# **Product datasheet**

Specification





# Miniature plug-in relay, 12 A, 2 CO, LED, 48 V DC

Local distributor code: 389837460

RXM2AB2ED

EAN Code: 3389119403498

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

## Complementary

J	
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	0.9 W
Drop-Out Voltage Threshold	>= 0.1 Uc

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	RTI	
Test Levels	Level A group mounting	
Operating Position	Any position	
Cad Overall Height	82.8 mm	
Cad Overall Depth	80.35 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
	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	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	2.7 cm
Package 1 Length	4.6 cm
Package 1 Weight	37 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	10
Package 2 Height	3 cm
Package 2 Width	10.3 cm

Package 2 Length	12.5 cm
Package 2 Weight	390 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	9.841 kg

# **Contractual warranty**

Warranty 18 months



**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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

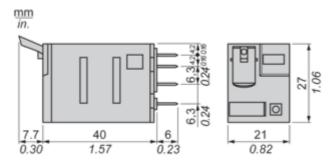
<b>⊘</b>	Reach Free Of Svhc	
<b>⊘</b>	Toxic Heavy Metal Free	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes

#### **Certifications & Standards**

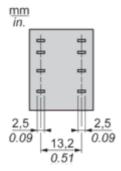
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
<b>Environmental Disclosure</b>	Product Environmental Profile
Weee	The product must be disposed on European Union markets following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

#### **Dimensions Drawings**

#### **Dimensions**



Pin Side View

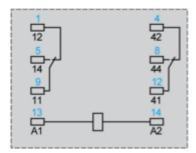


## RXM2AB2ED

Connections and Schema

#### Wiring Diagram



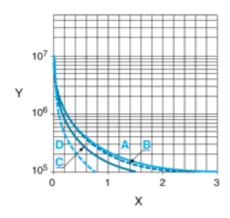


Symbols shown in blue correspond to Nema marking.

#### 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)

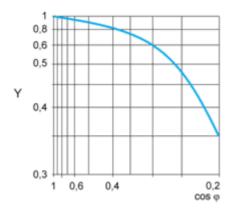
A RXM2AB...

B RXM3AB\*\*\*

C RXM4AB•••

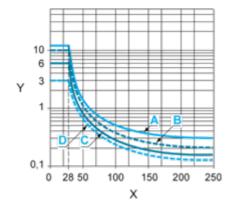
D RXM4GB\*\*\*

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**

#### RXM2AB2ED

B RXM3AB\*\*\*

C RXM4AB\*\*\*

D RXM4GB\*\*\*

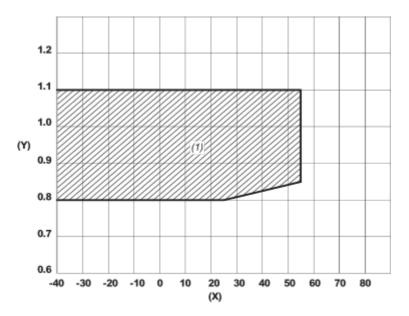
Note: These are typical curves, actual durability depends on load, environment, duty cycle, etc.

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