Specifications





Miniature plug-in relay, 12 A, 2 CO, 48 V DC

Local distributor code: 389837350

RXM2AB1ED

EAN Code: 3389119403412

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 | 48 V DC |
| Status Led | Without |
| Control Type | Lockable test button |
| Utilisation Coefficient | 20 % |

Complementary

| oompiementai y | |
|---|---|
| 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 |
| Continuous Output Current | 10 A |
| 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 | 1000000 cycles |
| Electrical Durability | 100000 cycles for resistive load |
| Average Coil Consumption | 0.9 W |
| Drop-Out Voltage Threshold | >= 0.1 Uc |

| Operate Time | 20 ms | |
|----------------------------------|----------------------------|--|
| Release Time | 20 ms | |
| Average Coil Resistance | 2560 Ohm at 20 °C +/- 10 % | |
| Rated Operational Voltage Limits | 38.452.8 V DC | |
| Safety Reliability Data | B10d = 100000 | |
| Protection Category | RTI | |
| Test Levels | Level A group mounting | |
| Operating Position | Any position | |
| Net Weight | 0.037 kg | |
| Device Presentation | Complete product | |

Environment

| Dielectric Strength | 1300 V AC between contacts with micro disconnection |
|--|---|
| , , , , , , , , , , , , , , , , , , , | 2000 V AC between coil and contact with basic insulation |
| | 2000 V AC between poles with basic insulation |
| Product Certifications | UL |
| | Lloyd's |
| | CE |
| | CSA |
| | GOST |
| | IECEE CB Scheme |
| Standards | CSA C22.2 No 14 |
| | IEC 61810-1 |
| | UL 508 |
| Ambient Air Temperature For Storage | -4085 °C |
| Ambient Air Temperature For Operation | -4055 °C |
| Vibration Resistance | 3 gn, amplitude = +/- 1 mm (f = 10…150 Hz)5 cycles in operation |
| | 5 gn, amplitude = +/- 1 mm (f = 10150 Hz)5 cycles not operating |
| Ip Degree Of Protection | IP40 conforming to IEC 60529 |
| Shock Resistance | 10 gn for in operation |
| | 30 gn for not operating |
| Pollution Degree | 3 |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|-----------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 1.100 cm |
| Package 1 Width | 2.200 cm |
| Package 1 Length | 5.000 cm |
| Package 1 Weight | 35.000 g |
| Unit Type Of Package 2 | BB1 |
| Number Of Units In Package 2 | 10 |
| Package 2 Height | 3.000 cm |
| Package 2 Width | 10.200 cm |
| Package 2 Length | 12.500 cm |
| Package 2 Weight | 379.000 g |

| Unit Type Of Package 3 | S01 |
|------------------------------|-----------|
| Number Of Units In Package 3 | 120 |
| Package 3 Height | 15.000 cm |
| Package 3 Width | 15.000 cm |
| Package 3 Length | 40.000 cm |
| Package 3 Weight | 4.888 kg |

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ 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

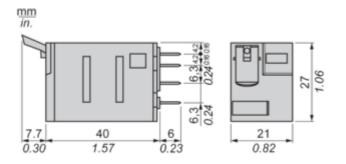
Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes

Certifications & Standards

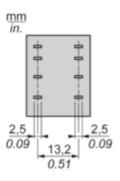
| Reach Regulation | REACh Declaration |
|--------------------------|---|
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The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

Dimensions Drawings

Dimensions

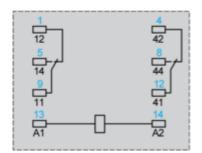


Pin Side View



Connections and Schema

Wiring Diagram

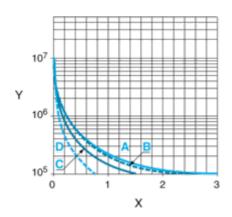


Symbols shown in blue correspond to Nema marking.

Performance Curves

Electrical Durability of Contacts

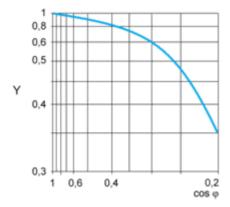
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

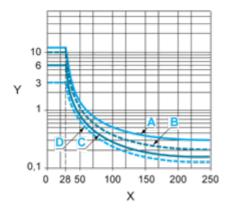
- Y Durability (Number of operating cycles)
- A RXM2AB ····
- B RXM3AB ····
- C RXM4AB•••
- D RXM4GB····

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



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



X Voltage DC Y Current DC A RXM2AB•••

RXM2AB1ED

B RXM3AB ····

C RXM4AB•••

D RXM4GB····

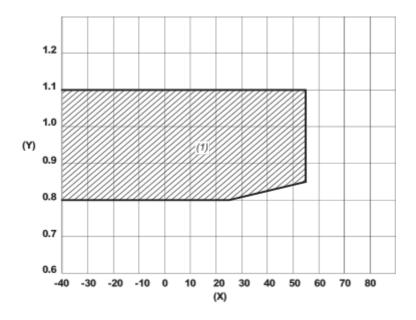
Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

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