Thông số kỹ thuật





miniature plug in relay, Harmony Electromechanical Relays, 12A, 2CO, with LED, lockable test but to n, 24V DC

RXM2AB2BD

### 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	24 V DC	
Status LED	With	
Control type	Lockable test button	
Utilisation coefficient	20 %	

### Complementary

oompromentary		
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	4 kV during 1.2/50 μs	
Contacts material	AgNi	
[le] rated operational current	12 A at 28 V (DC) NO conforming to IEC 12 A at 250 V (AC) NO conforming to IEC 6 A at 28 V (DC) NC conforming to IEC 6 A at 250 V (AC) NC conforming to IEC 12 A at 28 V (DC) conforming to UL 12 A at 277 V (AC) conforming to UL	
Continuous output current	10 A	
Maximum switching voltage	250 V conforming to IEC	
resistive rated load	12 A at 250 V AC 12 A at 28 V DC	
Maximum switching capacity	3000 VA/336 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	0.9 W	
Drop-out voltage threshold	>= 0.1 Uc	

operate time	20 ms	
release time	20 ms	
average coil resistance	650 Ohm at 20 °C +/- 10 %	
Rated operational voltage limits	19.226.4 V DC	
Safety reliability data	B10d = 100000	
Protection category	RTI	
Test levels	Level A group mounting	
Operating position	Any position	
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	-4085 °C	
Ambient air temperature for operation	-4055 °C	
Vibration resistance	3 gn, amplitude = +/- 1 mm (f = 10150 Hz)5 cycles in operation 5 gn, amplitude = +/- 1 mm (f = 10150 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	3	

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.0 cm
Package 1 Width	2.8 cm
Package 1 Length	4.8 cm
Package 1 Weight	37.0 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3.0 cm
Package 2 Width	10.0 cm
Package 2 Length	12.5 cm
Package 2 Weight	396.0 g

Unit Type of Package 3	S02
Number of Units in Package 3	240
Package 3 Height	15.0 cm
Package 3 Width	30.0 cm
Package 3 Length	40.0 cm
Package 3 Weight	9.994 kg

## **Contractual warranty**

Warranty 18 months



Nhãn **Green Premium<sup>TM</sup>** là cam kết của Schneider Electric trong việc cung cấp sản phẩm với hiệu suất môi trường tốt nhất. Green Premium cam kết tuân thủ các quy định mới nhất, minh bạch về tác động môi trường, cũng như các sản phẩm tuần hoàn và CO<sub>2</sub> thấp.

Hướng dẫn đánh giá tính bền vững của sản phẩm là tài liệu kỹ thuật phổ thông giúp làm rõ các tiêu chuẩn nhãn sinh thái toàn cầu và cách diễn giải việc khai báo môi trường.

Tìm hiểu thêm về Green Premium >

Hướng dẫn đánh giá về sự bền vững của sản phẩm >





Minh bach RoHS/REACh

## Hiệu suất sức khoẻ

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

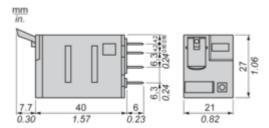
### Chứng nhận & Tiêu chuẩn

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

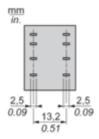
## RXM2AB2BD

**Dimensions Drawings** 

### **Dimensions**



#### Pin Side View

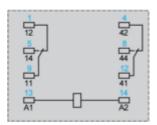


## RXM2AB2BD

Connections and Schema

### Wiring Diagram





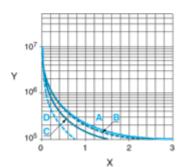
Symbols shown in blue correspond to Nema marking.

#### RXM2AB2BD

#### 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)

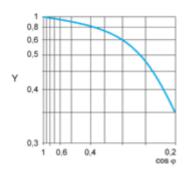
A RXM2AB\*\*\*

B RXM3AB\*\*\*

C RXM4AB\*\*\*

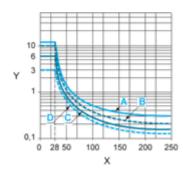
**D** RXM4GB•••

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.

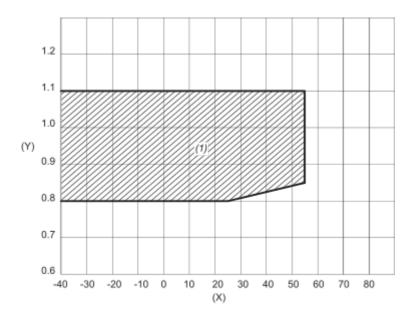
For inductive load, to increase relay life cycles, please add a proper load protection circuit (eg: RC protection/Varistor/free Wheeling diode -DC load only- ).

For low level loads (below 10mA), we recommend to use RXM\*GB series with bifurcated contacts relays instead.

RXM2AB2BD

#### **Coil Operating Range**

#### **DC Coil Operating Range VS Ambient Temperature**



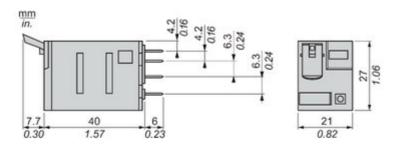
X : Ambient temperature (°C)
Y : AC coil voltage (U/Uc)

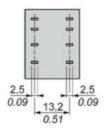
(1) Permitted operating range area

## RXM2AB2BD

**Technical Illustration** 

### **Dimensions**

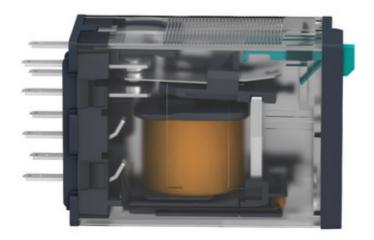




## RXM2AB2BD

Image of product / Alternate images

**Alternative** 





## RXM2AB2BD





## RXM2AB2BD





13

## RXM2AB2BD

Image of product in real life situation

