	4.06 in (10.3 cm)
<b>Package 1 Length</b>	4.92 in (12.5 cm)
<b>Package 1 Weight</b>	1.27 oz (36 g)
<b>Unit Type Of Package 2</b>	BB1
<b>Number Of Units In Package 2</b>	10
<b>Package 2 Height</b>	1.22 in (3.1 cm)
<b>Package 2 Width</b>	4.06 in (10.3 cm)
<b>Package 2 Length</b>	4.92 in (12.5 cm)
<b>Package 2 Weight</b>	13.93 oz (395 g)
<b>Unit Type Of Package 3</b>	S02
<b>Number Of Units In Package 3</b>	240
<b>Package 3 Height</b>	5.91 in (15 cm)
<b>Package 3 Width</b>	11.81 in (30 cm)
<b>Package 3 Length</b>	15.75 in (40 cm)
<b>Package 3 Weight</b>	22.03 lb(US) (9.993 kg)

## Contractual warranty

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

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class 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.

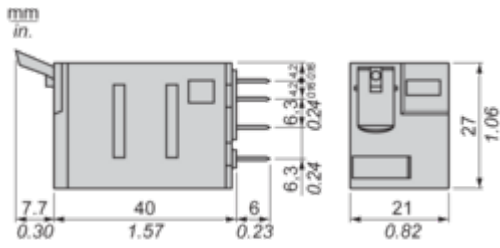
**Circularity Profile** [End of Life Information](#)

**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](http://www.P65Warnings.ca.gov)

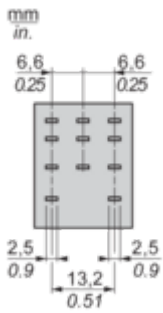
Dimensions Drawings

Dimensions

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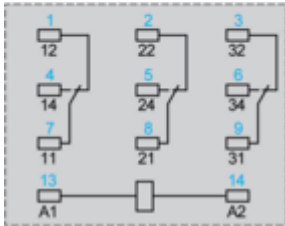
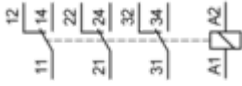
Pin Side View



Connections and Schema

Wiring Diagram

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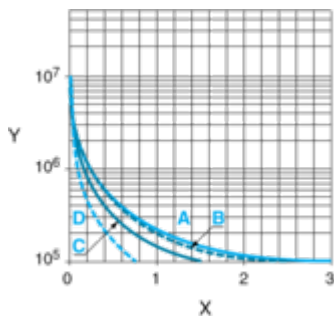
Symbols shown in blue correspond to Nema marking.

Performance Curves

Electrical Durability of Contacts

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

Resistive AC load



X Switching capacity (kVA)

Y Durability (Number of operating cycles)

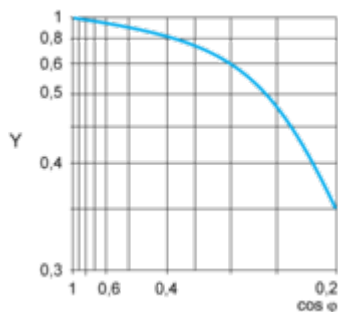
A RXM2AB...

B RXM3AB...

C RXM4AB...

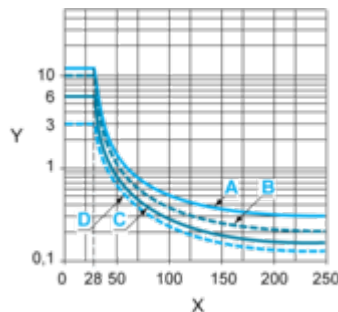
D RXM4GB...

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



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.

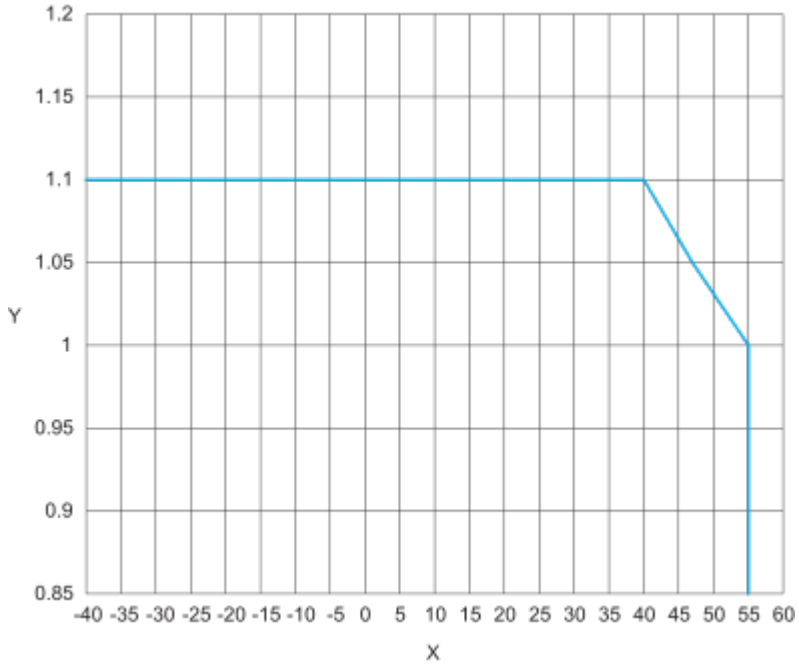
For inductive load, to increase relay life cycles, please add a proper load protection circuit (eg: RC protection/Varistor/ free Wheeling diode -DC load only- ).

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)