

Product data sheet Characteristics

RXM4AB1E7

Harmony, Miniature plug-in relay, 6 A, 4 CO, with lockable test button, 48 V AC





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	48 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	2.5 kV during 1.2/50 µs
Contacts material	AgNi
[le] rated operational current	3 A at 28 V (DC) NC conforming to IEC 3 A at 250 V (AC) NC conforming to IEC 6 A at 28 V (DC) NO conforming to IEC 6 A at 250 V (AC) NO conforming to IEC 6 A at 277 V (AC) conforming to UL 8 A at 30 V (DC) conforming to UL
Continuous output current	5 A
Maximum switching voltage	250 V conforming to IEC
Resistive rated load	6 A at 250 V AC 6 A at 28 V DC
Maximum switching capacity	1500 VA/168 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	710 Ohm at 20 °C +/- 15 %
Rated operational voltage limits	38.452.8 V AC
Safety reliability data	B10d = 100000
Protection category	RTI
Test levels	Level A group mounting
Operating position	Any position

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.

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.

It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

CAD overall height	79 mm
CAD overall depth	78.45 mm
Net weight	0.037 kg
Device presentation	Complete product

Environment

Dielectric strength	1300 V AC between contacts with micro disconnection
Ü	2000 V AC between coil and contact with basic insulation
	2000 V AC between poles with basic insulation
Product certifications	UL[RETURN]Lloyd's[RETURN]CE[RETURN]CSA[RETURN]GOST[RETURN]IECEECB 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	2

Packing Units

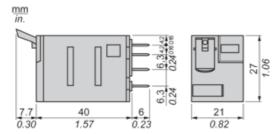
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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.100 cm
Package 1 Width	2.700 cm
Package 1 Length	4.800 cm
Package 1 Weight	35.400 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3.000 cm
Package 2 Width	10.200 cm
Package 2 Length	12.800 cm
Package 2 Weight	385.000 g
Unit Type of Package 3	S02
Number of Units in Package 3	240
Package 3 Height	15.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	9.698 kg

Offer Sustainability

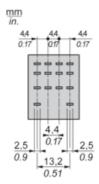
Green Premium product
☑ REACh Declaration
Yes
Pro-active compliance (Product out of EU RoHS legal scope) EPEU RoHS Declaration
Yes
Yes
☑ China RoHS Declaration
₫Yes
Product Environmental Profile

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
Contractual warranty	
Warranty	18 months

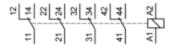
Dimensions

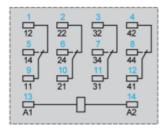


Pin Side View



Wiring Diagram





Symbols shown in blue correspond to Nema marking.

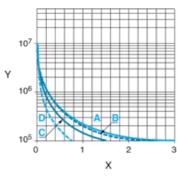
Product data sheet Performance Curves

RXM4AB1E7

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)

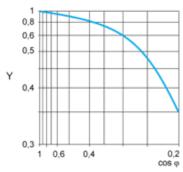
A RXM2AB•••

B RXM3AB•••

C RXM4AB***

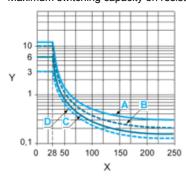
D RXM4GB•••

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•••

B RXM3AB•••

C RXM4AB•••

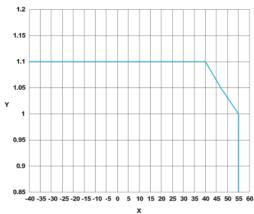
D RXM4GB•••

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)