

# Product data sheet

## Characteristics

# RXM2AB2B7PVM

Harmony, Miniature plug-in relay pre-assembled, 10 A, 2 CO, with LED, with lockable test button, mixed terminals socket, 24 V AC

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



Price\* : 23.82 USD



## Main

|                                              |                                         |
|----------------------------------------------|-----------------------------------------|
| Range of product                             | Harmony Electromechanical Relays        |
| Series name                                  | Miniature                               |
| Product or component type                    | Pre-assembled plug-in relay with socket |
| Device short name                            | RXM                                     |
| Contacts type and composition                | 2 C/O                                   |
| [Uc] control circuit voltage                 | 24 V AC 50/60 Hz                        |
| [Ithe] conventional enclosed thermal current | 10 A -40...131 °F (-40...55 °C)         |
| Status LED                                   | With                                    |
| Control type                                 | Lockable test button                    |
| Utilisation coefficient                      | 20 %                                    |

## Complementary

|                                        |                                                                                            |
|----------------------------------------|--------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage          | 250 V IEC                                                                                  |
| [Uimp] rated impulse withstand voltage | 4 kV 1.2/50 µs                                                                             |
| Contacts material                      | AgNi                                                                                       |
| [Ie] rated operational current         | 6 A 28 V DC) NC IEC<br>6 A 250 V AC) NC IEC<br>10 A 28 V DC) NO UL<br>10 A 250 V AC) NO UL |
| Minimum switching current              | 10 mA                                                                                      |
| Maximum switching voltage              | 250 V                                                                                      |
| Minimum switching voltage              | 17 V                                                                                       |
| Resistive rated load                   | 10 A 250 V AC<br>10 A 28 V DC                                                              |

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

Jul 30, 2021

|                                  |                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum switching capacity       | 2500 VA AC<br>280 W DC                                                                                                                                                                                                                                                                                                                                           |
| Minimum switching capacity       | 170 mW 10 mA, 17 V                                                                                                                                                                                                                                                                                                                                               |
| Operating rate                   | <= 1200 cycles/hour under load<br><= 18000 cycles/hour no-load                                                                                                                                                                                                                                                                                                   |
| Mechanical durability            | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                  |
| Electrical durability            | 100000 cycles resistive                                                                                                                                                                                                                                                                                                                                          |
| Average coil consumption in W    | 1.2 W, AC                                                                                                                                                                                                                                                                                                                                                        |
| Drop-out voltage threshold       | >= 0.3 U <sub>c</sub> AC                                                                                                                                                                                                                                                                                                                                         |
| Operate time                     | 20 ms                                                                                                                                                                                                                                                                                                                                                            |
| Release time                     | 20 ms                                                                                                                                                                                                                                                                                                                                                            |
| Average coil resistance          | 180 Ohm 20 °C +/- 10 %                                                                                                                                                                                                                                                                                                                                           |
| Rated operational voltage limits | 19.2...26.4 V AC                                                                                                                                                                                                                                                                                                                                                 |
| Safety reliability data          | B10d = 100000                                                                                                                                                                                                                                                                                                                                                    |
| Protection category              | RT I                                                                                                                                                                                                                                                                                                                                                             |
| Test levels                      | Level A                                                                                                                                                                                                                                                                                                                                                          |
| Operating position               | Any position                                                                                                                                                                                                                                                                                                                                                     |
| Sale per indivisible quantity    | 30                                                                                                                                                                                                                                                                                                                                                               |
| CAD overall width                | 1.06 in (26.9 mm)                                                                                                                                                                                                                                                                                                                                                |
| CAD overall height               | 3.11 in (79 mm)                                                                                                                                                                                                                                                                                                                                                  |
| CAD overall depth                | 3.09 in (78.45 mm)                                                                                                                                                                                                                                                                                                                                               |
| Connections - terminals          | Connector, 1 x 0.25...1 x 2.5 mm <sup>2</sup> AWG 22...AWG 14) flexible with cable end<br>Connector, 2 x 0.25...2 x 1 mm <sup>2</sup> AWG 22...AWG 17) flexible with cable end<br>Connector, 1 x 0.5...1 x 2.5 mm <sup>2</sup> AWG 20...AWG 14) solid without cable end<br>Connector, 2 x 0.5...2 x 1.5 mm <sup>2</sup> AWG 20...AWG 16) solid without cable end |
| Torque value                     | 8.85 lbf.in (1 N.m)                                                                                                                                                                                                                                                                                                                                              |
| Net Weight                       | 0.21 lb(US) (0.096 kg)                                                                                                                                                                                                                                                                                                                                           |
| Device presentation              | Complete product                                                                                                                                                                                                                                                                                                                                                 |

