



## 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                 | 230 V AC 50/60 Hz                |
| [Ithe] conventional enclosed thermal current | 6 A at -40...55 °C               |
| 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 |
| 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   |

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

|                                  |  |
|----------------------------------|--|
| 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  |
| Drop-out voltage threshold       | >= 0.15 U <sub>c</sub>   |
| Operate time                     | 20 ms  |
| Release time                     | 20 ms  |
| Average coil resistance          | 15000 Ohm at 20 °C +/- 15 %                                    |
| Rated operational voltage limits | 184...253 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<br>2000 V AC between poles                    |
| Product certifications                | CE<br>CSA<br>GOST<br>UL<br>Lloyd's  |
| Standards                             | CSA C22.2 No 14<br>EN/IEC 61810-1<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 EN/IEC 60529   |
| Shock resistance                      | 10 gn for in operation<br>30 gn for not operating   |
| Pollution degree                      | 2   |

## Packing Units

|                  |           |
|------------------|-----------|
| Package 1 Weight | 39.000 g  |
| Package 1 Height | 41.000 mm |
| Package 1 width  | 28.000 mm |
| Package 1 Length | 21.000 mm |

## Offer Sustainability

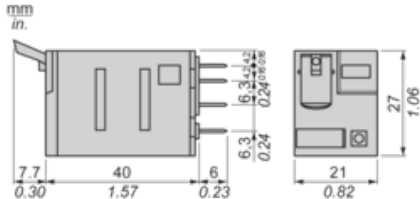
|                          |   |
|--------------------------|---|
| Sustainable offer status | Green Premium product   |
| REACH Regulation         | <a href="#">REACH Declaration</a>   |
| REACH free of SVHC       | Yes   |
| EU RoHS Directive        | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free   | Yes   |

|                            |   |
|----------------------------|---|
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</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 |

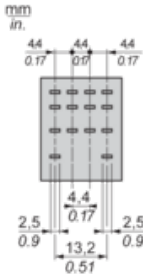
### Contractual warranty

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

Dimensions



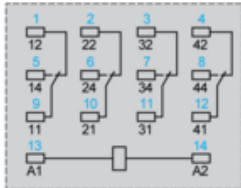
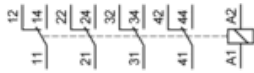
Pin Side View



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Wiring Diagram

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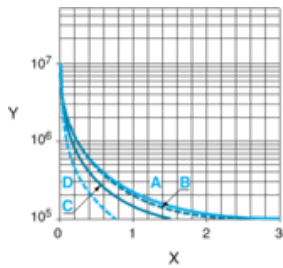


Symbols shown in blue correspond to Nema marking.

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)

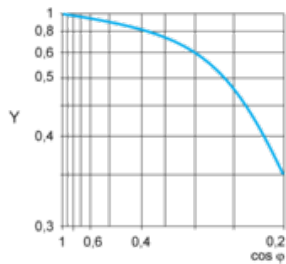
A RXM2AB...

B RXM3AB...

C RXM4AB...

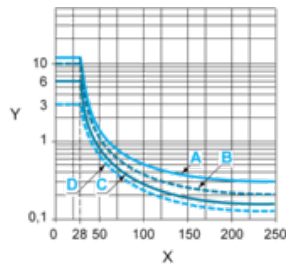
D RXM4GB...

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.