

miniature plug in relay, Harmony Electromechanical Relays, 6A, 4CO, with LED, lockable test but to n, 24V DC

RXM4AB2BD

Product availability: Stock - Normally stocked in distribution facility

#### 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	24 V DC	
Status LED	With	
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	2.5 kV 1.2/50 μs
Contacts material	AgNi
[le] rated operational current	3 A 28 V DC) NC IEC 3 A 250 V AC) NC IEC 6 A 28 V DC) NO IEC 6 A 250 V AC) NO IEC 6 A 277 V AC) UL 8 A 30 V DC) UL
Continuous output current	5 A
Maximum switching voltage	250 V IEC
resistive rated load	6 A 250 V AC 6 A 28 V DC
Maximum switching capacity	1500 VA/168 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	0.9 W
Drop-out voltage threshold	>= 0.1 Uc
operate time	20 ms
release time	20 ms
average coil resistance	650 Ohm 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
CAD overall height	3.3 in (82.8 mm)
CAD overall depth	3.16 in (80.35 mm)
Net Weight	0.082 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 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 UL 508 CSA C22.2 No 14	
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	2	

# Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
GTIN	3389119403818
Returnability	Yes
Country of origin	CN

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Package 1 Height	0.87 in (2.200 cm)	
Package 1 Width	1.10 in (2.800 cm)	
Package 1 Length	1.97 in (5.000 cm)	
Package 1 Weight	1.270 oz (36.000 g)	
Unit Type of Package 2	BB1	
Number of Units in Package 2	10	
Package 2 Height	1.18 in (3.000 cm)	
Package 2 Width	4.02 in (10.200 cm)	
Package 2 Length	4.92 in (12.500 cm)	
Package 2 Weight	13.792 oz (391.000 g)	
Unit Type of Package 3	S02	
Number of Units in Package 3	240	
Package 3 Height	5.91 in (15.000 cm)	
Package 3 Width	11.81 in (30.000 cm)	
Package 3 Length	15.75 in (40.000 cm)	
Package 3 Weight	21.740 lb(US) (9.861 kg)	

# **Contractual warranty**

Warranty 18 months

# **Environmental Data**

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

How this information helps you >

Carbon footprint (kg CO2 eq, Total Life cycle)	28
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

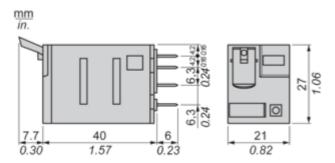
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration
California proposition 65	WARNING: This product can expose you 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

## **Use Again**

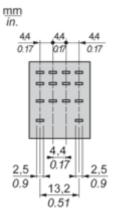
# Circularity Profile End of Life Information The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. Take-back No

#### **Dimensions Drawings**

#### **Dimensions**



Pin Side View

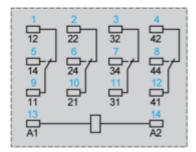


#### RXM4AB2BD

Connections and Schema

#### Wiring Diagram



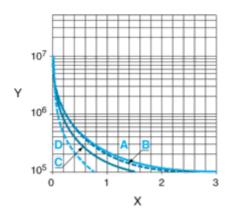


Symbols shown in blue correspond to Nema marking.

#### 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)

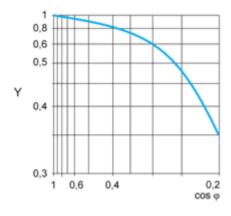
A RXM2AB...

B RXM3AB\*\*\*

C RXM4AB•••

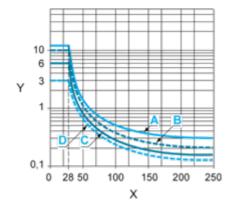
D RXM4GB\*\*\*

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



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



X Voltage DC

Y Current DC

A RXM2AB\*\*\*

## Product data sheet

#### RXM4AB2BD

B RXM3AB\*\*\*

C RXM4AB\*\*\*

D RXM4GB\*\*\*

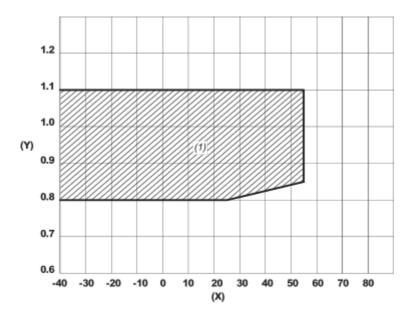
Note: These are typical curves, actual durability depends on load, environment, duty cycle, etc.

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.

#### **Coil Operating Range**

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



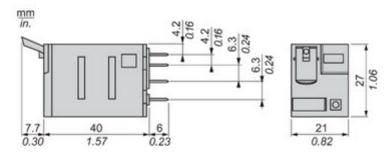
 $\mathbf{X}$ : Ambient temperature (°C)

Y: AC coil voltage (U/Uc)

(1) Permitted operating range area

#### **Technical Illustration**

#### **Dimensions**



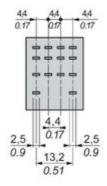


Image of product / Alternate images

#### **Alternative**





