Product datasheet

Specification





Miniature plug-in relay, 6 A, 4 CO, LED, 48 V DC

RXM4AB2ED

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 DC	
Status Led	With	
Control Type	Lockable test button	
Utilisation Coefficient	20 %	

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	0.9 W	
Drop-Out Voltage Threshold	>= 0.1 Uc	

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

Operate Time	20 ms	
Release Time	20 ms	
Average Coil Resistance	2560 Ohm at 20 °C +/- 10 %	
Rated Operational Voltage Limits	38.452.8 V DC	
Safety Reliability Data	B10d = 100000	
Protection Category	RT I	
Test Levels	Level A group mounting	
Operating Position	Any position	
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 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	CSA C22.2 No 14 UL 508 IEC 61810-1	
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	Of Protection IP40 conforming to IEC 60529	
Shock Resistance	Resistance 10 gn for in operation 30 gn for not operating	
Pollution Degree	2	

Packing Units

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	35.000 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	10
Package 2 Height	3.100 cm
Package 2 Width	10.300 cm

Package 2 Length	12.600 cm
Package 2 Weight	386.000 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	9.752 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

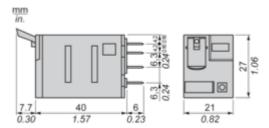
Ø	Reach Free Of Svhc	
⊘	Toxic Heavy Metal Free	
⊘	Mercury Free	
⊘	Rohs Exemption Information	Yes

Certifications & Standards

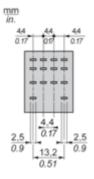
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following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

Dimensions Drawings

Dimensions



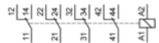
Pin Side View

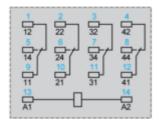


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Connections and Schema

Wiring Diagram





Symbols shown in blue correspond to Nema marking.

Product datasheet

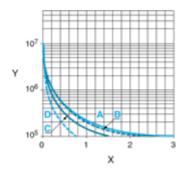
RXM4AB2ED

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)

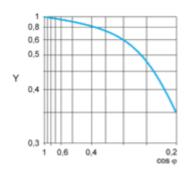
A RXM2AB***

B RXM3AB***

C RXM4AB***

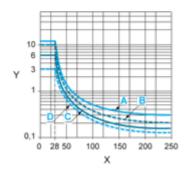
D RXM4GB•••

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•••

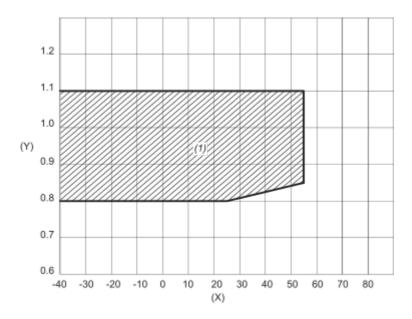
Note: These are typical curves, actual durability depends on load, environment, duty cycle, etc.

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.

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