

miniature plug in relay, Harmony Electromechanical Relays, 12A, 2CO, lockable test but to n, 110V DC

RXM2AB1FD

Product availability: Stock - Normally stocked in distribution

**Price\***: 6.47 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	2 C/O
[Uc] control circuit voltage	110 V DC
Status LED	Without
Control type	Lockable test button
Utilisation coefficient	20 %

Complementary	
Shape of pin	Flat
[Ui] rated insulation voltage	250 V IEC 300 V CSA 300 V UL
[Uimp] rated impulse withstand voltage	4 kV 1.2/50 μs
Contacts material	AgNi
[le] rated operational current	12 A 28 V DC) NO IEC 12 A 250 V AC) NO IEC 6 A 28 V DC) NC IEC 6 A 250 V AC) NC IEC 12 A 28 V DC) UL 12 A 277 V AC) UL
Continuous output current	10 A
Maximum switching voltage	250 V IEC
Resistive rated load	12 A 250 V AC 12 A 28 V DC
Maximum switching capacity	3000 VA/336 W
Minimum switching capacity	170 mW 10 mA, 17 V
Operating rate	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load

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

Mechanical durability	10000000 cycles
Electrical durability	100000 cycles resistive
Average coil consumption	0.9 W
Drop-out voltage threshold	>= 0.1 Uc
Operate time	20 ms
Release time	20 ms
Average coil resistance	13440 Ohm 20 °C +/- 10 %
Rated operational voltage limits	88121 V DC
Safety reliability data	B10d = 100000
Protection category	RTI
Test levels	Level A group mounting
Operating position	Any position
Net Weight	0.08 lb(US) (0.037 kg)
Device presentation	Complete product

### **Environment**

Dielectric strength	1300 V AC between contacts with micro disconnection 2000 V AC between coil and contact with basic insulation 2000 V AC between poles with basic insulation
Product Certifications	Lloyd's CE CSA GOST UL
Standards	UL 508 IEC 61810-1 CSA C22.2 No 14
Ambient Air Temperature for Storage	-40185 °F (-4085 °C)
Ambient air temperature for operation	-40131 °F (-4055 °C)
Vibration resistance	3 gn +/- 1 mm 10150 Hz)5 cycles in operation 5 gn +/- 1 mm 10150 Hz)5 cycles not operating
IP degree of protection	IP40 conforming to IEC 60529
Shock resistance	10 gnin operation 30 gnnot operating
Pollution degree	3

# Ordering and shipping details

Category	21127-ZELIO ICE CUBE RELAYS
Discount Schedule	CP2
GTIN	3389119403436
Returnability	No
Country of origin	ID

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.87 in (2.2 cm)
Package 1 Width	1.10 in (2.8 cm)

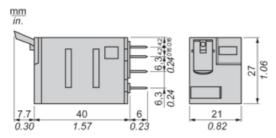
	1.02 in /4.0 cm)
Package 1 Length	1.93 in (4.9 cm)
Package 1 Weight	1.27 oz (36 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	1.34 in (3.4 cm)
Package 2 Width	4.13 in (10.5 cm)
Package 2 Length	5.00 in (12.7 cm)
Package 2 Weight	13.72 oz (389 g)
Unit Type of Package 3	S01
Number of Units in Package 3	120
Package 3 Height	5.91 in (15 cm)
Package 3 Width	5.91 in (15 cm)
Package 3 Length	15.75 in (40 cm)
	10.86 lb(US) (4.925 kg)
Package 3 Weight  Offer Sustainability	10.86 lb(US) (4.925 kg)
Offer Sustainability Sustainable offer status	Green Premium product  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
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	Green Premium product  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
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Offer Sustainability Sustainable offer status California proposition 65  REACh Regulation REACh free of SVHC EU RoHS Directive Toxic heavy metal free	Green Premium product  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  REACh Declaration  Yes  Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
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### Contractual warranty

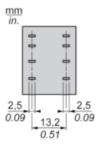
Warranty 18 months

**Dimensions Drawings** 

### **Dimensions**



Pin Side View



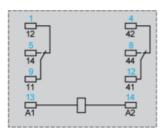
### **Product data sheet**

# RXM2AB1FD

Connections and Schema

### Wiring Diagram





Symbols shown in blue correspond to Nema marking.

### Product data sheet

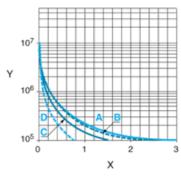
### RXM2AB1FD

**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)

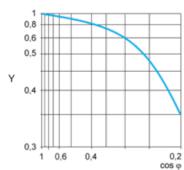
A RXM2AB•••

B RXM3AB•••

C RXM4AB•••

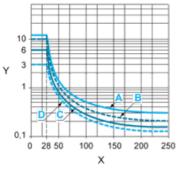
D RXM4GB•••

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



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.

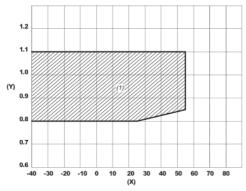
For inductive load, to increase relay life cycles, please add a proper load protection circuit (eg: RC protection/Varistor/free Wheeling diode -DC load only- ).

For low level loads (below 10mA), we recommend to use RXM\*GB series with bifurcated contacts relays instead.

**Performance Curves** 

### **Coil Operating Range**

### **DC Coil Operating Range VS Ambient Temperature**



X : Ambient temperature (°C)

Y: AC coil voltage (U/Uc)

(1) Permitted operating range area

### Recommended replacement(s)