

# Product data sheet

Specifications



miniature plug in relay, Harmony Electromechanical Relays, 12A, 2CO, with LED, with lockable test button, flat (faston type), 230V AC

RXM2AB2P7

## Main

|  |                                  |
|--|----------------------------------|
| Range of product                             | Harmony Electromechanical Relays |
| Series name                                  | RXM series                       |
| Product or component type                    | Plug-in relay                    |
| Relay type                                   | Miniature relay                  |
| Contacts type and composition                | 2 C/O                            |
| status LED                                   | With                             |
| Control type                                 | Lockable test button             |
| [Uc] control circuit voltage                 | 230 V AC 50/60 Hz                |
| [Ithe] conventional enclosed thermal current | 12 A                             |
| Continuous output current                    | 10 A                             |

## Complementary

|                                  |  |
|----------------------------------|--|
| [Ui] rated insulation voltage    | 250 V conforming to IEC<br>300 V conforming to CSA<br>300 V conforming to UL |
| Minimum switching capacity       | 170 mW at 10 mA, 17 V  |
| Electrical durability            | 100000 cycles for resistive load   |
| Average coil consumption in VA   | 1.2 at 60 Hz   |
| Rated operational voltage limits | 184...253 V AC   |
| Average consumption              | 1.2 VA at 60 Hz  |
| Maximum switching voltage        | 250 V conforming to IEC  |
| Drop-out voltage threshold       | $\geq 0.15 U_c$  |
| Load current                     | 12 A at 250 V AC<br>12 A at 28 V DC  |
| Operating time                   | 20 ms  |
| Maximum switching capacity       | 3000 VA/336 W  |
| Average resistance               | 15000 Ohm at 20 °C +/- 15 %  |
| Mechanical durability            | 10000000 cycles  |

|                                |  |
|--------------------------------|--|
| <b>Safety reliability data</b> | B10d = 100000  |
| <b>Operating rate</b>          | <= 1200 cycles/hour under load<br><= 18000 cycles/hour no-load   |
| <b>Utilisation coefficient</b> | 20 %   |
| <b>CAD overall height</b>      | 82.8 mm  |
| <b>CAD overall depth</b>       | 80.35 mm   |
| <b>reset time</b>              | 20 ms  |
| <b>Dielectric strength</b>     | 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 |
| <b>Compatibility code</b>      | RXM  |
| <b>Protection category</b>     | RT I   |
| <b>Pollution degree</b>        | 3  |
| <b>Operating position</b>      | Any position   |
| <b>Test levels</b>             | Level A group mounting   |
| <b>Device presentation</b>     | Complete product   |
| <b>Contacts material</b>       | AgNi   |
| <b>Shape of pin</b>            | Flat (faston type)   |
| <b>Net weight</b>              | 0.037 kg   |

## Environment

|  |   |
|--|---|
| <b>Ambient air temperature for operation</b> | -40...55 °C   |
| <b>IP degree of protection</b>               | IP40 conforming to IEC 60529  |
| <b>Standards</b>                             | IEC 61810-1<br>UL 508<br>CSA C22.2 No 14  |
| <b>Product certifications</b>                | UL<br>Lloyd's<br>CE<br>CSA<br>GOST<br>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<br>5 gn, amplitude = +/- 1 mm (f = 10...150 Hz)5 cycles not operating |
| <b>Shock resistance</b>                      | 10 gn for in operation<br>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>             | 2.6 cm |
| <b>Package 1 Width</b>              | 2.0 cm |
| <b>Package 1 Length</b>             | 5.0 cm |
| <b>Package 1 Weight</b>             | 35.0 g |
| <b>Unit Type of Package 2</b>       | BB1    |
| <b>Number of Units in Package 2</b> | 10     |

|                              |          |
|------------------------------|----------|
| Package 2 Height             | 3.0 cm   |
| Package 2 Width              | 10.2 cm  |
| Package 2 Length             | 12.5 cm  |
| Package 2 Weight             | 386.0 g  |
| Unit Type of Package 3       | S02      |
| Number of Units in Package 3 | 240      |
| Package 3 Height             | 15.0 cm  |
| Package 3 Width              | 30.0 cm  |
| Package 3 Length             | 40.0 cm  |
| Package 3 Weight             | 9.734 kg |

## Contractual warranty

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



## 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 38

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](#)

California proposition 65 WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](#)

## Use Again

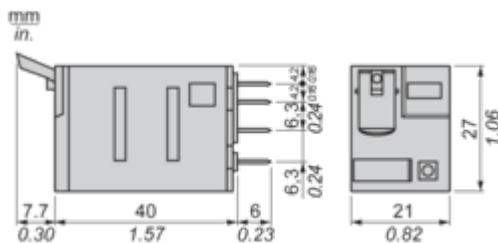
### Repack and remanufacture

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

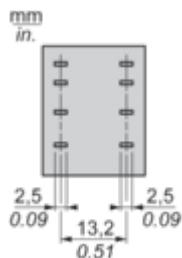
Take-back No

## Dimensions Drawings

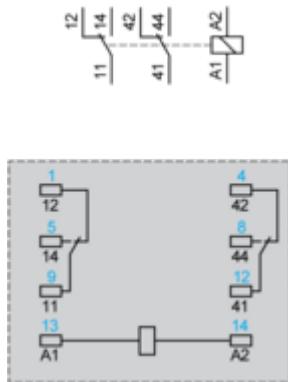
## Dimensions



Pin Side View



## Connections and Schema

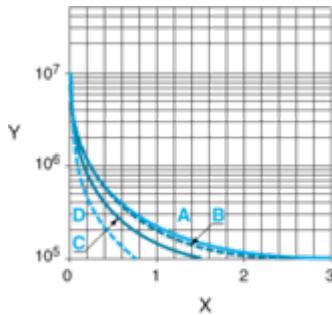
Wiring Diagram

Symbols shown in blue correspond to Nema marking.

