

Product data sheet

Specifications



miniature plug in relay, Harmony Electromechanical Relays, 12A, 2CO, with LED, lockable test but to n, 120V AC

RXM2AB2F7

Product availability: Stock - Normally stocked in distribution facility

Price*: 7.56 USD

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 | 120 V AC 50/60 Hz |
| Status LED | With |
| Control Type | Lockable test button |
| Utilisation coefficient | 20 % |

Complementary

| | |
|--|---|
| Shape of pin | Flat |
| [Ui] rated insulation voltage | 250 V IEC 300 V CSA 300 V UL |
| [Uimp] rated impulse withstand voltage | 4 kV 1.2/50 μ s |
| Contacts material | AgNi |
| [Ie] rated operational current | 12 A 28 V DC) NO IEC 12 A 250 V AC) NO IEC 6 A 28 V DC) NC IEC 6 A 250 V AC) NC IEC 12 A 28 V DC) UL 12 A 277 V AC) UL |
| Continuous output current | 10 A |
| Maximum switching voltage | 250 V IEC |
| resistive rated load | 12 A 250 V AC 12 A 28 V DC |
| Maximum switching capacity | 3000 VA/336 W |
| Minimum switching capacity | 170 mW 10 mA, 17 V |
| Operating rate | \leq 1200 cycles/hour under load \leq 18000 cycles/hour no-load |
| Mechanical durability | 1000000 cycles |
| Electrical durability | 100000 cycles resistive |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

| | |
|----------------------------------|-------------------------|
| average coil consumption in VA | 1.2 60 Hz |
| Average consumption | 1.2 VA 60 Hz |
| Drop-out voltage threshold | >= 0.15 Uc |
| operate time | 20 ms |
| release time | 20 ms |
| average coil resistance | 4430 Ohm 20 °C +/- 15 % |
| Rated operational voltage limits | 96...132 V AC |
| Safety reliability data | B10d = 100000 |
| Protection category | RT I |
| Test levels | Level A group mounting |
| Operating position | Any position |
| CAD overall height | 3.1 in (79 mm) |
| CAD overall depth | 3.09 in (78.45 mm) |
| Net Weight | 0.082 lb(US) (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 | -40...185 °F (-40...85 °C) |
| Ambient air temperature for operation | -40...131 °F (-40...55 °C) |
| Vibration resistance | 3 gn +/- 1 mm 10...150 Hz)5 cycles in operation 5 gn +/- 1 mm 10...150 Hz)5 cycles not operating |
| IP degree of protection | IP40 conforming to IEC 60529 |
| Shock resistance | 10 gn in operation 30 gn not operating |
| Pollution degree | 3 |

Ordering and shipping details

| | |
|-------------------|---------------|
| Category | US10CP221127 |
| Discount Schedule | 0CP2 |
| GTIN | 3389119403504 |
| Returnability | Yes |
| Country of origin | CN |

Packing Units

| | |
|------------------------|-----|
| Unit Type of Package 1 | PCE |
|------------------------|-----|

| | |
|-------------------------------------|--------------------------|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 0.83 in (2.100 cm) |
| Package 1 Width | 1.06 in (2.700 cm) |
| Package 1 Length | 1.81 in (4.600 cm) |
| Package 1 Weight | 1.305 oz (37.000 g) |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 1.18 in (3.000 cm) |
| Package 2 Width | 4.02 in (10.200 cm) |
| Package 2 Length | 4.92 in (12.500 cm) |
| Package 2 Weight | 13.686 oz (388.000 g) |
| Unit Type of Package 3 | S02 |
| Number of Units in Package 3 | 240 |
| Package 3 Height | 5.91 in (15.000 cm) |
| Package 3 Width | 11.81 in (30.000 cm) |
| Package 3 Length | 15.75 in (40.000 cm) |
| Package 3 Weight | 21.625 lb(US) (9.809 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.

[How this information helps you >](#)

Environmental footprint

| | |
|--|----|
| Carbon footprint (kg CO2 eq, Total Life cycle) | 23 |
|--|----|

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](#)

China RoHS Regulation

[China RoHS 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 Diisodecyl 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

Circularity Profile

[End of Life Information](#)

WEEE



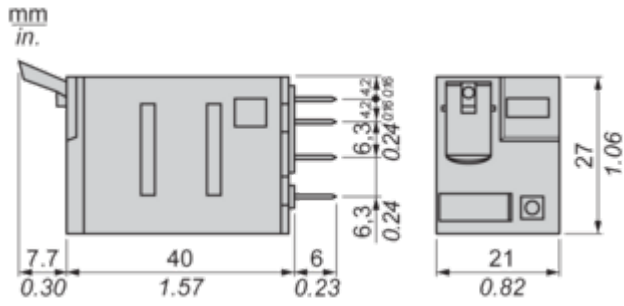
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Take-back

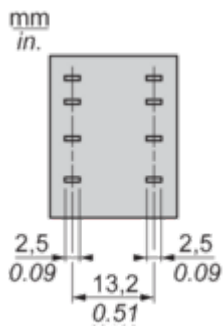
No

Dimensions Drawings

Dimensions

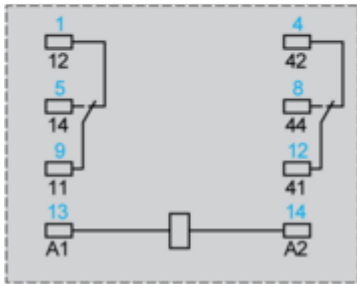
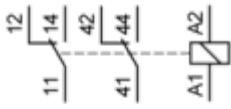


Pin Side View



Connections and Schema

Wiring Diagram



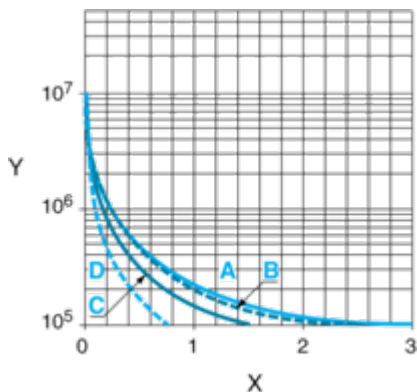
Symbols shown in blue correspond to Nema marking.

