

# Product datasheet

Specifications



Harmony. Miniature plug-in relay.  
10 A. 3 CO. with lockable test  
button. 24 V DC

RXM3AB1BD

Price: 217.46 ZAR

## 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 | 3 C/O                            |
| [Uc] Control Circuit Voltage  | 24 V DC                          |
| Status Led                    | Without                          |
| Control Type                  | Lockable test button             |
| Utilisation Coefficient       | 20 %                             |

## Complementary

|                                        |                                                                                                                                                                                                                                                   |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shape Of Pin                           | Flat                                                                                                                                                                                                                                              |
| [Ui] Rated Insulation Voltage          | 250 V conforming to IEC<br>300 V conforming to CSA<br>300 V conforming to UL                                                                                                                                                                      |
| [Uimp] Rated Impulse Withstand Voltage | 4 kV during 1.2/50 µs                                                                                                                                                                                                                             |
| Contacts Material                      | AgNi                                                                                                                                                                                                                                              |
| [Ie] Rated Operational Current         | 10 A at 28 V (DC) NO conforming to IEC<br>10 A at 250 V (AC) NO conforming to IEC<br>5 A at 28 V (DC) NC conforming to IEC<br>5 A at 250 V (AC) NC conforming to IEC<br>10 A at 30 V (DC) conforming to UL<br>10 A at 277 V (AC) conforming to UL |
| Continuous Output Current              | 6.7 A                                                                                                                                                                                                                                             |
| Maximum Switching Voltage              | 250 V conforming to IEC                                                                                                                                                                                                                           |
| Resistive Rated Load                   | 10 A at 250 V AC<br>10 A at 28 V DC                                                                                                                                                                                                               |
| Maximum Switching Capacity             | 2500 VA/280 W                                                                                                                                                                                                                                     |
| Minimum Switching Capacity             | 170 mW at 10 mA, 17 V                                                                                                                                                                                                                             |
| 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                                                                                                                                                                                                                                             |
| Drop-Out Voltage Threshold             | >= 0.1 Uc                                                                                                                                                                                                                                         |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

|                                  |                           |
|----------------------------------|---------------------------|
| Operate Time                     | 20 ms                     |
| Release Time                     | 20 ms                     |
| Average Coil Resistance          | 650 Ohm at 20 °C +/- 10 % |
| Rated Operational Voltage Limits | 19.2...26.4 V DC          |
| Safety Reliability Data          | B10d = 100000             |
| Protection Category              | RT I                      |
| 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<br>2000 V AC between coil and contact<br>2000 V AC between poles                    |
| Product Certifications                | UL<br>Lloyd's<br>CE<br>CSA<br>GOST<br>IECEE CB Scheme                                                                                   |
| Standards                             | IEC 61810-1<br>CSA C22.2 No 14<br>UL 508                                                                                                |
| 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...150 Hz)5 cycles in operation<br>5 gn, amplitude = +/- 1 mm (f = 10...150 Hz)5 cycles not operating |
| Ip Degree Of Protection               | IP40 conforming to IEC 60529                                                                                                            |
| Shock Resistance                      | 10 gn for in operation<br>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 cm   |
| Package 1 Width              | 2.5 cm |
| Package 1 Length             | 5 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 cm  |

|                              |          |
|------------------------------|----------|
| Package 2 Length             | 12.5 cm  |
| Package 2 Weight             | 398 g    |
| Unit Type Of Package 3       | S02      |
| Number Of Units In Package 3 | 220      |
| Package 3 Height             | 15 cm    |
| Package 3 Width              | 30 cm    |
| Package 3 Length             | 40 cm    |
| Package 3 Weight             | 9.005 kg |

## Contractual warranty

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

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class 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.

