

# Product datasheet

Specifications



Harmony. Miniature plug-in relay.  
6 A. 4 CO. with LED. with lockable  
test button. 48 V AC

RXM4AB2E7

Price: 248.26 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 | 4 C/O                            |
| [Uc] Control Circuit Voltage  | 48 V AC 50/60 Hz                 |
| Status Led                    | With                             |
| 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 | 2.5 kV during 1.2/50 µs                                                                                                                                                                                                                       |
| Contacts Material                      | AgNi                                                                                                                                                                                                                                          |
| [Ie] Rated Operational Current         | 3 A at 28 V (DC) NC conforming to IEC<br>3 A at 250 V (AC) NC conforming to IEC<br>6 A at 28 V (DC) NO conforming to IEC<br>6 A at 250 V (AC) NO conforming to IEC<br>6 A at 277 V (AC) conforming to UL<br>8 A at 30 V (DC) conforming to UL |
| Continuous Output Current              | 5 A                                                                                                                                                                                                                                           |
| Maximum Switching Voltage              | 250 V conforming to IEC                                                                                                                                                                                                                       |
| Resistive Rated Load                   | 6 A at 250 V AC<br>6 A at 28 V DC                                                                                                                                                                                                             |
| Maximum Switching Capacity             | 1500 VA/168 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 In Va         | 1.2 at 60 Hz                                                                                                                                                                                                                                  |
| Average Consumption                    | 1.2 VA at 60 Hz                                                                                                                                                                                                                               |

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

|                                  |                           |
|----------------------------------|---------------------------|
| Drop-Out Voltage Threshold       | >= 0.15 Uc                |
| Operate Time                     | 20 ms                     |
| Release Time                     | 20 ms                     |
| Average Coil Resistance          | 710 Ohm at 20 °C +/- 15 % |
| Rated Operational Voltage Limits | 38.4...52.8 V AC          |
| 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 with basic insulation<br>2000 V AC between poles with basic insulation |
| Product Certifications                | UL<br>Lloyd's<br>CE<br>CSA<br>GOST<br>IECEE CB Scheme                                                                                                            |
| Standards                             | CSA C22.2 No 14<br>UL 508<br>IEC 61810-1                                                                                                                         |
| 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             | 2.000 cm |
| Package 1 Width              | 2.200 cm |
| Package 1 Length             | 4.300 cm |
| Package 1 Weight             | 36.000 g |
| Unit Type Of Package 2       | BB1      |
| Number Of Units In Package 2 | 10       |
| Package 2 Height             | 3.000 cm |

|                              |           |
|------------------------------|-----------|
| Package 2 Width              | 10.300 cm |
| Package 2 Length             | 12.800 cm |
| Package 2 Weight             | 391.000 g |
| Unit Type Of Package 3       | S02       |
| Number Of Units In Package 3 | 240       |
| Package 3 Height             | 15.000 cm |
| Package 3 Width              | 30.000 cm |
| Package 3 Length             | 40.000 cm |
| Package 3 Weight             | 9.842 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.

[Learn more about Green Premium >](#)

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



Transparency   RoHS/REACH

## Well-being performance

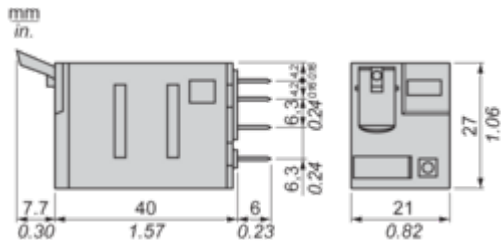
|   |                            |     |
|---|----------------------------|-----|
| ✓ | Reach Free Of Svhc         |     |
| ✓ | Toxic Heavy Metal Free     |     |
| ✓ | Mercury Free               |     |
| ✓ | Rohs Exemption Information | Yes |

## Certifications & Standards

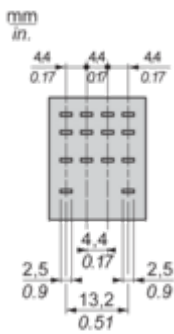
|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 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

