Disclaimer. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications



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
Continuous output current	10 A

Complementary

[Uimp] rated impulse withstand voltage	4 kV during 1.2/50 μs
[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
Minimum switching capacity	170 mW at 10 mA, 17 V
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
operate time	20 ms
average coil resistance	15000 Ohm at 20 °C +/- 15 %
Rated operational voltage limits	184253 V AC
[Ui] rated insulation voltage	250 V conforming to IEC
2-1	300 V conforming to CSA
	300 V conforming to UL
Maximum switching voltage	250 V conforming to IEC
Drop-out voltage threshold	>= 0.15 Uc
Load current	12 A at 250 V AC
	12 A at 28 V DC
Maximum switching capacity	3000 VA/336 W
Mechanical durability	10000000 cycles
Safety reliability data	B10d = 100000

Operating rate	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load	
Utilisation coefficient	20 %	
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	
Protection category	RTI	
Pollution degree	3	
Operating position	Any position	
Test levels	Level A group mounting	
Device presentation	Complete product	
Contacts material	AgNi	
Shape of pin	Flat	
Net weight	0.037 kg	

Environment

Ambient air temperature for operation	-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 Lioyd's CE CSA GOST IECEE CB Scheme	
Ambient air temperature for storage	-4085 °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	
Shock resistance	10 gn for in operation 30 gn for not operating	

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

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.

Environmental Data explained >

How we assess product sustainability >

⊘ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	34
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)
EU RoHS Directive REACh Regulation	(Product out of EU RoHS legal

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information

WEEE



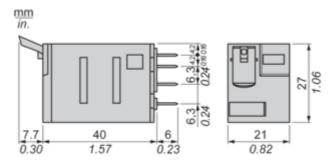
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Take-back

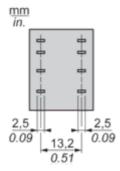
No

Dimensions Drawings

Dimensions



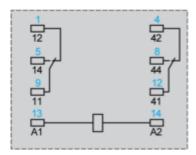
Pin Side View



Connections and Schema

Wiring Diagram



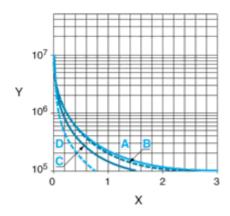


Symbols shown in blue correspond to Nema marking.

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)

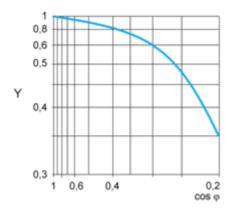
A RXM2AB...

B RXM3AB***

C RXM4AB•••

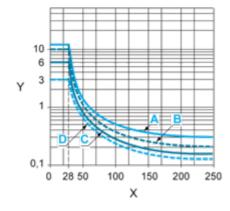
D RXM4GB***

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 datasheet

RXM2AB1P7

B RXM3AB***

C RXM4AB***

D RXM4GB***

28-Dec-2024

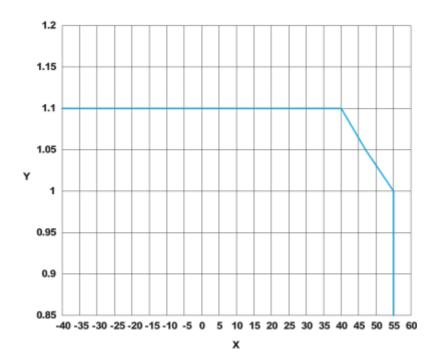
Note: These are typical curves, actual durability depends on load, environment, duty cycle, etc.

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.

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AC Coil Voltage and Operating Temperature under continuous duty



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

Technical Illustration

Dimensions

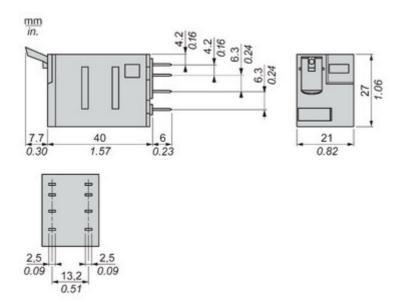


Image of product / Alternate images

Alternative







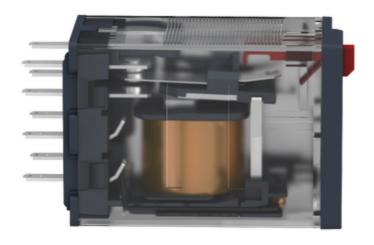




Image of product in real life situation



