

# Product data sheet

Specifications



miniature plug in relay pre assembled, Harmony Electromechanical Relays, 6A, 4CO, lockable test but to n, separate terminals socket, 230V AC

RXM4AB1P7PVS

**Product availability:** Non-Stock - Not normally stocked in distribution facility

## Main

|                                              |                                         |
|----------------------------------------------|-----------------------------------------|
| Range of Product                             | Harmony Electromechanical Relays        |
| Series name                                  | RXM series                              |
| Product or Component Type                    | Pre-assembled plug-in relay with socket |
| Relay Type                                   | Miniature relay                         |
| Contacts type and composition                | 4 C/O                                   |
| Status LED                                   | Without                                 |
| Control Type                                 | Lockable test button                    |
| [Uc] control circuit voltage                 | 230 V AC 50/60 Hz                       |
| [Ithe] conventional enclosed thermal current | 6 A                                     |
| Continuous output current                    | 5 A                                     |

## Complementary

|                                        |                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| [Uimp] 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 current              | 10 mA                                                                                                                             |
| Minimum switching voltage              | 17 V                                                                                                                              |
| Minimum switching capacity             | 170 mW 10 mA, 17 V                                                                                                                |
| Electrical durability                  | 100000 cycles resistive                                                                                                           |
| Rated operational voltage limits       | 184...253 V AC                                                                                                                    |
| [UI] rated insulation voltage          | 250 V IEC                                                                                                                         |
| Maximum switching voltage              | 250 V                                                                                                                             |
| Drop-out voltage threshold             | >= 0.3 Uc AC                                                                                                                      |
| Load current                           | 6 A 250 V AC<br>6 A 28 V DC                                                                                                       |
| Operating time                         | 20 ms                                                                                                                             |
| Maximum switching capacity             | 1500 VA/168 W AC/DC                                                                                                               |
| Average resistance                     | 15000 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.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                               |                                                                                                                                                                                                                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Average coil consumption      | 1.2 W, AC                                                                                                                                                                                                                                                                                                        |
| Mechanical durability         | 10000000 cycles                                                                                                                                                                                                                                                                                                  |
| Safety reliability data       | B10d = 100000                                                                                                                                                                                                                                                                                                    |
| Operating rate                | <= 1200 cycles/hour under load<br><= 18000 cycles/hour no-load                                                                                                                                                                                                                                                   |
| Utilisation coefficient       | 20 %                                                                                                                                                                                                                                                                                                             |
| CAD overall width             | 1.06 in (26.9 mm)                                                                                                                                                                                                                                                                                                |
| CAD overall height            | 3.3 in (82.8 mm)                                                                                                                                                                                                                                                                                                 |
| CAD overall depth             | 3.16 in (80.35 mm)                                                                                                                                                                                                                                                                                               |
| Torque Value                  | 8.9 lbf.in (1 N.m)                                                                                                                                                                                                                                                                                               |
| Reset time                    | 20 ms                                                                                                                                                                                                                                                                                                            |
| Contact terminal arrangement  | Separate                                                                                                                                                                                                                                                                                                         |
| Connections - terminals       | Connector, 1 x 0.25...1 x 2.5 mm² AWG 22...AWG 14) flexible with cable end<br>Connector, 2 x 0.25...2 x 1 mm² AWG 22...AWG 17) flexible with cable end<br>Connector, 1 x 0.5...1 x 2.5 mm² AWG 20...AWG 14) solid without cable end<br>Connector, 2 x 0.5...2 x 1.5 mm² AWG 20...AWG 16) solid without cable end |
| Dielectric strength           | 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                                                                                                                                                 |
| Compatibility code            | RXM                                                                                                                                                                                                                                                                                                              |
| Protection category           | RT I                                                                                                                                                                                                                                                                                                             |
| Pollution degree              | 2                                                                                                                                                                                                                                                                                                                |
| Operating position            | Any position                                                                                                                                                                                                                                                                                                     |
| Test levels                   | Level A group mounting                                                                                                                                                                                                                                                                                           |
| Device presentation           | Complete product                                                                                                                                                                                                                                                                                                 |
| Sale per indivisible quantity | 30                                                                                                                                                                                                                                                                                                               |
| Contacts material             | AgNi                                                                                                                                                                                                                                                                                                             |
| Shape of pin                  | Flat (faston type)                                                                                                                                                                                                                                                                                               |
| Product Weight                | 0.231 lb(US) (0.105 kg)                                                                                                                                                                                                                                                                                          |

