

Product data sheet

Specifications



miniature plug in relay, Harmony Electromechanical Relays, 10A, 2CO, without LED, with lockable test button, 230V DC

RXM2CB1P7

⚠ Discontinued on: Oct 9, 2023

⚠ Discontinued

Main

| | |
|-------------------------------|----------------------------------|
| Range of product | Harmony Electromechanical Relays |
| Series name | Miniature |
| Product or component type | Plug-in relay |
| Device short name | RXM |
| Utilisation coefficient | 20 % |
| Sale per indivisible quantity | 10 |

Complementary

| | |
|--|--|
| Contacts type and composition | 2 C/O |
| Contact operation | Standard |
| [Uc] control circuit voltage | 230 V AC 50/60 Hz |
| [Ithe] conventional enclosed thermal current | 10 A at -40...55 °C |
| status LED | Without |
| [Ui] rated insulation voltage | 250 V conforming to IEC 300 V conforming to UL |
| [Uimp] rated impulse withstand voltage | 3.6 kV during 1.2/50 µs conforming to IEC 61810-7 |
| Contacts material | Silver alloy (Ag/Ni) |
| [Ie] rated operational current | 10 A (AC-1/DC-1) conforming to UL 10 A (AC-1/DC-1) NO conforming to IEC 5 A (AC-1/DC-1) NC conforming to IEC |
| minimum switching current | 10 mA |
| Maximum switching voltage | 250 V AC 125 V DC |
| Minimum switching voltage | 17 V |
| Load current | 10 A at 250 V AC 10 A at 30 V DC |
| Maximum switching capacity | 2500 VA AC 300 W DC |
| Minimum switching capacity | 170 mW |
| 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 | 1.55 AC |
| Drop-out voltage threshold | >= 0.15 U _c AC |
| Operating time | 20 ms |
| Average resistance | 15000 Ohm network: AC at 20 °C +/- 15 % |
| Rated operational voltage limits | 184...253 V AC |
| Protection category | RT I |
| Test levels | Level A group mounting |
| Operating position | Any position |
| CAD overall width | 21 mm |
| CAD overall height | 27 mm |
| CAD overall depth | 55 mm |
| Net weight | 0.035 kg |
| Dielectric strength | 1800 V AC between coil and contact 1550 V AC between poles 1000 V AC between contacts |
| Safety reliability data | B10d = 100000 |

Environment

| | |
|---------------------------------------|---|
| Product certifications | UL GOST |
| Standards | UL 508 IEC 61810-1 |
| Ambient air temperature for storage | -40...70 °C |
| Ambient air temperature for operation | -40...55 °C |
| Vibration resistance | 3 gn, amplitude = +/- 1 mm (f = 10...55 Hz) without clip conforming to IEC 60068-2-6 5 gn, amplitude = +/- 1 mm (f = 10...55 Hz) with clip conforming to IEC 60068-2-6 |
| IP degree of protection | IP40 conforming to IEC 60529 |
| Shock resistance | 10 gn (duration = 11 ms) for opening conforming to IEC 60068-2-27 10 gn (duration = 11 ms) for closing conforming to IEC 60068-2-27 |

Packing Units

| | |
|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 3.2 cm |
| Package 1 Width | 1.03 cm |
| Package 1 Length | 1.26 cm |
| Package 1 Weight | 4.0 g |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 2.9 cm |
| Package 2 Width | 10.0 cm |
| Package 2 Length | 11.6 cm |
| Package 2 Weight | 350.0 g |
| Unit Type of Package 3 | CAR |

| | |
|-------------------------------------|---------|
| Number of Units in Package 3 | 270 |
| Package 3 Height | 15.0 cm |
| Package 3 Width | 29.9 cm |
| Package 3 Length | 39.8 cm |
| Package 3 Weight | 9.0 kg |

Contractual warranty

| | |
|-----------------------------|----|
| Warranty (in months) | 18 |
|-----------------------------|----|



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.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better



Materials and Substances

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **Yes**

EU RoHS Directive [Compliant](#)

