

# Product datasheet

Specifications



Harmony, Miniature plug-in relay pre-assembled, 6 A, 4 CO, with LED, with lockable test button, mixed terminals socket, 24 V DC

RXM4AB2BDPVM

EAN Code: 3606489563097

## Main

Range of product	Harmony Electromechanical Relays
Series name	RXM series
Product or component type	Pre-assembled plug-in relay with socket
Relay type	Miniature relay
Contacts type and composition	4 C/O
status LED	With
Control type	Lockable test button
[Uc] control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	6 A
Continuous output current	5 A

## Complementary

[Uimp] rated impulse withstand voltage	2.5 kV during 1.2/50 $\mu$ s
[Ie] 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
minimum switching current	10 mA
Minimum switching voltage	17 V
Minimum switching capacity	170 mW at 10 mA, 17 V
Electrical durability	100000 cycles for resistive load
Rated operational voltage limits	19.2...26.4 V DC
[Ui] rated insulation voltage	250 V conforming to IEC
Maximum switching voltage	250 V
Drop-out voltage threshold	$\geq 0.1 U_c$ DC
Load current	6 A at 250 V AC 6 A at 28 V DC
Operating time	20 ms
Maximum switching capacity	1500 VA/168 W AC/DC
Average resistance	650 Ohm at 20 °C +/- 10 %
Average coil consumption	0.9 W, DC

<b>Mechanical durability</b>	10000000 cycles
<b>Safety reliability data</b>	B10d = 100000
<b>Operating rate</b>	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load
<b>Utilisation coefficient</b>	20 %
<b>CAD overall width</b>	26.9 mm
<b>CAD overall height</b>	79 mm
<b>CAD overall depth</b>	78.45 mm
<b>torque value</b>	1 N.m
<b>Reset time</b>	20 ms
<b>Contact terminal arrangement</b>	Mixed
<b>Connections - terminals</b>	Connector, 1 x 0.25...1 x 2.5 mm <sup>2</sup> (AWG 22...AWG 14) flexible with cable end Connector, 2 x 0.25...2 x 1 mm <sup>2</sup> (AWG 22...AWG 17) flexible with cable end Connector, 1 x 0.5...1 x 2.5 mm <sup>2</sup> (AWG 20...AWG 14) solid without cable end Connector, 2 x 0.5...2 x 1.5 mm <sup>2</sup> (AWG 20...AWG 16) solid without cable end
<b>Dielectric strength</b>	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
<b>Compatibility code</b>	RXM
<b>Protection category</b>	RT I
<b>Pollution degree</b>	2
<b>Operating position</b>	Any position
<b>Test levels</b>	Level A group mounting
<b>Device presentation</b>	Complete product
<b>Sale per indivisible quantity</b>	30
<b>Contacts material</b>	AgNi
<b>Shape of pin</b>	Flat (faston type)
<b>Net weight</b>	0.096 kg

## Environment

<b>Ambient air temperature for operation</b>	-40...55 °C
<b>IP degree of protection</b>	IP20 conforming to IEC 60529
<b>Standards</b>	UL 508 IEC 61810-1 CSA C22.2 No 14 IEC 61984
<b>Product certifications</b>	UL Lloyd's CE CSA GOST IECEE CB Scheme
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Vibration resistance</b>	3 gn, amplitude = +/- 1 mm (f = 10...150 Hz)5 cycles in operation 5 gn, amplitude = +/- 1 mm (f = 10...150 Hz)5 cycles not operating
<b>Shock resistance</b>	10 gn for in operation 30 gn for not operating

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	7.9 cm
<b>Package 1 Width</b>	2.69 cm
<b>Package 1 Length</b>	7.845 cm
<b>Package 1 Weight</b>	99.0 g
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	30
<b>Package 2 Height</b>	25.0 cm
<b>Package 2 Width</b>	10.0 cm
<b>Package 2 Length</b>	30.0 cm
<b>Package 2 Weight</b>	3.116 kg
<b>Unit Type of Package 3</b>	S03
<b>Number of Units in Package 3</b>	60
<b>Package 3 Height</b>	30.0 cm
<b>Package 3 Width</b>	30.0 cm
<b>Package 3 Length</b>	40.0 cm
<b>Package 3 Weight</b>	7.13 kg

## Logistical informations

<b>Country of origin</b>	ID
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## Contractual warranty

<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 >](#)

### Environmental footprint

Total lifecycle Carbon footprint 16

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

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)

REACH Regulation [REACH Declaration](#)

