

# Product data sheet

Specifications



Plug In Relay, Harmony Relay, miniature, 6A at 277VAC, 4CO contacts, 120VAC 50/60Hz coil, with LED

RXM4AB3F7

**Product availability: Stock - Normally stocked in distribution facility**

## Main

|  |                                  |
|--|----------------------------------|
| Range of Product                             | Harmony Electromechanical Relays |
| Series name                                  | RXM series                       |
| Product or Component Type                    | Plug-in relay                    |
| Relay Type                                   | Miniature relay                  |
| Contacts type and composition                | 4 C/O                            |
| Status LED                                   | With                             |
| Control Type                                 | Without lockable test button     |
| [Uc] control circuit voltage                 | 120 V AC 50/60 Hz                |
| [Ithe] conventional enclosed thermal current | 6 A                              |
| Continuous output current                    | 5 A                              |

## Complementary

|   |   |
|---|---|
| [Uiimp] rated impulse withstand voltage | 2.5 kV 1.2/50 µs  |
| [Ie] rated operational current          | 3 A 28 V DC) NC IEC<br>3 A 250 V AC) NC IEC<br>6 A 28 V DC) NO IEC<br>6 A 250 V AC) NO IEC<br>6 A 277 V AC) UL<br>8 A 30 V DC) UL |
| Minimum switching capacity              | 170 mW 10 mA, 17 V  |
| Electrical durability                   | 100000 cycles resistive   |
| Average coil consumption in VA          | 1.2 60 Hz   |
| Rated operational voltage limits        | 96...132 V AC   |
| [Ui] rated insulation voltage           | 250 V IEC<br>300 V CSA<br>300 V UL  |
| Average consumption                     | 1.2 VA 60 Hz  |
| Maximum switching voltage               | 250 V IEC   |
| Drop-out voltage threshold              | >= 0.15 Uc  |
| Load current                            | 6 A 250 V AC<br>6 A 28 V DC   |
| Operating time                          | 20 ms   |
| Maximum switching capacity              | 1500 VA/168 W   |
| Average resistance                      | 4430 Ohm 20 °C +/- 15 %   |

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

|                                |  |
|--------------------------------|--|
| <b>Mechanical durability</b>   | 10000000 cycles  |
| <b>Safety reliability data</b> | B10d = 100000  |
| <b>Operating rate</b>          | <= 1200 cycles/hour under load<br><= 18000 cycles/hour no-load   |
| <b>Utilisation coefficient</b> | 20 %   |
| <b>reset time</b>              | 20 ms  |
| <b>Dielectric strength</b>     | 1300 V AC between contacts with micro disconnection<br>2000 V AC between coil and contact with basic insulation<br>2000 V AC between poles with basic insulation |
| <b>Compatibility code</b>      | RXM  |
| <b>Protection category</b>     | RT I   |
| <b>Pollution degree</b>        | 2  |
| <b>Operating position</b>      | Any position   |
| <b>Test levels</b>             | Level A group mounting   |
| <b>Device presentation</b>     | Complete product   |
| <b>Contacts material</b>       | AgNi   |
| <b>Shape of pin</b>            | Flat (faston type)   |
| <b>Product Weight</b>          | 0.082 lb(US) (0.037 kg)  |

## Environment

|  |   |
|--|---|
| <b>Ambient air temperature for operation</b> | -40...131 °F (-40...55 °C)  |
| <b>IP degree of protection</b>               | IP40 conforming to IEC 60529  |
| <b>Standards</b>                             | UL 508<br>CSA C22.2 No 14<br>IEC 61810-1  |
| <b>Product Certifications</b>                | UL<br>Lloyd's<br>CE<br>CSA<br>GOST<br>IECEE CB Scheme   |
| <b>Ambient Air Temperature for Storage</b>   | -40...185 °F (-40...85 °C)  |
| <b>Vibration resistance</b>                  | 3 gn +/- 1 mm 10...150 Hz 5 cycles in operation<br>5 gn +/- 1 mm 10...150 Hz 5 cycles not operating |
| <b>Shock resistance</b>                      | 10 gn in operation<br>30 gn not operating   |

