# Product data sheet

Specifications


Discontinued

## miniature plug in relay, Harmony Electromechanical Relays, 5A, 4CO, without LED, with lockable test button, 120V AC

RXM4CB1F7

Discontinued on: May 18, 2022

End-of-service on: Dec 31, 2022

## Main

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

## Complementary

| | |
|---|---|
| **Contact operation** | Standard |
| **[Uc] control circuit voltage** | 120 V AC 50/60 Hz |
| **[Ithe] conventional enclosed thermal current** | 5 A at -40…55 °C |
| **status LED** | Without |
| **[Ui] rated insulation voltage** | 250 V conforming to IEC<br>300 V conforming to UL |
| **[Uimp] rated impulse withstand voltage** | 2.5 kV during 1.2/50 µs conforming to IEC 61810-7 |
| **Contacts material** | Silver alloy (Ag/Ni) |
| **[Ie] rated operational current** | 5 A (AC-1/DC-1) conforming to UL<br>5 A (AC-1/DC-1) NO conforming to IEC<br>2.5 A (AC-1/DC-1) NC conforming to IEC |
| **minimum switching current** | 10 mA |
| **Maximum switching voltage** | 250 V AC<br>125 V DC |
| **Minimum switching voltage** | 17 V |
| **Load current** | 5 A at 250 V AC<br>5 A at 30 V DC |
| **Maximum switching capacity** | 1250 VA AC<br>150 W DC |
| **Minimum switching capacity** | 170 mW |
| **Operating rate** | <= 1200 cycles/hour under load<br><= 18000 cycles/hour no-load |
| **Mechanical durability** | 10000000 cycles |
| **Average coil consumption in VA** | 1.2 AC |

| | |
|---|---|
| **Drop-out voltage threshold** | >= 0.15 Uc AC |
| **Operating time** | 20 ms |
| **Average resistance** | 4500 Ohm at 20 °C +/- 15 % |
| **Rated operational voltage limits** | 96...132 V AC |
| **Protection category** | RT I |
| **Test levels** | Level A group mounting |
| **Operating position** | Any position |
| **Product weight** | 0.036 kg |
| **Dielectric strength** | 1800 V AC between coil and contact<br>1550 V AC between poles<br>1000 V AC between contacts |
| **Safety reliability data** | B10d = 100000 |
| **Electrical durability** | 100000 cycles for resistive load |
| **Dielectric strength** | 1800 V AC between coil and contact<br>1550 V AC between poles<br>1000 V AC between contacts |
| **Pollution degree** | 2 |

## Environment

| | |
|---|---|
| **Product certifications** | UL<br>GOST<br>EAC |
| **Standards** | UL 508<br>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…150 Hz)without clip conforming to IEC 60068-2-6<br>5 gn, amplitude = +/- 1 mm (f = 10…150 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<br>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 |

## 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 Longer

#### Lifetime extension

| | |
|---|---|
| Repair | No |

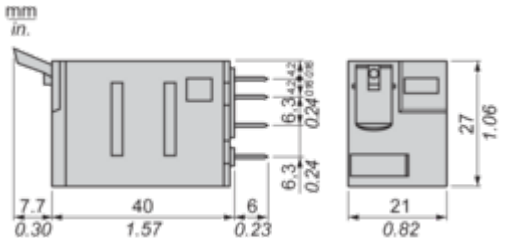
### Use Again

#### Repack and remanufacture

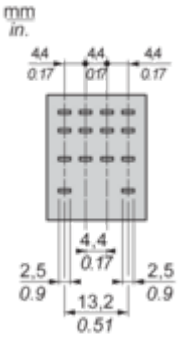
| | |
|---|---|
| WEEE Label | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Dimensions Drawings

## Dimensions

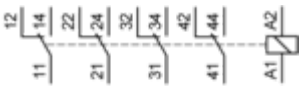


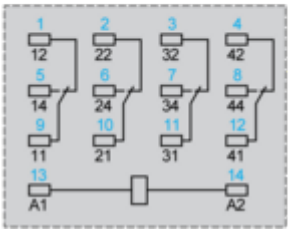

Pin Side View



## Connections and Schema

### Wiring Diagram



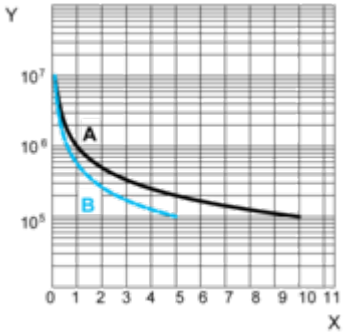




Symbols shown in blue correspond to Nema marking.

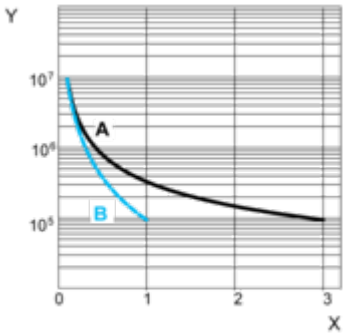
## Performance Curves

### Electrical Durability of Contacts

Resistive load



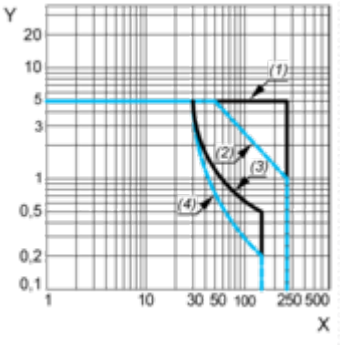

**X :** Contact current (A)
**Y :** Durability (Number of operating cycles)
**A :** RXM 2CB•••
**B :** RXM 4CB•••
Inductive load




**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 4CB•••




**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**