## Use Again

### Repack and remanufacture

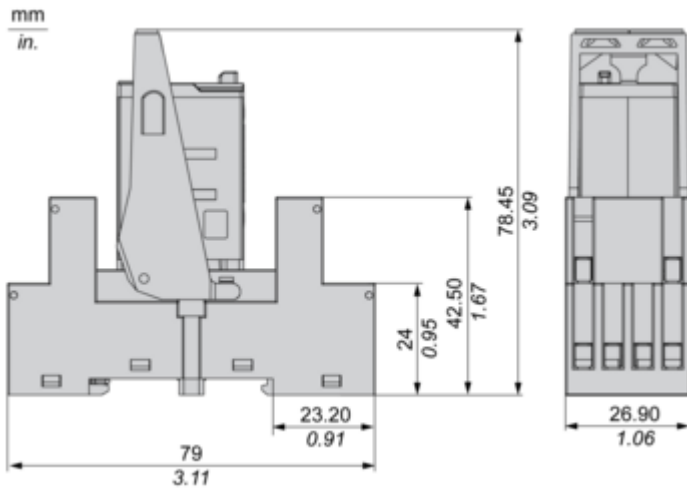
End of life manual availability [End of Life Information](#)

Take-back No

Dimensions Drawings

Dimensions

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Connections and Schema

Wiring Diagram

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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 φ)



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- ).

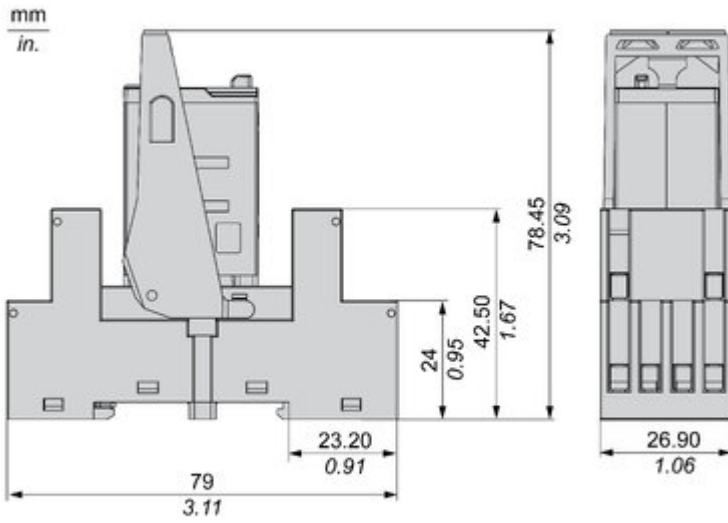
For low level loads (below 10mA), we recommend to use RXM\*GB series with bifurcated contacts relays instead.



Technical Illustration

Dimensions

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Offer Marketing Illustration

Product benefits / Features

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### Features

#### Harmony RXMAB Relay



-  Pluggable relay module for easy replacement and retrofitting of relays
-  Conforms to international standards: IEC, CE, UL, CSA, EAC, Lloyd's, RoHS and REACH
-  Save time and cost with pre-assembled relays and push-in sockets
-  Add-on protection modules and timer relay for flexibility

Offer Marketing Illustration

Product benefits / Features

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## Technical Benefits

### Harmony RXMAB Relay

RXM\*AB sockets:

- Mixed or separate contact arrangement
- Push-in, screw clamp or screw connector terminal

Plastic or metal maintaining clamp to protect against vibration

Push button (Blue for DC, Red for AC) and lockable test button for contact testing

Mechanical indicator for relay contact status

RXM\*AB relays:

- 2CO-12A, 3CO-10A, 4CO-6A
- 12-220VDC, 24-240VAC

"Power On" LED for relay status

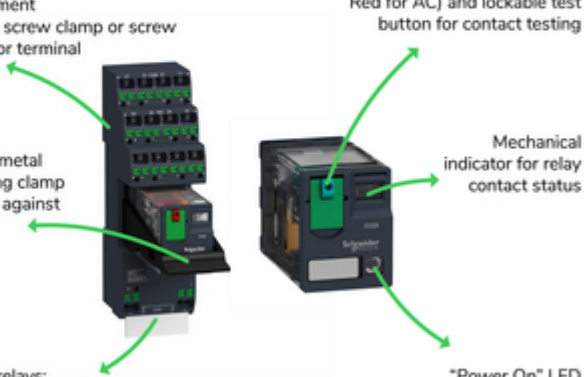


Image of product / Alternate images

Alternative

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