## Environment

|                                       |                                                                                                                      |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Dielectric strength                   | 1300 V AC between contacts with micro disconnection<br>2000 V AC between coil and contact<br>2000 V AC between poles |
| Product certifications                | CE<br>UL<br>CSA<br>EAC<br>Lloyd's                                                                                    |
| Standards                             | UL 508<br>EN/IEC 61810-1<br>CSA C22.2 No 14<br>IEC 61984                                                             |
| 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<br>5 gn +/- 1 mm 10...150 Hz)5 cycles not operating                  |
| IP degree of protection               | IP20 conforming to EN/IEC 60529                                                                                      |
| Shock resistance                      | 10 gn in operation<br>30 gn not operating                                                                            |
| Pollution degree                      | 2                                                                                                                    |

## Ordering and shipping details

|                       |                               |
|-----------------------|-------------------------------|
| Category              | 21127 - ZELIO ICE CUBE RELAYS |
| Discount Schedule     | CP2                           |
| GTIN                  | 03606489563165                |
| Nbr. of units in pkg. | 1                             |
| Package weight(Lbs)   | 3.17 oz (90 g)                |

|               |     |
|---------------|-----|
| Returnability | Yes |
|---------------|-----|

### Packing Units

|                        |                  |
|------------------------|------------------|
| Unit Type of Package 1 | PCE              |
| Package 1 Height       | 1.10 in (2.8 cm) |
| Package 1 width        | 3.15 in (8 cm)   |
| Package 1 Length       | 3.15 in (8 cm)   |

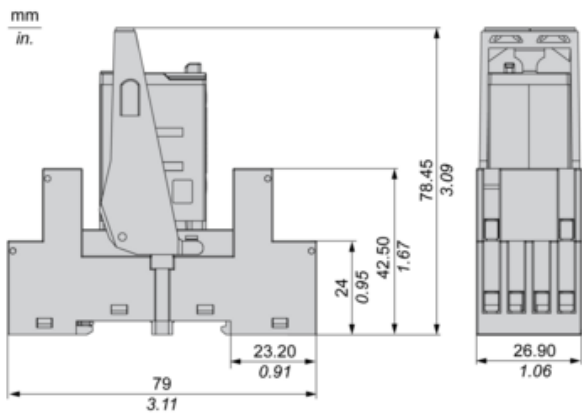
### Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                                                                                                  |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                                                                                                      |
| REACH free of SVHC         | Yes                                                                                                                                                                                                                                                                                                                                                                    |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                                                                                      |
| Toxic heavy metal free     | Yes                                                                                                                                                                                                                                                                                                                                                                    |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                                                                                                    |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                                                                                                    |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>                                                                                                                                                                                                                                                                                                                                 |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                                                                                          |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.                                                                                                                                                                                                                                           |

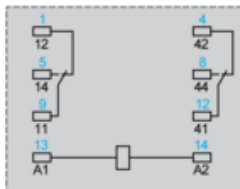
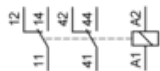
### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 Months |
|----------|-----------|

Dimensions



## Wiring Diagram

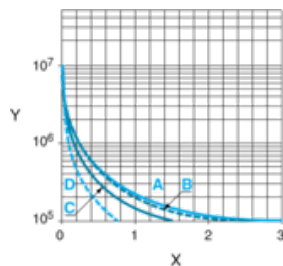


Symbols shown in blue correspond to Nema marking.

## 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)

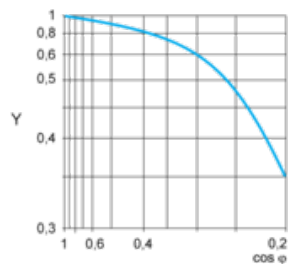
A RXM2AB...

B RXM3AB...

C RXM4AB...

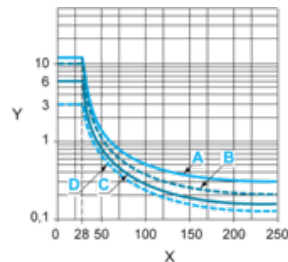
D RXM4GB...

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.