

# Product data sheet

Specifications



miniature plug in relay, Harmony Electromechanical Relays, 10A, 2CO, with LED, with lockable test button, 120V AC

RXM2CB2F7

⚠ Discontinued on: Aug 15, 2024

⚠ Discontinued

## Main

Range of product	Harmony Electromechanical Relays
Series name	Miniature
Product or component type	Plug-in relay
Device short name	RXM
Utilisation coefficient	20 %
Sale per indivisible quantity	10

## Complementary

Contacts type and composition	2 C/O
Contact operation	Standard
[Uc] control circuit voltage	120 V AC 50/60 Hz
[Ithe] conventional enclosed thermal current	10 A at -40...55 °C
status LED	With
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to UL
[Uimp] rated impulse withstand voltage	3.6 kV during 1.2/50 µs conforming to IEC 61810-7
Contacts material	Silver alloy (Ag/Ni)
[Ie] rated operational current	10 A (AC-1/DC-1) conforming to UL 10 A (AC-1/DC-1) NO conforming to IEC 5 A (AC-1/DC-1) NC conforming to IEC
minimum switching current	10 mA
Maximum switching voltage	250 V AC 125 V DC
Minimum switching voltage	17 V
Load current	10 A at 250 V AC 10 A at 30 V DC
Maximum switching capacity	2500 VA AC 300 W DC
Minimum switching capacity	170 mW
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	1.9 AC
Drop-out voltage threshold	>= 0.15 U <sub>c</sub> AC
Operating time	20 ms
Average resistance	4500 Ohm network: AC at 20 °C +/- 15 %
Rated operational voltage limits	96...132 V AC
Protection category	RT I
Test levels	Level A group mounting
Operating position	Any position
CAD overall width	21 mm
CAD overall height	27 mm
CAD overall depth	55 mm
Net weight	0.035 kg
Dielectric strength	1800 V AC between coil and contact 1550 V AC between poles 1000 V AC between contacts
Safety reliability data	B10d = 100000

## Environment

Product certifications	GOST UL
Standards	IEC 61810-1 UL 508
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-40...55 °C
Vibration resistance	3 gn, amplitude = +/- 1 mm (f = 10...55 Hz) without clip conforming to IEC 60068-2-6 5 gn, amplitude = +/- 1 mm (f = 10...55 Hz) with clip conforming to IEC 60068-2-6
IP degree of protection	IP40 conforming to IEC 60529
Shock resistance	10 gn (duration = 11 ms) for opening conforming to IEC 60068-2-27 10 gn (duration = 11 ms) for closing conforming to IEC 60068-2-27

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.2 cm
Package 1 Width	1.03 cm
Package 1 Length	1.26 cm
Package 1 Weight	4.0 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3.0 cm
Package 2 Width	10.3 cm
Package 2 Length	12.7 cm
Package 2 Weight	350.0 g
Unit Type of Package 3	CAR

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<b>Number of Units in Package 3</b>	270
<b>Package 3 Height</b>	15.0 cm
<b>Package 3 Width</b>	29.9 cm
<b>Package 3 Length</b>	39.8 cm
<b>Package 3 Weight</b>	10.1 kg

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## **Contractual warranty**

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<b>Warranty (in months)</b>	18
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## 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 >](#)

### Use Better



#### Materials and Substances

Packaging made with recycled cardboard

Yes

Packaging without single use plastic

Yes

EU RoHS Directive

[Compliant](#)

REACH Regulation

[Free of Substances of Very High Concern above the threshold](#)

### Use Longer



#### Lifetime extension

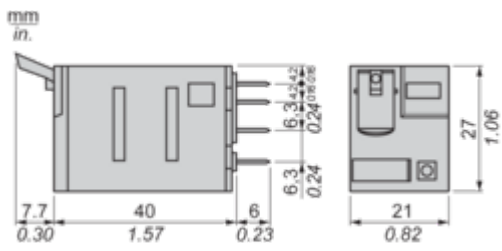
Repair

No

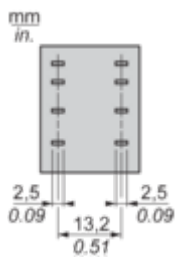
Dimensions Drawings

Dimensions

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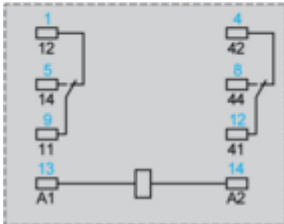
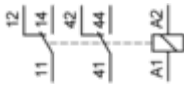
Pin Side View



Connections and Schema

Wiring Diagram

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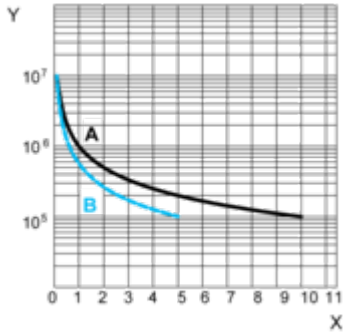
Symbols shown in blue correspond to Nema marking.

Performance Curves

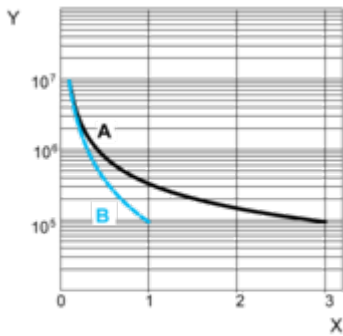
Electrical Durability of Contacts

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Resistive load



X : Contact current (A)  
Y : Durability (Number of operating cycles)  
A : RXM 2CB...  
B : RXM 4CB...  
Inductive load

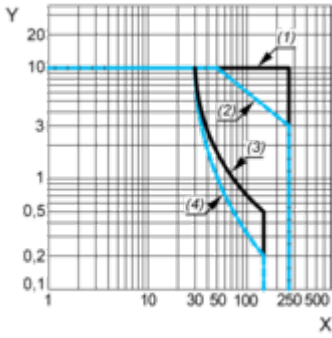


X : Contact current (A)  
Y : Durability (Number of operating cycles)  
A : RXM 2CB...  
B : RXM 4CB...  
**Note** : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

**Maximum Switching Capacity on Resistive and Inductive Loads**

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RXM 2CB...



X : Switching Voltage (V)

Y : Switching current (A)

(1) AC resistive load

(2) AC inductive load (cos phi) = 0.4

(3) DC resistive load

(4) DC inductive load (T0.95 = 6 P)

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

Technical Illustration

Dimensions

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