RXM3AB1F7

miniature plug in relay, Harmony Electromechanical Relays, 10A, 3CO, lockable test but to n, 120V AC





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 | 3 C/O |
| [Uc] control circuit voltage | 120 V AC 50/60 Hz |
| Status LED | Without |
| Control type | Lockable test button |
| Utilisation coefficient | 20 % |

Complementary

| 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 |
| [le] rated operational current | 10 A at 28 V (DC) NO conforming to IEC 10 A at 250 V (AC) NO conforming to IEC 5 A at 28 V (DC) NC conforming to IEC 5 A at 250 V (AC) NC conforming to IEC 10 A at 30 V (DC) conforming to UL 10 A at 277 V (AC) conforming to UL |
| Continuous output current | 6.7 A |
| Maximum switching voltage | 250 V conforming to IEC |
| Resistive rated load | 10 A at 250 V AC 10 A at 28 V DC |
| Maximum switching capacity | 2500 VA/280 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 VA | 1.2 at 60 Hz |
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| Drop-out voltage threshold | >= 0.15 Uc |
| Operate time | 20 ms |
| Release time | 20 ms |
| Average coil resistance | 4430 Ohm at 20 °C +/- 15 % |
| Rated operational voltage limits | 96132 V AC |
| Safety reliability data | B10d = 100000 |
| Protection category | RTI |
| Test levels | Level A group mounting |
| Operating position | Any position |
| CAD overall height | 79 mm |

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 interested for a set of or determining suitability or intelability of these products for specific user applications. It is the documentation is not integrator to perform the appropriate and complete risk analysis, evaluating of the products with respect to the relevant specific application or use thereof. Neither Schmeider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| CAD overall depth | 78.45 mm | |
|---------------------|---|--|
| 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 | |
| | 2000 V AC between noise | |

| Dielectric strength | 1300 V AC between contacts with micro disconnection 2000 V AC between coil and contact |
|---------------------------------------|--|
| | 2000 V AC between poles |
| Product certifications | UL[RETURN]Lloyd's[RETURN]CE[RETURN]CSA[RETURN]GOST[RETURN]IECEE CB Scheme |
| Standards | UL 508 |
| | IEC 61810-1 |
| | CSA C22.2 No 14 |
| Ambient air temperature for storage | -4085 °C |
| Ambient air temperature for operation | -4055 °C |
| Vibration resistance | 3 gn, amplitude = +/- 1 mm (f = 10150 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 | 2 |

Packing Units

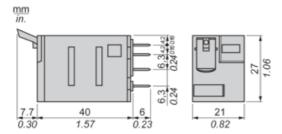
| 1 doking Office | |
|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.500 cm |
| Package 1 Width | 3.000 cm |
| Package 1 Length | 4.500 cm |
| Package 1 Weight | 36.000 g |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 3.000 cm |
| Package 2 Width | 10.000 cm |
| Package 2 Length | 12.500 cm |
| Package 2 Weight | 388.000 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 | 4.822 kg |
| | |

Offer Sustainability

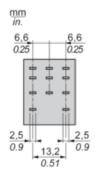
| Sustainable offer status | Green Premium product |
|----------------------------|---|
| REACh Regulation | REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | ₫Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | ☑ End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Warranty 18 months

Dimensions

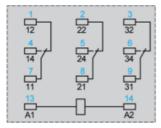


Pin Side View



Wiring Diagram





Symbols shown in blue correspond to Nema marking.

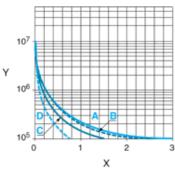
Product data sheet Performance Curves

RXM3AB1F7

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)

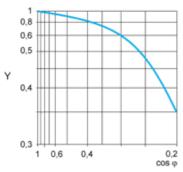
A RXM2AB•••

B RXM3AB•••

C RXM4AB***

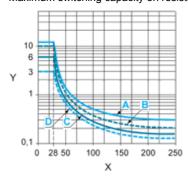
D RXM4GB•••

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•••

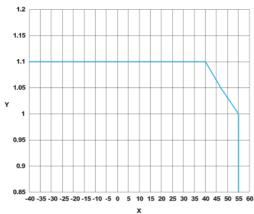
D RXM4GB•••

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.

AC Coil Voltage and Operating Temperature under continuous duty



X : Operating temperature (°C)

Y: AC coil voltage (UC)