

Product data sheet

Characteristics

RXM2AB1JD

Harmony, Miniature plug-in relay, 12 A, 2 CO, with lockable test button, 12 V DC



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 | 2 C/O |
| [Uc] control circuit voltage | 12 V DC |
| [Ithe] conventional enclosed thermal current | 12 A at -40...55 °C |
| 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 300 V conforming to CSA 300 V conforming to UL |
| [Uimp] rated impulse withstand voltage | 4 kV during 1.2/50 µs |
| Contacts material | AgNi |
| [Ie] rated operational current | 12 A at 28 V (DC) NO conforming to IEC 12 A at 250 V (AC) NO conforming to IEC 6 A at 28 V (DC) NC conforming to IEC 6 A at 250 V (AC) NC conforming to IEC 12 A at 28 V (DC) conforming to UL 12 A at 277 V (AC) conforming to UL |
| Maximum switching voltage | 250 V conforming to IEC |
| Resistive rated load | 12 A at 250 V AC 12 A at 28 V DC |
| Maximum switching capacity | 3000 VA/336 W |
| Minimum switching capacity | 170 mW at 10 mA, 17 V |
| Operating rate | <= 1200 cycles/hour under load <= 18000 cycles/hour no-load |
| Mechanical durability | 10000000 cycles |
| Electrical durability | 100000 cycles for resistive load |
| Average coil consumption in W | 0.9 W |
| Drop-out voltage threshold | >= 0.1 Uc |
| Operate time | 20 ms |
| Release time | 20 ms |
| Average coil resistance | 160 Ohm at 20 °C +/- 10 % |
| Rated operational voltage limits | 9.6...13.2 V DC |
| Safety reliability data | B10d = 100000 |
| Protection category | RT I |
| Test levels | Level A group mounting |
| Operating position | Any position |
| Net weight | 0.037 kg |
| Device presentation | Complete product |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

| | |
|---------------------------------------|---|
| Dielectric strength | 1300 V AC between contacts with micro disconnection 2000 V AC between coil and contact 2000 V AC between poles |
| Product certifications | CSA UL GOST Lloyd's CE |
| Standards | CSA C22.2 No 14 UL 508 EN/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 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 30 gn for not operating |
| Pollution degree | 3 |

Packing Units

| | |
|------------------|----------|
| Package 1 Weight | 0.034 kg |
| Package 1 Height | 0.280 dm |
| Package 1 width | 0.210 dm |
| Package 1 Length | 0.480 dm |

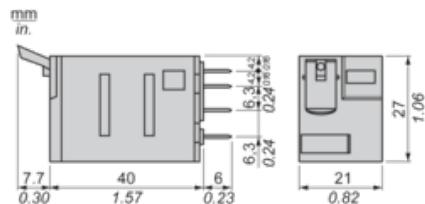
Offer Sustainability

| | |
|----------------------------|--|
| 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)  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 |

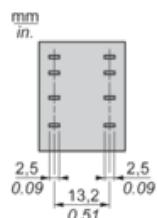
Contractual warranty

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

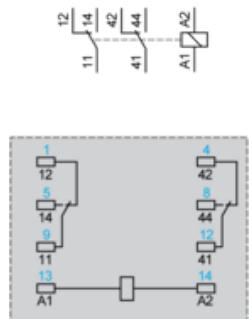
Dimensions



Pin Side View



Wiring Diagram

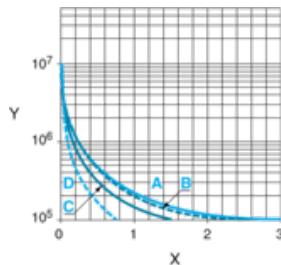


Symbols shown in blue correspond to Nema marking.

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)

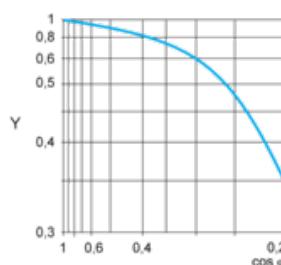
A RXM2AB...

B RXM3AB...

C RXM4AB...

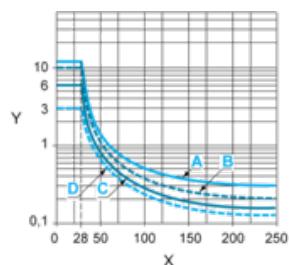
D RXM4GB...

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.