## Environment

|                                       |                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------|
| Ambient air temperature for operation | -40...131 °F (-40...55 °C)                                                                          |
| IP degree of protection               | IP20 conforming to IEC 60529                                                                        |
| Standards                             | UL 508<br>IEC 61810-1<br>CSA C22.2 No 14<br>IEC 61984                                               |
| Product Certifications                | UL<br>Lloyd's<br>CE<br>CSA<br>GOST<br>IECEE CB Scheme                                               |
| Ambient Air Temperature for Storage   | -40...185 °F (-40...85 °C)                                                                          |
| Vibration resistance                  | 3 gn +/- 1 mm 10...150 Hz)5 cycles in operation<br>5 gn +/- 1 mm 10...150 Hz)5 cycles not operating |
| Shock resistance                      | 10 gnin operation<br>30 gnnot operating                                                             |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US10CP221127  |
| Discount Schedule | 0CP2          |
| GTIN              | 3606489563233 |
| Returnability     | Yes           |
| Country of origin | ID            |

## Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Nbr. of units in pkg.        | 1                        |
| Package 1 Height             | 3.150 in (8.000 cm)      |
| Package 1 Width              | 0.984 in (2.500 cm)      |
| Package 1 Length             | 3.150 in (8.000 cm)      |
| Package weight(Lbs)          | 3.527 oz (100.000 g)     |
| Unit Type of Package 2       | BB1                      |
| Number of Units in Package 2 | 30                       |
| Package 2 Height             | 3.937 in (10.000 cm)     |
| Package 2 Width              | 10.315 in (26.200 cm)    |
| Package 2 Length             | 11.693 in (29.700 cm)    |
| Package 2 Weight             | 7.425 lb(US) (3.368 kg)  |
| Unit Type of Package 3       | S03                      |
| Number of Units in Package 3 | 60                       |
| Package 3 Height             | 11.811 in (30.000 cm)    |
| Package 3 Width              | 11.811 in (30.000 cm)    |
| Package 3 Length             | 15.748 in (40.000 cm)    |
| Package 3 Weight             | 16.654 lb(US) (7.554 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 >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 4 kg CO2 eq.                                  |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.9 kg CO2 eq.                                |
| Carbon footprint of the distribution phase [A4]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 4 kg CO2 eq.                                  |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0 kg CO2 eq.                                  |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                                                                                                                                                                                                                                                                                                           |
| Packaging without single use plastic   | Yes                                                                                                                                                                                                                                                                                                                                                                           |
| EU RoHS Directive                      | <a href="#">Compliant</a>                                                                                                                                                                                                                                                                                                                                                     |
| REACH Regulation                       | <a href="#">Free of Substances of Very High Concern above the threshold</a>                                                                                                                                                                                                                                                                                                   |
| California proposition 65              | <b>WARNING:</b> 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

