

# Product data sheet

Specifications



miniature plug in relay, Harmony Electromechanical Relays, 6A, 4CO, with LED, lockable test but to n, 230V AC

RXM4AB2P7

## 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
[Uc] Control Circuit Voltage	230 V AC 50/60 Hz
Status Led	With
Control Type	Lockable test button
Utilisation Coefficient	20 %

## Complementary

Shape Of Pin	Flat
[Ui] Rated Insulation Voltage	250 V conforming to IEC 300 V conforming to CSA 300 V conforming to UL
[Uimp] Rated Impulse Withstand Voltage	2.5 kV during 1.2/50 µs
Contacts Material	AgNi
[Ie] Rated Operational Current	3 A at 28 V (DC) NC conforming to IEC 3 A at 250 V (AC) NC conforming to IEC 6 A at 28 V (DC) NO conforming to IEC 6 A at 250 V (AC) NO conforming to IEC 6 A at 277 V (AC) conforming to UL 8 A at 30 V (DC) conforming to UL
Continuous Output Current	5 A
Maximum Switching Voltage	250 V conforming to IEC
Resistive Rated Load	6 A at 250 V AC 6 A at 28 V DC
Maximum Switching Capacity	1500 VA/168 W
Minimum Switching Capacity	170 mW at 10 mA, 17 V
Operating Rate	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load
Mechanical Durability	10000000 cycles
Electrical Durability	100000 cycles for resistive load
Average Coil Consumption In Va	1.2 at 60 Hz
Average Consumption	1.2 VA at 60 Hz

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

Drop-Out Voltage Threshold	>= 0.15 Uc
Operate Time	20 ms
Release Time	20 ms
Average Coil Resistance	15000 Ohm at 20 °C +/- 15 %
Rated Operational Voltage Limits	184...253 V AC
Safety Reliability Data	B10d = 100000
Protection Category	RT I
Test Levels	Level A group mounting
Operating Position	Any position
Cad Overall Height	82.8 mm
Cad Overall Depth	80.35 mm
Net Weight	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 with basic insulation 2000 V AC between poles with basic insulation
Product Certifications	UL Lloyd's CE CSA GOST IECEE CB Scheme
Standards	CSA C22.2 No 14 IEC 61810-1 UL 508
Ambient Air Temperature For Storage	-40...85 °C
Ambient Air Temperature For Operation	-40...55 °C
Vibration Resistance	3 gn, amplitude = +/- 1 mm (f = 10...150 Hz)5 cycles in operation 5 gn, amplitude = +/- 1 mm (f = 10...150 Hz)5 cycles not operating
Ip Degree Of Protection	IP40 conforming to IEC 60529
Shock Resistance	10 gn for in operation 30 gn for not operating
Pollution Degree	2

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.100 cm
Package 1 Width	2.700 cm
Package 1 Length	4.800 cm
Package 1 Weight	36.000 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	384.000 g
Unit Type Of Package 3	S02
Number Of Units In Package 3	240
Package 3 Height	15.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	9.695 kg

## Contractual warranty

Warranty	18 months
----------	-----------

# 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

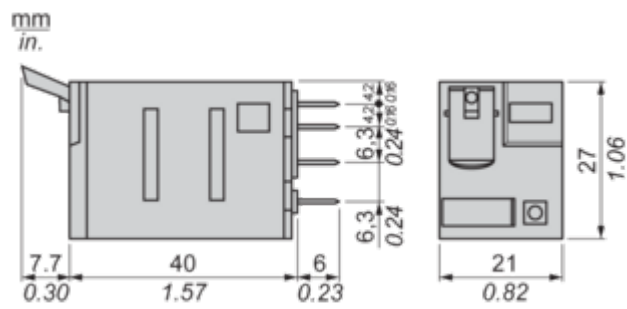
✓	Reach Free Of Svhc	
✓	Toxic Heavy Metal Free	
✓	Mercury Free	
✓	Rohs Exemption Information	Yes

## Certifications & Standards

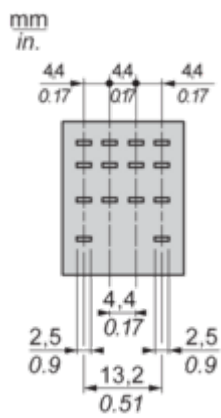
Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	<a href="#">End of Life Information</a>
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 <a href="#">www.P65Warnings.ca.gov</a>