## Ordering and shipping details

|                          |               |
|--------------------------|---------------|
| <b>Category</b>          | US10CP221127  |
| <b>Discount Schedule</b> | 0CP2          |
| <b>GTIN</b>              | 3389119217279 |
| <b>Returnability</b>     | Yes           |
| <b>Country of origin</b> | CN            |

## Packing Units

|                               |     |
|-------------------------------|-----|
| <b>Unit Type of Package 1</b> | PCE |
| <b>Nbr. of units in pkg.</b>  | 1   |

|                              |                          |
|------------------------------|--------------------------|
| Package 1 Height             | 0.79 in (2.000 cm)       |
| Package 1 Width              | 1.06 in (2.700 cm)       |
| Package 1 Length             | 1.77 in (4.500 cm)       |
| Package weight(Lbs)          | 1.199 oz (34.000 g)      |
| Unit Type of Package 2       | BB1                      |
| Number of Units in Package 2 | 10                       |
| Package 2 Height             | 1.22 in (3.100 cm)       |
| Package 2 Width              | 4.06 in (10.300 cm)      |
| Package 2 Length             | 5.00 in (12.700 cm)      |
| Package 2 Weight             | 12.945 oz (367.000 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             | 20.488 lb(US) (9.293 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.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Carbon footprint (kg CO<sub>2</sub> eq, Total Life cycle) **22**

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)**

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 Di-isodecyl 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

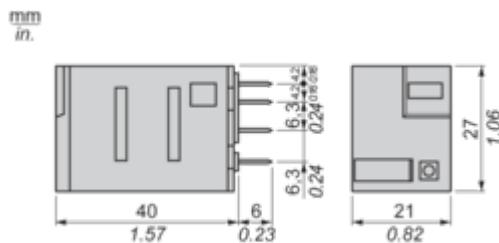
### Repack and remanufacture

Circularity Profile [End of Life Information](#)

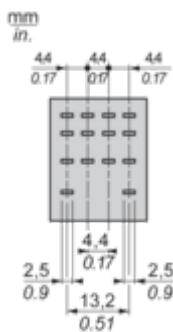
Take-back **No**

## Dimensions Drawings

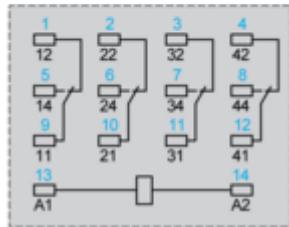
## Dimensions



### Pin Side View



## Connections and Schema

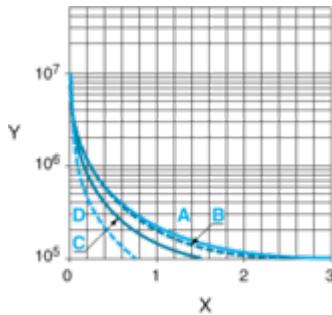
Wiring Diagram

Symbols shown in blue correspond to Nema marking.

## Performance Curves

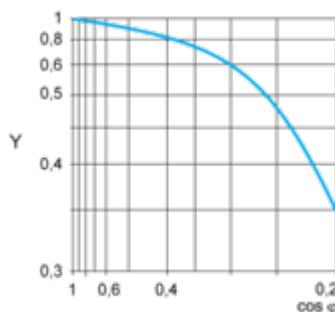
Electrical Durability of Contacts

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

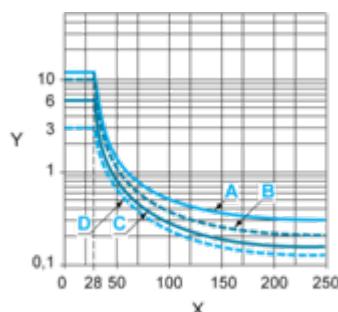


X Switching capacity (kVA)  
Y Durability (Number of operating cycles)  
A RXM2AB...  
B RXM3AB...  
C RXM4AB...  
D RXM4GB...