## Use Longer



### Lifetime extension

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

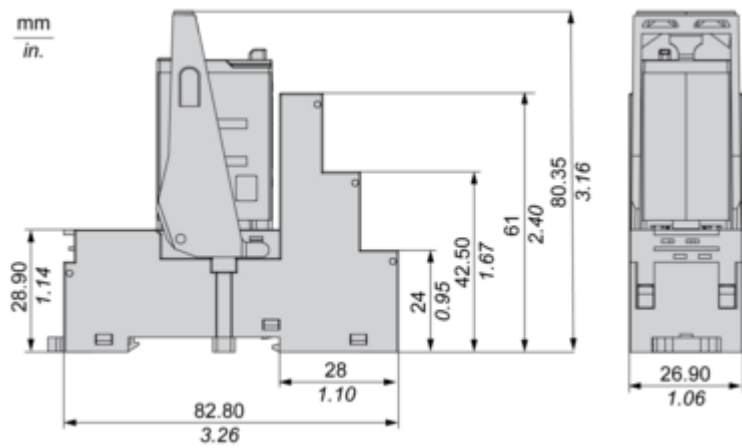
## Use Again



### Repack and remanufacture

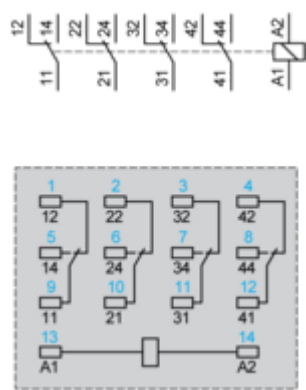
|                     |                                         |
|---------------------|-----------------------------------------|
| Circularity Profile | <a href="#">End of Life Information</a> |
| Take-back           | No                                      |

Dimensions



Connections and Schema

Wiring Diagram

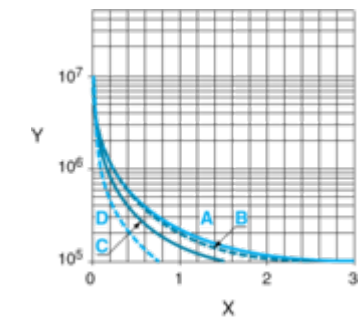


Symbols shown in blue correspond to Nema marking.

Performance Curves

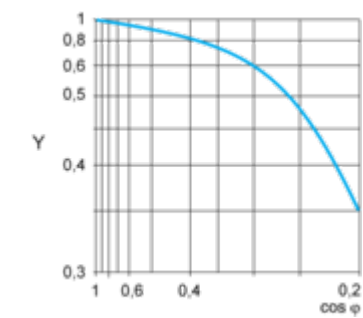
Electrical Durability of Contacts

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

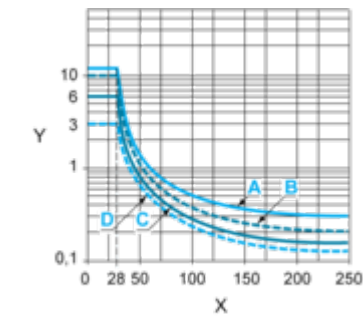


X Switching capacity (kVA)  
Y Durability (Number of operating cycles)  
A RXM2AB...  
B RXM3AB...  
C RXM4AB...  
D RXM4GB...

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



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



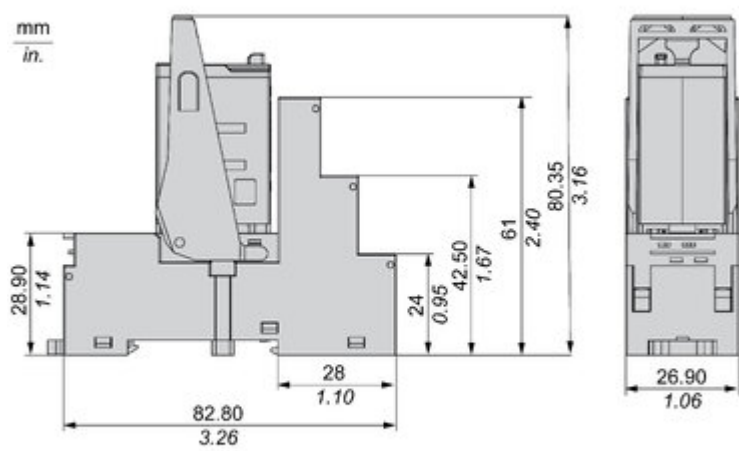
X Voltage DC  
Y Current DC  
A RXM2AB...  
B RXM3AB...  
C RXM4AB...  
D RXM4GB...

