Product datasheet

Specification





Miniature plug-in relay, 12 A, 2 CO, 230 V AC

RXM2AB1P7

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	230 V AC 50/60 Hz	
Status Led	Without	
Control Type	Lockable test button	
Utilisation Coefficient	20 %	

Complementary

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	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 In Va	1.2 at 60 Hz	
Average Consumption	1.2 VA at 60 Hz	

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	184253 V AC	
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	IEC 61810-1	
	UL 508	
	CSA C22.2 No 14	
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	ee 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	2.1 cm
Package 1 Width	2.2 cm
Package 1 Length	4.7 cm
Package 1 Weight	35 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	10
Package 2 Height	3 cm
Package 2 Width	10.2 cm
Package 2 Length	12.5 cm

Package 2 Weight	382 g
Unit Type Of Package 3	S02
Number Of Units In Package 3	240
Package 3 Height	15 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	9.695 kg

Contractual warranty

Warranty 18 months



Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ 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

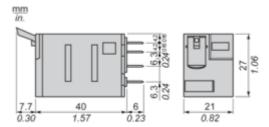
⊘	Reach Free Of Svhc	
9	Toxic Heavy Metal Free	
②	Mercury Free	
⊘	Rohs Exemption Information	Yes

Certifications & Standards

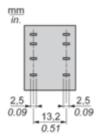
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

Dimensions Drawings

Dimensions



Pin Side View

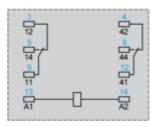


RXM2AB1P7

Connections and Schema

Wiring Diagram





Symbols shown in blue correspond to Nema marking.

Product datasheet

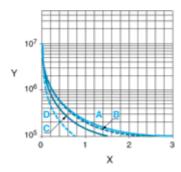
RXM2AB1P7

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)

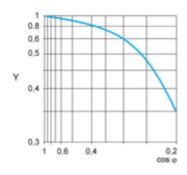
A RXM2AB***

B RXM3AB***

C RXM4AB***

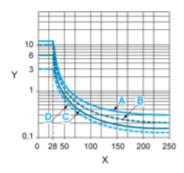
D RXM4GB•••

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•••

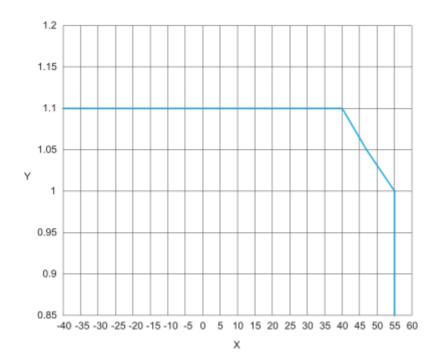
C RXM4AB•••
D RXM4GB•••

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.

AC Coil Voltage and Operating Temperature under continuous duty



X : Operating temperature (°C)Y : AC coil voltage (UC)