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)

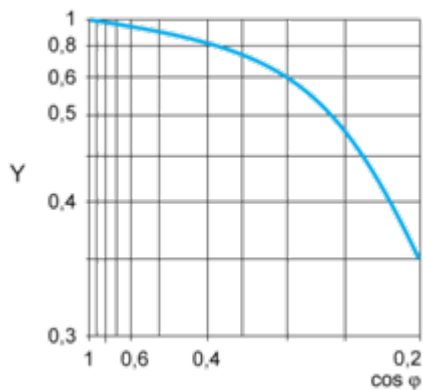
A RXM2AB...

B RXM3AB...

C RXM4AB...

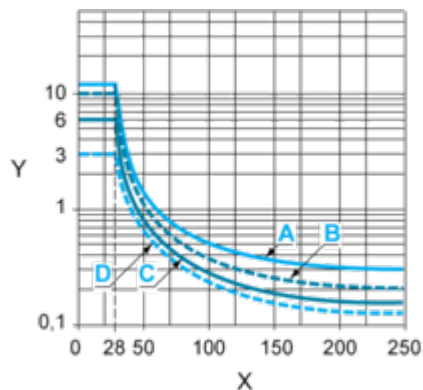
D RXM4GB...

Reduction coefficient for inductive AC load (depending on power factor cos φ)



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



X Voltage DC

Y Current DC

A RXM2AB...

B RXM3AB...

C RXM4AB...

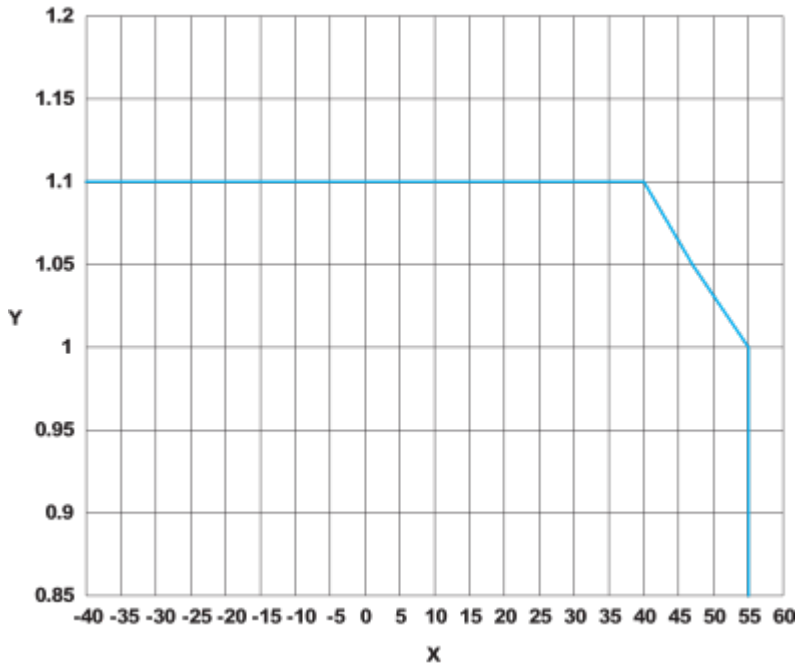
D RXM4GB...

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)

Technical Illustration

Dimensions

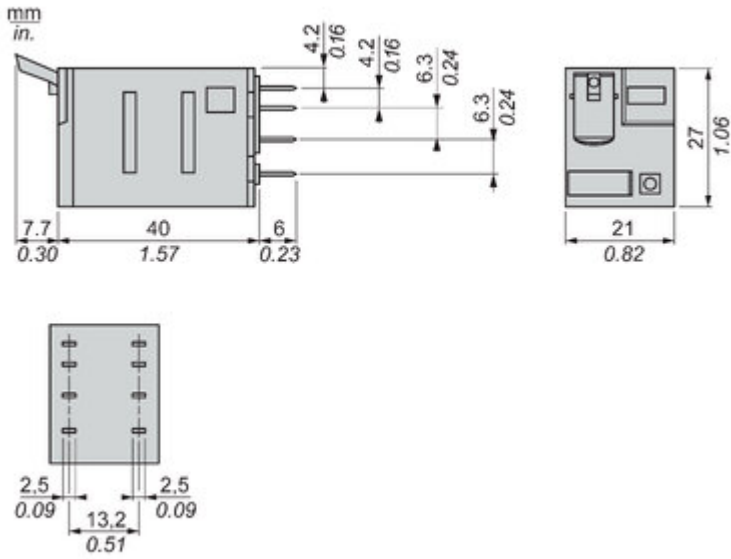


Image of product / Alternate images

Alternative

