

# RXM3AB1FD

Harmony, Miniature plug-in relay, 10 A, 3 CO,  
with lockable test button, 110 V DC

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



Price\* : 6.95 USD



## Main

|                                              |                                  |
|----------------------------------------------|----------------------------------|
| Range of product                             | Harmony Electromechanical Relays |
| Series name                                  | Miniature                        |
| Product or component type                    | Plug-in relay                    |
| Device short name                            | RXM                              |
| Contacts type and composition                | 3 C/O                            |
| [Uc] control circuit voltage                 | 110 V DC                         |
| [Ithe] conventional enclosed thermal current | 10 A -40...131 °F (-40...55 °C)  |
| Status LED                                   | Without                          |
| Control type                                 | Lockable test button             |
| Utilisation coefficient                      | 20 %                             |

## Complementary

|                                        |                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Shape of pin                           | Flat                                                                                                                                  |
| [Ui] rated insulation voltage          | 250 V IEC<br>300 V CSA<br>300 V UL                                                                                                    |
| [Uimp] rated impulse withstand voltage | 4 kV 1.2/50 µs                                                                                                                        |
| Contacts material                      | AgNi                                                                                                                                  |
| [Ie] rated operational current         | 10 A 28 V DC) NO IEC<br>10 A 250 V AC) NO IEC<br>5 A 28 V DC) NC IEC<br>5 A 250 V AC) NC IEC<br>10 A 30 V DC) UL<br>10 A 277 V AC) UL |
| Maximum switching voltage              | 250 V IEC                                                                                                                             |
| Resistive rated load                   | 10 A 250 V AC                                                                                                                         |

\* 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

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
|                                  | 10 A 28 V DC                                                   |
| Maximum switching capacity       | 2500 VA/280 W                                                  |
| 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    | 0.9 W                                                          |
| Drop-out voltage threshold       | >= 0.1 U <sub>c</sub>                                          |
| Operate time                     | 20 ms                                                          |
| Release time                     | 20 ms                                                          |
| Average coil resistance          | 13440 Ohm 20 °C +/- 10 %                                       |
| Rated operational voltage limits | 88...121 V DC                                                  |
| Safety reliability data          | B10d = 100000                                                  |
| Protection category              | RT I                                                           |
| Test levels                      | Level A                                                        |
| Operating position               | Any position                                                   |
| CAD overall height               | 3.26 in (82.8 mm)                                              |
| CAD overall depth                | 3.16 in (80.35 mm)                                             |
| Net Weight                       | 0.08 lb(US) (0.037 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                | Lloyd's<br>UL<br>CE<br>CSA<br>GOST                                                                                   |
| Standards                             | UL 508<br>EN/IEC 61810-1<br>CSA C22.2 No 14                                                                          |
| 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               | IP40 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                  | 03389119403597                |
| Nbr. of units in pkg. | 1                             |
| Package weight(Lbs)   | 1.34 oz (38 g)                |
| Returnability         | No                            |
| Country of origin     | CN                            |

## Packing Units

|                        |                 |
|------------------------|-----------------|
| Unit Type of Package 1 | PCE             |
| Package 1 Height       | 1.61 in (41 mm) |

|                  |                 |
|------------------|-----------------|
| Package 1 width  | 1.10 in (28 mm) |
| Package 1 Length | 0.83 in (21 mm) |

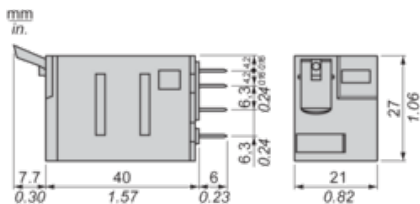
### Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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)<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.                                                                                                                                                                                                                                           |

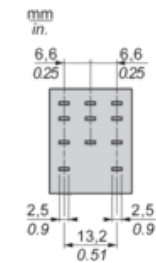
### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

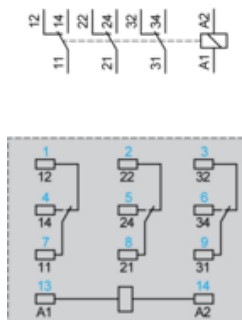
Dimensions



Pin Side View



## Wiring Diagram

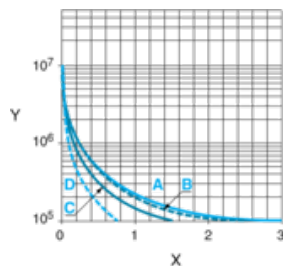


Symbols shown in blue correspond to Nema marking.

## 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)

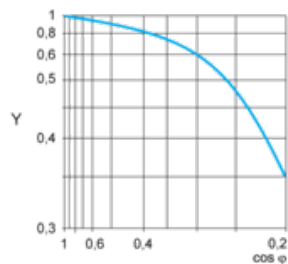
A RXM2AB...

B RXM3AB...

C RXM4AB...

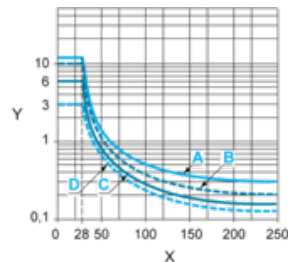
D RXM4GB...

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.