

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	RXM series
Product or Component Type	Plug-in relay
Relay Type	Miniature relay
Contacts type and composition	4 C/O
Status LED	With
Control Type	Lockable test button
[Uc] control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	6 A
Continuous output current	5 A

Complementary

o o in promontary		
[Uimp] rated impulse withstand voltage	2.5 kV 1.2/50 μs	
[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	
Minimum switching capacity	170 mW 10 mA, 17 V	
Electrical durability	100000 cycles resistive	
Rated operational voltage limits	19.226.4 V DC	
[Ui] rated insulation voltage	250 V IEC 300 V CSA 300 V UL	
Maximum switching voltage	250 V IEC	
Drop-out voltage threshold	>= 0.1 Uc	
Load current	6 A 250 V AC 6 A 28 V DC	
Operating time	20 ms	
Maximum switching capacity	1500 VA/168 W	
Average resistance	650 Ohm 20 °C +/- 10 %	
Average coil consumption	0.9 W	
Mechanical durability	10000000 cycles	

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

Safety reliability data	B10d = 100000	
Operating rate	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load	
Utilisation coefficient	20 %	
CAD overall height	3.3 in (82.8 mm)	
CAD overall depth	3.16 in (80.35 mm)	
Reset time	20 ms	
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	
Compatibility code	RXM	
Protection category	RTI	
pollution degree	2	
Operating position	Any position	
Test levels	Level A group mounting	
Device presentation	Complete product	
Contacts material	AgNi	
Shape of pin	Flat (faston type)	
Net Weight	0.082 lb(US) (0.037 kg)	

Environment

Ambient air temperature for operation	-40131 °F (-4055 °C)	
IP degree of protection	IP40 conforming to IEC 60529	
Standards	IEC 61810-1 UL 508 CSA C22.2 No 14	
Product Certifications	UL Lloyd's CE CSA GOST IECEE CB Scheme	
Ambient Air Temperature for Storage	-40185 °F (-4085 °C)	
Vibration resistance	3 gn +/- 1 mm 10150 Hz)5 cycles in operation 5 gn +/- 1 mm 10150 Hz)5 cycles not operating	
Shock resistance	10 gnin operation 30 gnnot operating	

Ordering and shipping details

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

Packing Units

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	1.235 oz (35.000 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	13.616 oz (386.000 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



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.

Environmental Data explained >

How we assess product sustainability >

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

Use Better

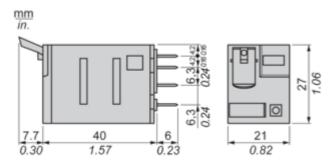
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds,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

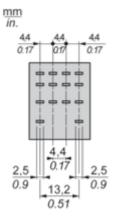
○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

Dimensions



Pin Side View

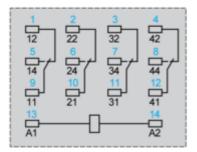


RXM4AB2BD

Connections and Schema

Wiring Diagram



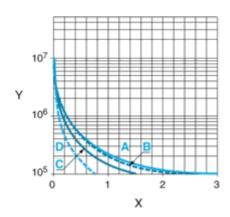


Symbols shown in blue correspond to Nema marking.

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)

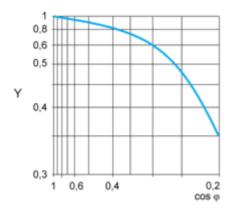
A RXM2AB...

B RXM3AB***

C RXM4AB•••

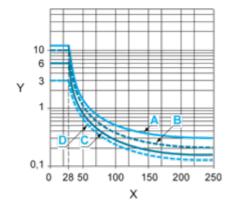
D RXM4GB***

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



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



Y Current DC

A RXM2AB•••

Product data sheet

RXM4AB2BD

B RXM3AB***

C RXM4AB***

D RXM4GB***

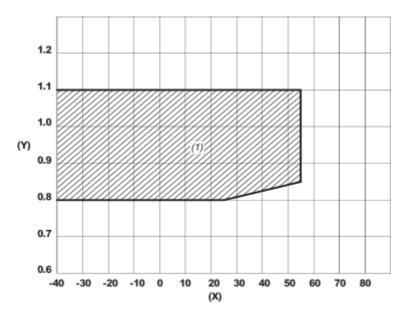
Note: These are typical curves, actual durability depends on load, environment, duty cycle, etc.

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



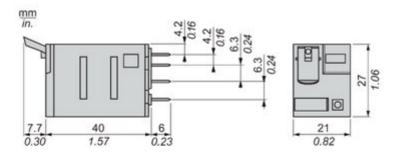
 ${\bf X}$: Ambient temperature (°C)

Y: AC coil voltage (U/Uc)

(1) Permitted operating range area

Technical Illustration

Dimensions



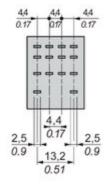


Image of product / Alternate images

Alternative