**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.



Technical Illustration

Dimensions



Offer Marketing Illustration

Product benefits / Features

### Features

Harmony RXMAB Relay



Pluggable relay module for easy replacement and retrofitting of relays



Conforms to international standards: IEC, CE, UL, CSA, EAC, Lloyd's, RoHS and REACH



Save time and cost with pre-assembled relays and push-in sockets



Add-on protection modules and timer relay for flexibility



Offer Marketing Illustration

Product benefits / Features

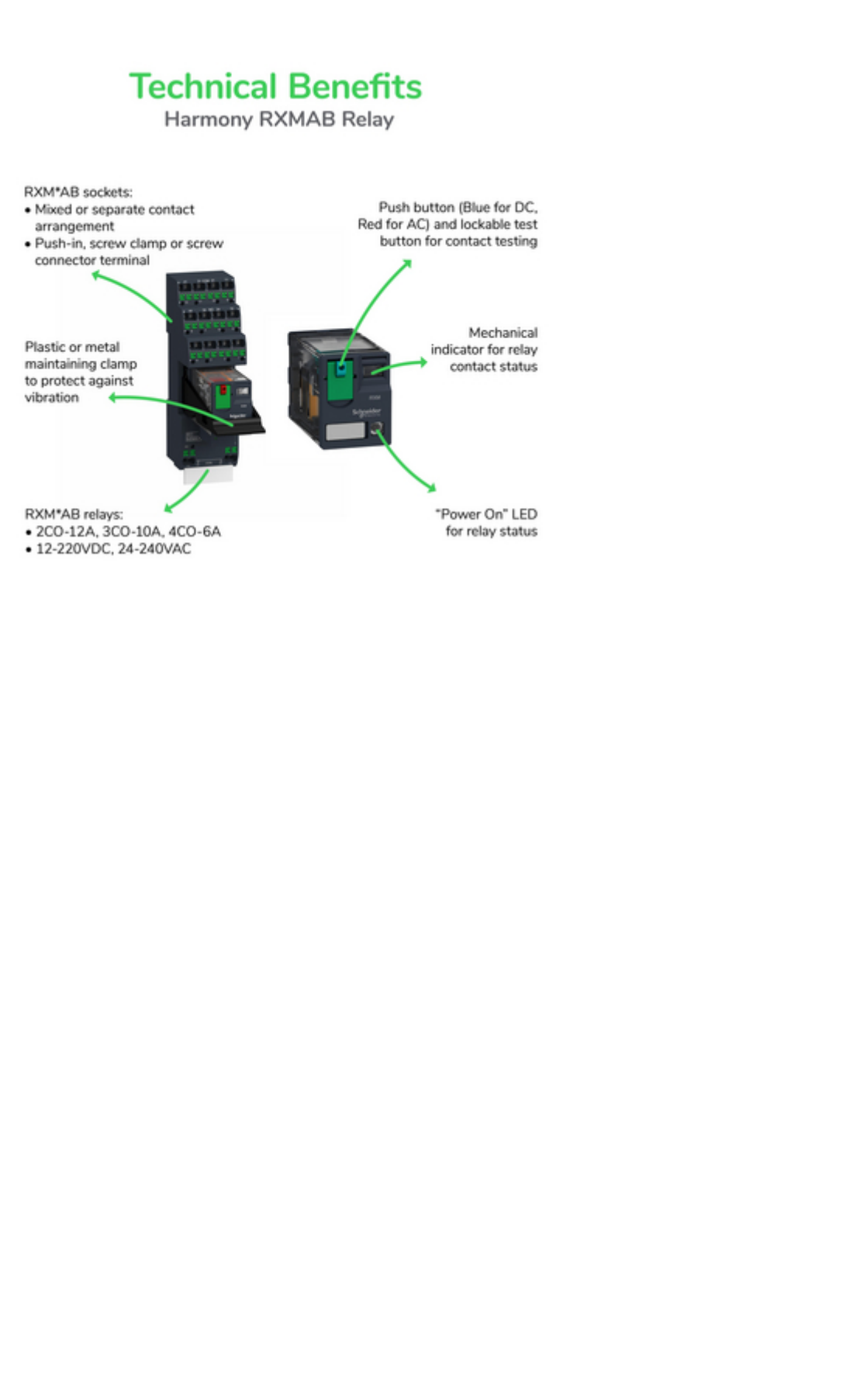


Image of product / Alternate images

Alternative

---