Use Longer

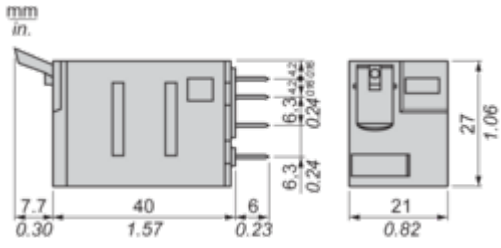


Lifetime extension

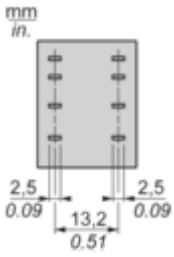
Repair **No**

Dimensions Drawings

Dimensions

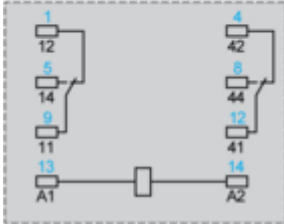


Pin Side View



Connections and Schema

Wiring Diagram

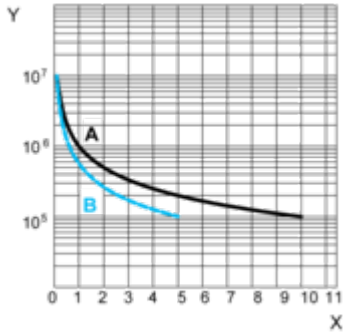


Symbols shown in blue correspond to Nema marking.

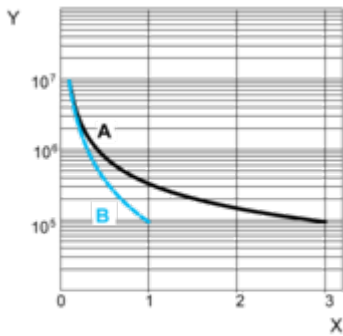
Performance Curves

Electrical Durability of Contacts

Resistive load



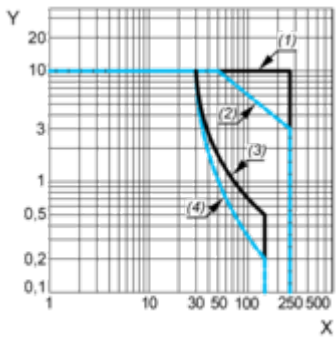
X : Contact current (A)
Y : Durability (Number of operating cycles)
A : RXM 2CB...
B : RXM 4CB...
Inductive load



X : Contact current (A)
Y : Durability (Number of operating cycles)
A : RXM 2CB...
B : RXM 4CB...
Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

Maximum Switching Capacity on Resistive and Inductive Loads

RXM 2CB...



X : Switching Voltage (V)

Y : Switching current (A)

(1) AC resistive load

(2) AC inductive load (cos phi) = 0.4

(3) DC resistive load

(4) DC inductive load (T0.95 = 6 P)

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

Technical Illustration

Dimensions

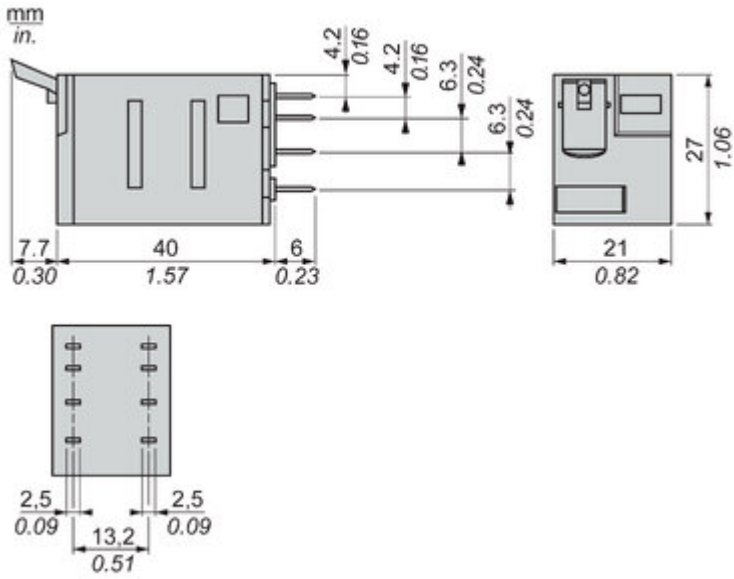


Image of product / Alternate images

Alternative