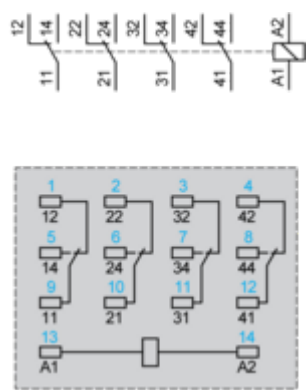


### Pin Side View



Connections and Schema

Wiring Diagram

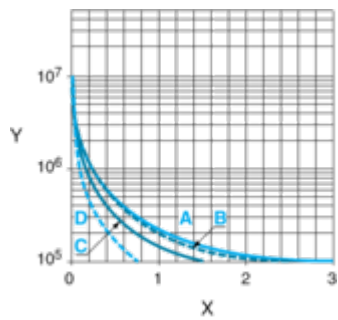


Symbols shown in blue correspond to Nema marking.

Performance Curves

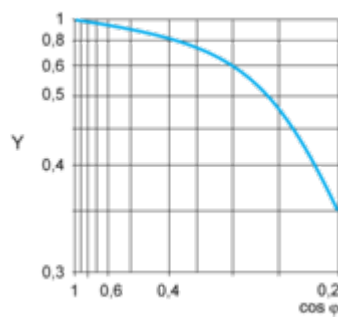
Electrical Durability of Contacts

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

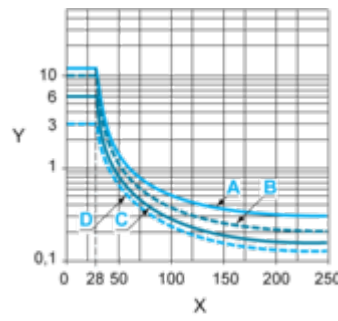


X Switching capacity (kVA)  
Y Durability (Number of operating cycles)  
A RXM2AB...  
B RXM3AB...  
C RXM4AB...  
D RXM4GB...

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



Y Reduction coefficient (A)  
Maximum switching capacity on resistive DC load



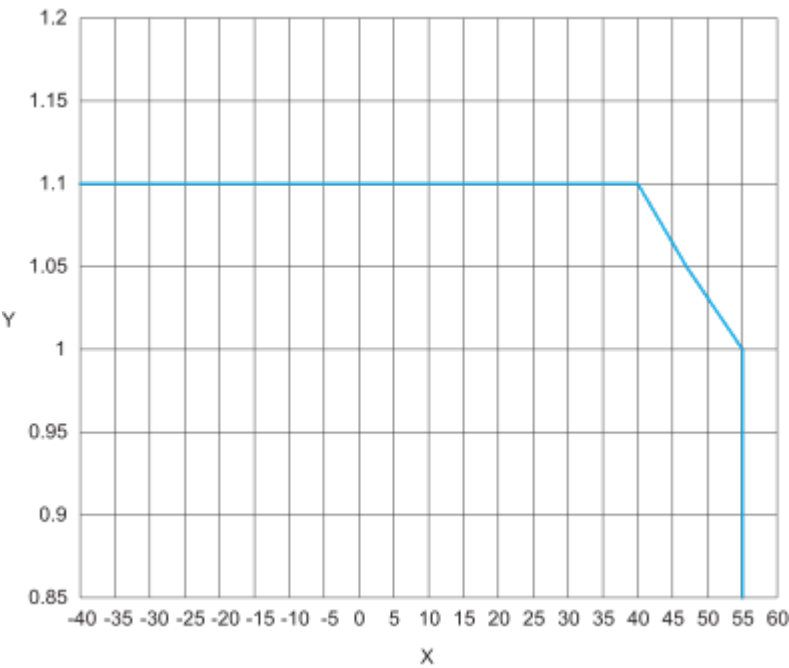
X Voltage DC  
Y Current DC  
A RXM2AB...  
B RXM3AB...  
C RXM4AB...  
D RXM4GB...

**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.





AC Coil Voltage and Operating Temperature under continuous duty



X : Operating temperature (°C)

Y : AC coil voltage (UC)