## Performance Curves

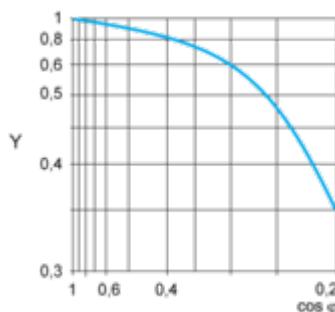
Electrical Durability of Contacts

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

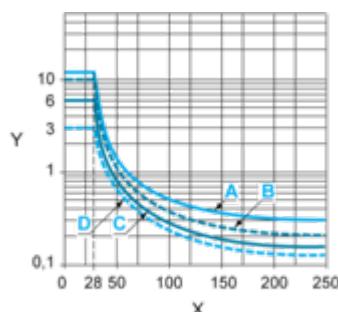


X Switching capacity (kVA)  
 Y Durability (Number of operating cycles)  
 A RXM2AB...  
 B RXM3AB...  
 C RXM4AB...  
 D RXM4GB...

Reduction coefficient for inductive AC load (depending on power factor  $\cos \phi$ )



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



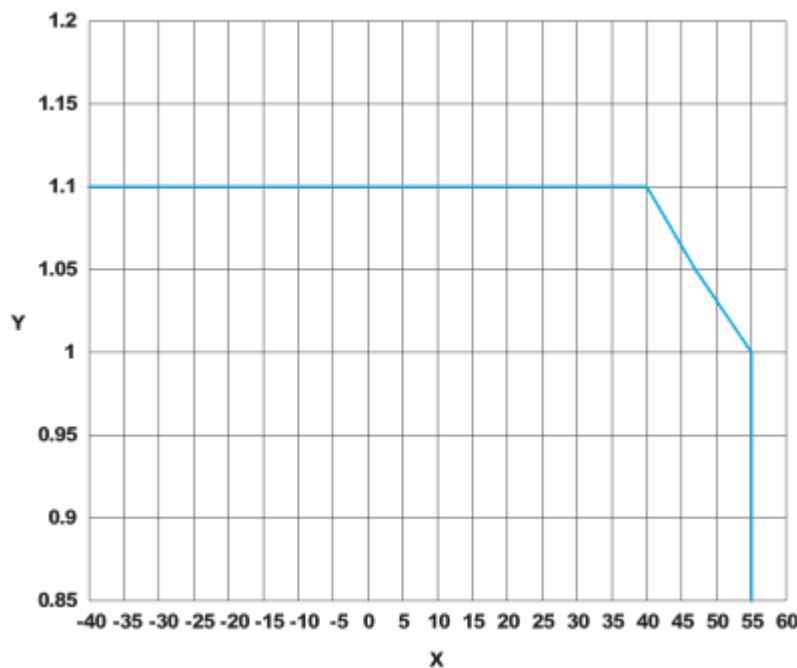
X Voltage DC  
 Y Current DC  
 A RXM2AB...  
 B RXM3AB...  
 C RXM4AB...  
 D RXM4GB...

**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.



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AC Coil Voltage and Operating Temperature under continuous duty



X : Operating temperature (°C)

Y : AC coil voltage (UC)

## Technical Illustration

## Dimensions

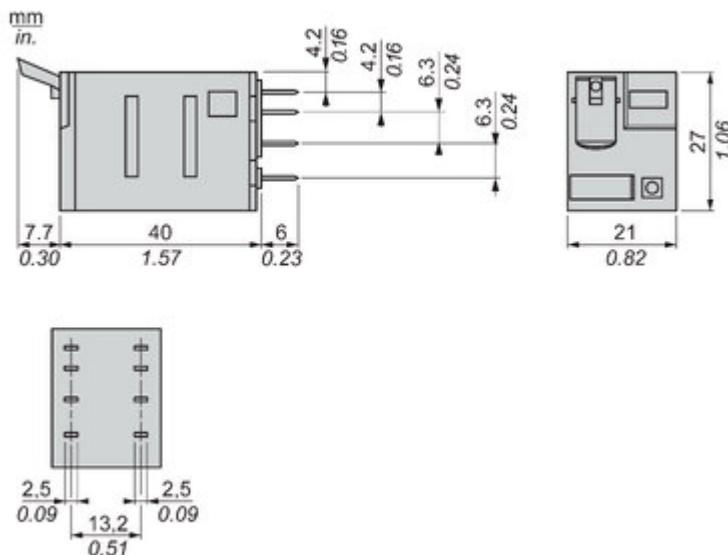


Image of product / Alternate images

Alternative

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