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



Y Reduction coefficient (A)  
Maximum switching capacity on resistive DC load



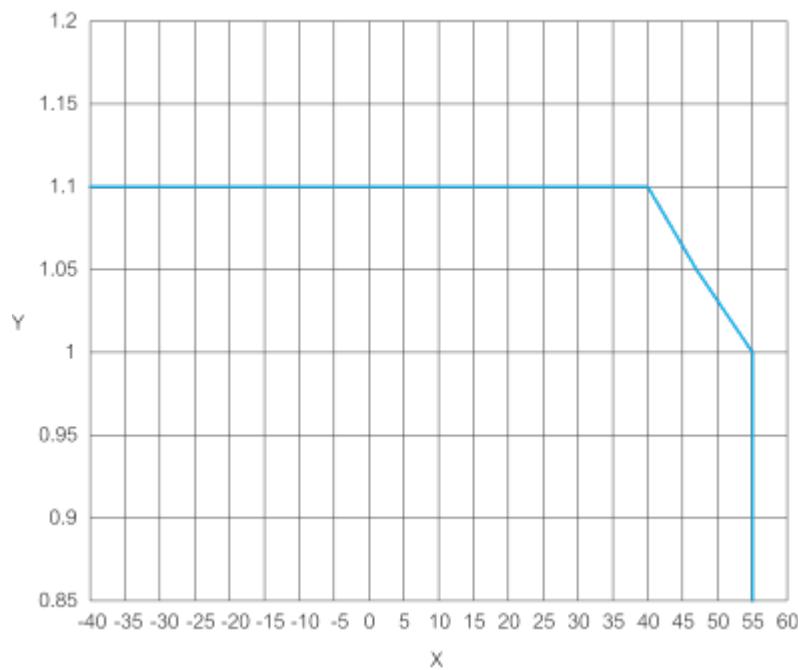
X Voltage DC  
Y Current DC  
A RXM2AB...  
B RXM3AB...  
C RXM4AB...  
D RXM4GB...

**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.



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AC Coil Voltage and Operating Temperature under continuous duty



X : Operating temperature (°C)

Y : AC coil voltage (UC)

## Technical Illustration

## Dimensions

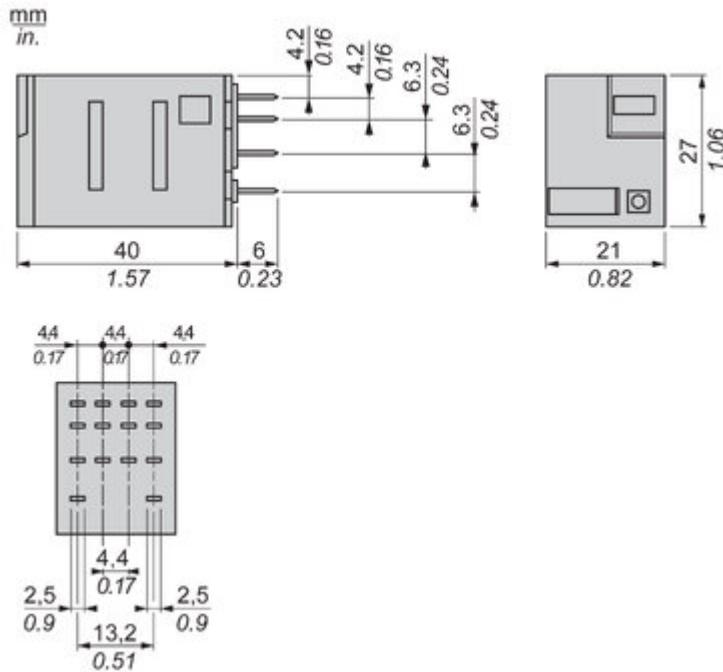


Image of product in real life situation