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[Guide to assess a product’s sustainability >](#)



Transparency   RoHS/REACH

## Well-being performance

✓

Reach Free Of Svhc

✓

RoHS Exemption Information

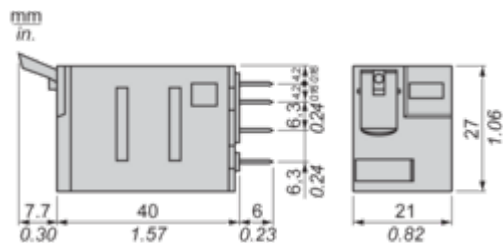
Yes

## Certifications & Standards

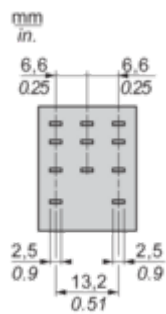
|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|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

Dimensions Drawings

Dimensions

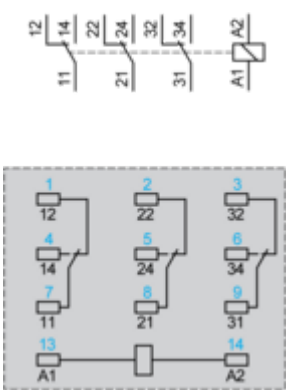


Pin Side View



Connections and Schema

Wiring Diagram

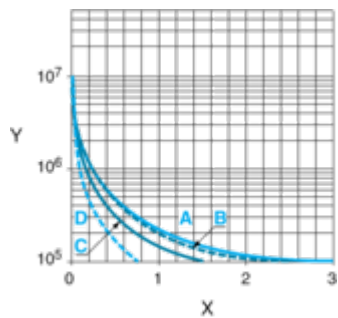


Symbols shown in blue correspond to Nema marking.

Performance Curves

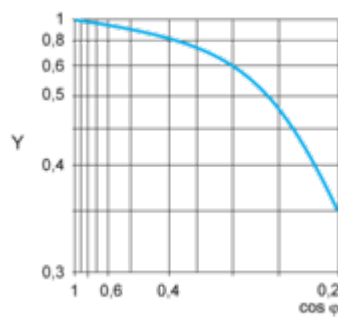
Electrical Durability of Contacts

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

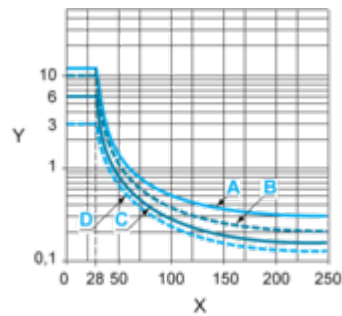


X Switching capacity (kVA)  
Y Durability (Number of operating cycles)  
A RXM2AB...  
B RXM3AB...  
C RXM4AB...  
D RXM4GB...

Reduction coefficient for inductive AC load (depending on power factor cos 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...

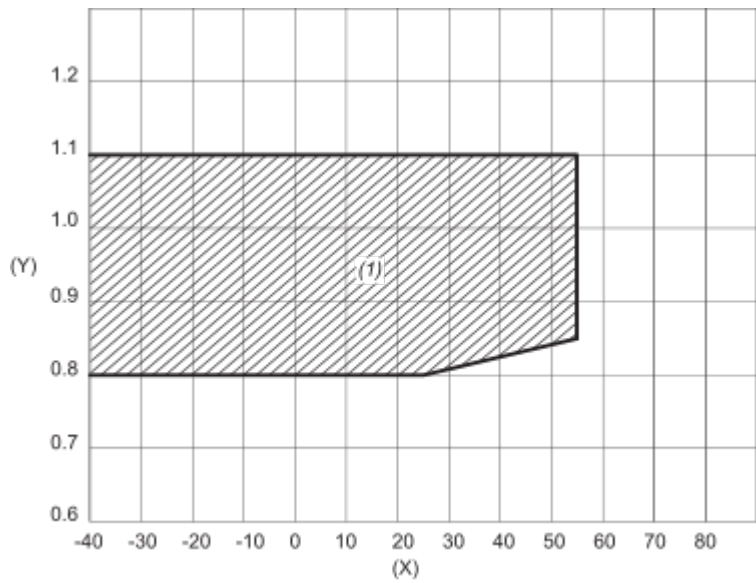
**Note :** These are typical curves, actual durability depends on load, environment, duty cycle, etc.  
For inductive load, to increase relay life cycles, please add a proper load protection circuit (eg: RC protection/Varistor/ free Wheeling diode -DC load only- ).  
For low level loads (below 10mA), we recommend to use RXM\*GB series with bifurcated contacts relays instead.





Coil Operating Range

DC Coil Operating Range VS Ambient Temperature



X : Ambient temperature (°C)  
Y : AC coil voltage (U/Uc)  
(1) Permitted operating range area