

# Product datasheet

Specifications



## Miniature plug-in relay, 6 A, 4 CO, LED, 12 V DC

Local distributor code: 389837855 RXM4AB2JD

### 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	12 V DC
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

<b>Average coil consumption in W</b>	0.9 W
<b>Drop-out voltage threshold</b>	>= 0.1 Uc
<b>Operate time</b>	20 ms
<b>Release time</b>	20 ms
<b>Average coil resistance</b>	160 Ohm at 20 °C +/- 10 %
<b>Rated operational voltage limits</b>	9.6...13.2 V DC
<b>Safety reliability data</b>	B10d = 100000
<b>Protection category</b>	RT I
<b>Test levels</b>	Level A group mounting
<b>Operating position</b>	Any position
<b>CAD overall height</b>	79 mm
<b>CAD overall depth</b>	78.45 mm
<b>Net weight</b>	0.037 kg
<b>Device presentation</b>	Complete product

## Environment

<b>Dielectric strength</b>	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
<b>Product certifications</b>	CE CSA Lloyd's UL GOST
<b>Standards</b>	CSA C22.2 No 14 EN/IEC 61810-1 UL 508
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Ambient air temperature for operation</b>	-40...55 °C
<b>Vibration resistance</b>	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
<b>IP degree of protection</b>	IP40 conforming to EN/IEC 60529
<b>Shock resistance</b>	10 gn for in operation 30 gn for not operating
<b>Pollution degree</b>	2

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Weight</b>	40.0 g
<b>Package 1 Height</b>	2.113 cm
<b>Package 1 width</b>	2.765 cm
<b>Package 1 Length</b>	4.775 cm

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>REACH free of SVHC</b>	Yes

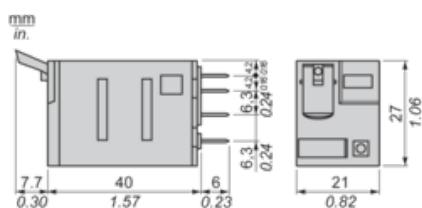
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Toxic heavy metal free</b>	Yes
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>WEEE</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Contractual warranty

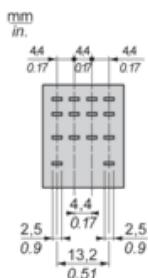
<b>Warranty</b>	18 months
-----------------	-----------

Dimensions

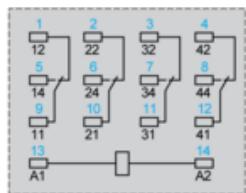
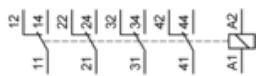
---



Pin Side View



Wiring Diagram

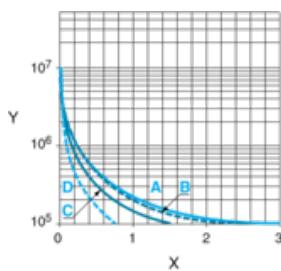


Symbols shown in blue correspond to Nema marking.

**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)

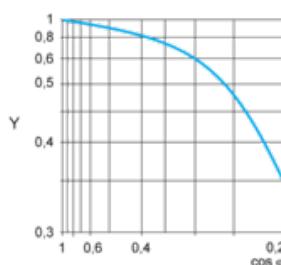
A RXM2AB...

B RXM3AB...

C RXM4AB...

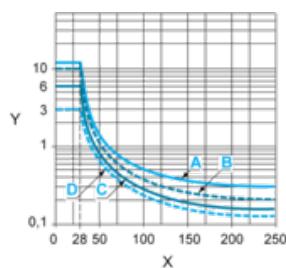
D RXM4GB...

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.