# Product datasheet
## Characteristics

# RXM4LB1BD
## Miniature plug-in relay, 3 A, 4 CO, without LED, 24 V DC

Green Premium™

Price* : 6.10 USD


## Main

| | |
|---|---|
| Range of product | Harmony Electromechanical Relays |
| Series name | Miniature |
| Product or component type | Plug-in relay |
| Device short name | RXM |
| Coil interference suppression | Without |
| Utilisation coefficient | 20 % |
| Sale per indivisible quantity | 10 |

## Complementary

| | |
|---|---|
| Contacts type and composition | 4 C/O |
| Contact operation | Standard |
| [Uc] control circuit voltage | 24 V DC |
| [Ithe] conventional enclosed thermal current | 3 A at -40…55 °C |
| Status LED | Without |
| Control type | Without push-button |
| [Ui] rated insulation voltage | 250 V conforming to IEC |
| [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 | 3 A (AC-1/DC-1) NO conforming to IEC<br>1.5 A (AC-1/DC-1) NC conforming to IEC |
| Minimum switching current | 10 mA |
| Maximum switching voltage | 250 V AC<br>250 V DC |
| Minimum switching voltage | 17 V |
| Load current | 3 A at 250 V AC<br>3 A at 28 V DC |

* Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

Disclaimer: 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

| | |
|---|---|
| Maximum switching capacity | 750 VA AC<br>84 W DC |
| Minimum switching capacity | 170 mW |
| Operating rate | <= 1200 cycles/hour under load<br><= 18000 cycles/hour no-load |
| Mechanical durability | 10000000 cycles |
| Electrical durability | 100000 cycles for resistive load |
| Average coil consumption | 0.9 W, DC |
| Drop-out voltage threshold | >= 0.1 Uc DC |
| Operating time | 20 ms between coil de-energisation and making of the Off-delay contact<br>20 ms between coil energisation and making of the On-delay contact |
| Average resistance | 630 Ohm network: DC at 20 °C +/- 10 % |
| Rated operational voltage limits | 19.2...26.4 V DC |
| 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 | 46 mm |
| Net weight | 0.033 kg |
| Dielectric strength | 2000 V AC between coil and contact<br>2000 V AC between poles<br>1000 V AC between contacts |
| Safety reliability data | B10d = 100000 |

## Environment

| | |
|---|---|
| Standards | CE<br>EN/IEC 61810-1 (iss. 2) |
| Ambient air temperature for storage | -40…85 °C |
| Ambient air temperature for operation | -40…55 °C |
| Vibration resistance | 3 gn, amplitude = +/- 1 mm (f = 10…50 Hz)operating conforming to EN/IEC 60068-2-6<br>6 gn, amplitude = +/- 1 mm (f = 10…50 Hz)not operating conforming to EN/IEC 60068-2-6 |
| IP degree of protection | IP40 conforming to EN/IEC 60529 |
| Shock resistance | 10 gn for opening conforming to EN/IEC 60068-2-27<br>5 gn for closing conforming to EN/IEC 60068-2-27 |

## Packing Units

| | |
|---|---|
| Package 1 Weight | 0.037 kg |
| Package 1 Height | 0.410 dm |
| Package 1 width | 0.210 dm |
| Package 1 Length | 0.280 dm |

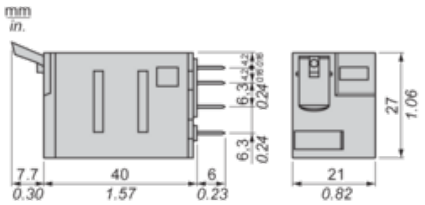
## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Green Premium product |
| REACh Regulation | REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope)<br>EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| 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 |

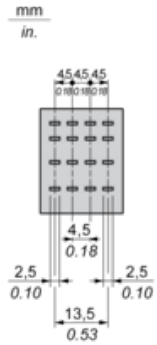
## Contractual warranty

| | |
|---|---|
| Warranty | 18 months |

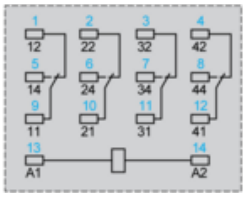
## Dimensions




Pin Side View



## Wiring Diagram

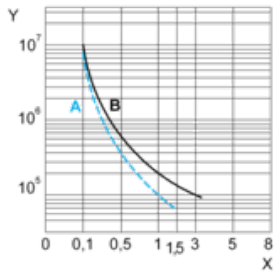

Symbols shown in blue correspond to Nema marking.

# RXM4LB1BD

## Electrical Durability of Contacts

### Durability (inductive load) = durability (resistive load) x reduction coefficient.

For 4 Poles Relay




X : Contact current (A)

Y : Durability (Number of operating cycles)

A : Inductive load

B : Resistive load

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

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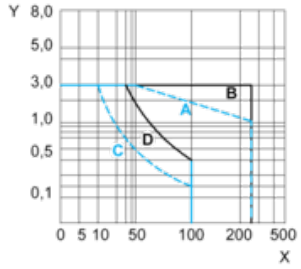
## Maximum Switching Capacity

For 4 Poles Relay




X : Contact voltage (v)
Y : Contact current (A)
A : Inductive AC load
B : Resistive AC load
C : Inductive DC load
D : Resistive DC load
Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.