

# RXM4AB1BDPVM

Miniature plug-in relay pre-assembled, 6 A,  
4 CO, lockable test button, mixed terminal  
socket, 24 V DC



## Main

|                                              |                      |
|----------------------------------------------|----------------------|
| Range of product                             | Harmony Relay        |
| Series name                                  | Miniature            |
| Product or component type                    | Plug-in relay        |
| Device short name                            | RXM                  |
| Contacts type and composition                | 4 C/O                |
| [Uc] control circuit voltage                 | 24 V DC              |
| [Ithe] conventional enclosed thermal current | 6 A at -40...55 °C   |
| Status LED                                   | Without              |
| Control type                                 | Lockable test button |
| Utilisation coefficient                      | 20 %                 |

## Complementary

|                                        |                                                                                                                                                                                                           |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage          | 250 V conforming to IEC                                                                                                                                                                                   |
| [Uimp] rated impulse withstand voltage | 2.5 kV 1.2/50 µs                                                                                                                                                                                          |
| Contacts material                      | AgNi                                                                                                                                                                                                      |
| [Ie] rated operational current         | 3 A 28 V DC) NC IEC<br>3 A 250 V AC) NC IEC<br>6 A at 28 V (DC) NO conforming to IEC<br>6 A at 250 V (AC) NO conforming to IEC<br>6 A at 277 V (AC) conforming to UL<br>8 A at 30 V (DC) conforming to UL |
| Minimum switching current              | 10 mA                                                                                                                                                                                                     |
| Maximum switching voltage              | 250 V                                                                                                                                                                                                     |
| Minimum switching voltage              | 17 V                                                                                                                                                                                                      |
| Resistive rated load                   | 6 A at 250 V AC<br>6 A at 28 V DC                                                                                                                                                                         |
| Maximum switching capacity             | 1500 VA/168 W AC/DC                                                                                                                                                                                       |
| Minimum switching capacity             | 170 mW at 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 for resistive load                                                                                                                                                                          |
| Average coil consumption in W          | 0.9 W, DC                                                                                                                                                                                                 |
| Drop-out voltage threshold             | >= 0.1 Uc DC                                                                                                                                                                                              |
| Operate time                           | 20 ms                                                                                                                                                                                                     |
| Release time                           | 20 ms                                                                                                                                                                                                     |
| Average coil resistance                | 650 Ohm 20 °C +/- 10 %                                                                                                                                                                                    |
| Rated operational voltage limits       | 19.2...26.4 V DC                                                                                                                                                                                          |
| Safety reliability data                | B10d = 100000                                                                                                                                                                                             |
| Protection category                    | RT I                                                                                                                                                                                                      |
| Test levels                            | Level A group mounting                                                                                                                                                                                    |
| Operating position                     | Any position                                                                                                                                                                                              |
| Sale per indivisible quantity          | 30                                                                                                                                                                                                        |
| CAD overall width                      | 1.06 in (26.9 mm)                                                                                                                                                                                         |

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|                         |                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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)<br>8.8 lbf.in (0.99 N.m)                                                                                                                                                                                                                                                                                                                         |
| Net weight              | 0.21 lb(US) (0.096 kg)                                                                                                                                                                                                                                                                                                                                               |
| Device presentation     | Complete product                                                                                                                                                                                                                                                                                                                                                     |

## Environment

|                                       |                                                                                                                 |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Dielectric strength                   | 1300 V AC between contacts 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>RoHS<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...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                  | 03606489563127                |
| Nbr. of units in pkg. | 1                             |
| Package weight(Lbs)   | 1 lb(US) (0.45 kg)            |
| Returnability         | No                            |

## Packing Units

|                  |                     |
|------------------|---------------------|
| Package 1 Height | 3.11 in (79.000 mm) |
| Package 1 width  | 1.06 in (26.900 mm) |
| Package 1 Length | 3.09 in (78.450 mm) |

## Offer Sustainability

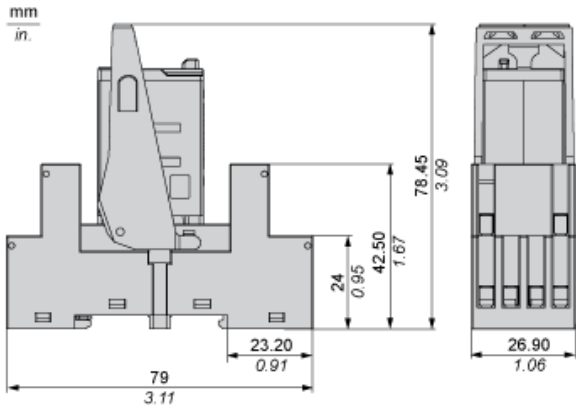
|                           |                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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)  <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                   |
| Toxic heavy metal free    | Yes                                                                                                                                                                                                                                                                                                                                                                    |
| Mercury free              | Yes                                                                                                                                                                                                                                                                                                                                                                    |

|                            |                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| RoHS exemption information |  Yes                                            |
| 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.    |

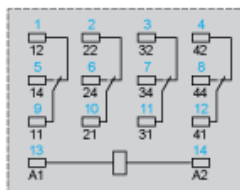
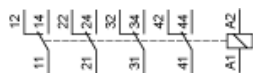
### Contractual warranty

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

Dimensions



## Wiring Diagram

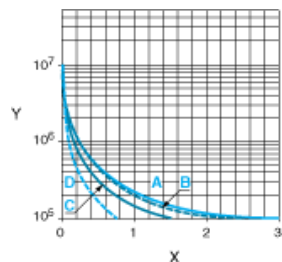


Symbols shown in blue correspond to Nema marking.

## Electrical Durability of Contacts

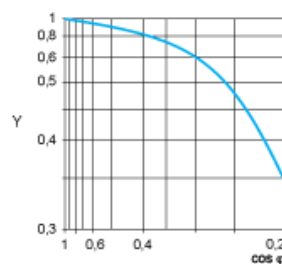
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



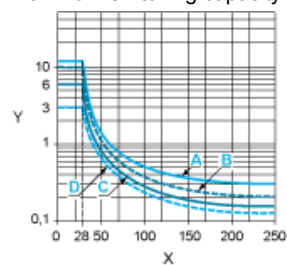
- X Switching capacity (kVA)  
Y Durability (Number of operating cycles)  
A RXM2AB...  
B RXM3AB...  
C RXM4AB...  
D RXM4GB...

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.