Dimensions Drawings

Dimensions

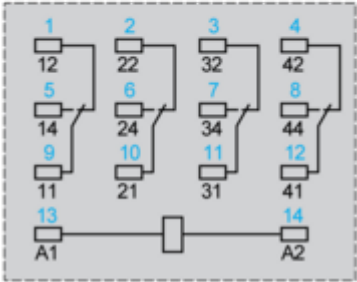
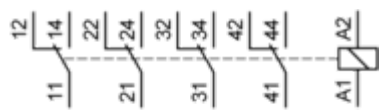


Pin Side View



Connections and Schema

Wiring Diagram

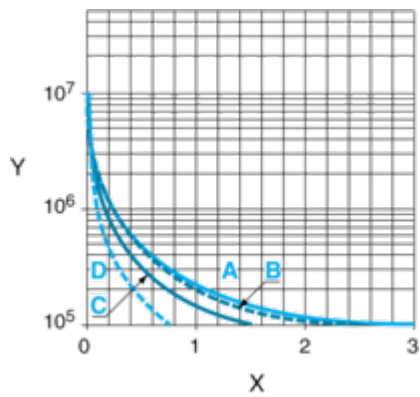


Symbols shown in blue correspond to Nema marking.

Performance Curves

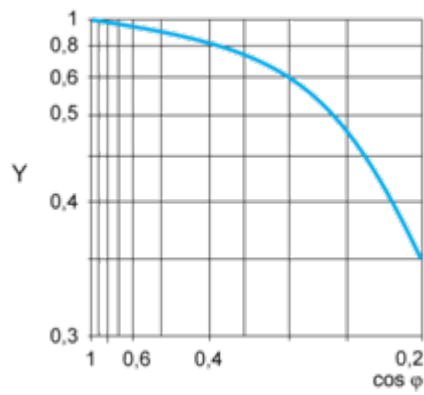
Electrical Durability of Contacts

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

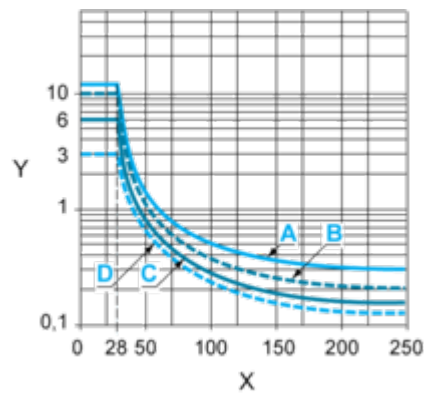


- X Switching capacity (kVA)
- Y Durability (Number of operating cycles)
- A RXM2AB...
- B RXM3AB...
- C RXM4AB...
- D RXM4GB...

Reduction coefficient for inductive AC load (depending on power factor cos φ)



- Y Reduction coefficient (A)
- Maximum switching capacity on resistive DC load



- X Voltage DC
- Y Current DC
- A RXM2AB...

B RXM3AB...

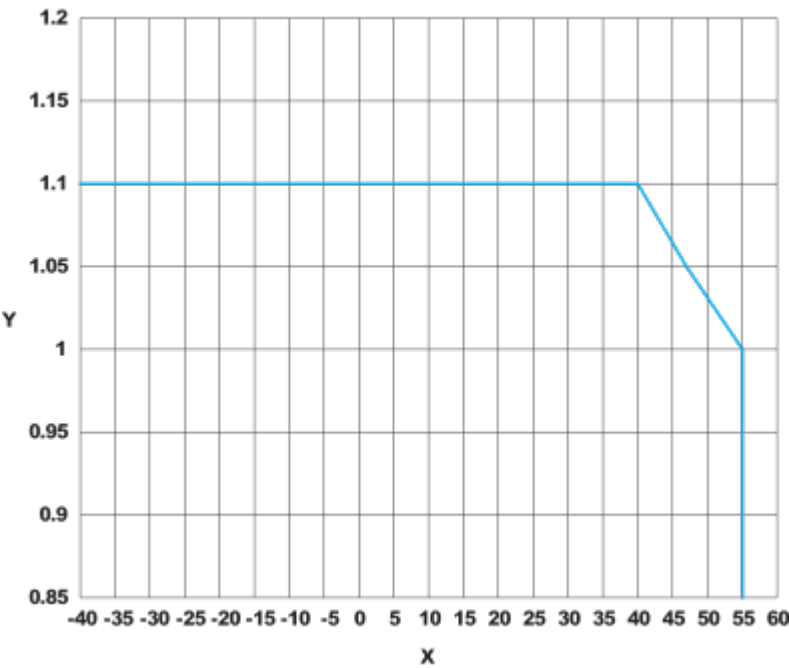
C RXM4AB...

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)