Specifications



# miniature plug-in relay - Zelio RXM2L - 2 C/O - 12 V DC - 5 A without LED

RXM2LB1JD

### Main

Main	
Range of product	Harmony Electromechanical Relays
Series name	Miniature
Product or component type	Plug-in relay
Device short name	RXM
Coil interference suppression	Without
Utilisation coefficient	20 %
Sale per indivisible quantity	10
Complementary	

### Complementary

Complementary	
Contacts type and composition	2 C/O
Contact operation	Standard
[Uc] control circuit voltage	12 V DC
[Ithe] conventional enclosed thermal current	5 A at -4055 °C
Status LED	Without
Control type	Without push-button
[Ui] rated insulation voltage	250 V conforming to IEC
[Uimp] rated impulse withstand voltage	4 kV during 1.2/50 μs conforming to IEC 61810-7
Contacts material	Silver alloy (Ag/Ni)
[le] rated operational current	5 A (AC-1/DC-1) NO conforming to IEC 2.5 A (AC-1/DC-1) NC conforming to IEC 1 A at 28 V (DC-13) NO
Minimum switching current	10 mA
Maximum switching voltage	250 V AC 28 V DC
Minimum switching voltage	17 V
Load current	5 A at 250 V AC 5 A at 28 V DC
Maximum switching capacity	1250 VA AC 140 W DC
Minimum switching capacity	170 mW
Operating rate	<= 1200 cycles/hour under load



	<= 18000 cycles/hour no-load
Mechanical durability	1000000 cycles
Electrical durability	100000 cycles for resistive load 50000 cycles, 1 A at 28 V, DC-13 NO
Average coil consumption	0.9 W, DC
Drop-out voltage threshold	>= 0.1 Uc DC
Operating time	20 ms between coil de-energisation and making of the Off-delay contact 20 ms between coil energisation and making of the On-delay contact
Average resistance	160 Ohm at 23 °C +/- 10 %
Rated operational voltage limits	9.613.2 V DC
Protection category	RTI
Test levels	Level A group mounting
Operating position	Any position
CAD overall width	21 mm
CAD overall height	27 mm
CAD overall depth	46 mm
Net weight	0.032 kg
Dielectric strength	2000 V AC between coil and contact with basic insulation 2000 V AC between poles with basic insulation 1000 V AC between contacts with micro disconnection
Safety reliability data	B10d = 100000

### Environment

Standards	CE IEC 61810-1 (iss. 2)
Ambient air temperature for storage	-4085 °C
Ambient air temperature for operation	-4055 °C
Vibration resistance	3 gn, amplitude = +/- 1 mm (f = 1050 Hz)operating conforming to IEC 60068-2-6 6 gn, amplitude = +/- 1 mm (f = 1050 Hz)not operating conforming to IEC 60068-2-6
IP degree of protection	IP40 conforming to IEC 60529
Pollution degree	3
Shock resistance	30 gn for not operating conforming to IEC 60068-2-27 10 gn for in operation conforming to IEC 60068-2-27

### **Packing Units**

•	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.1 cm
Package 1 Width	2.1 cm
Package 1 Length	2.8 cm
Package 1 Weight	37 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3 cm
Package 2 Width	11.5 cm
Package 2 Length	10 cm

Package 2 Weight	390 g
Unit Type of Package 3	\$02
Number of Units in Package 3	270
Package 3 Height	15 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	12.605 kg

### **Offer Sustainability**

<u> </u>	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

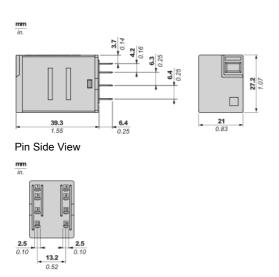
### **Contractual warranty**

Warranty

18 months

**Dimensions Drawings** 

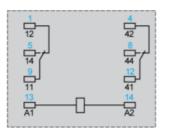
### Dimensions



# RXM2LB1JD

Connections and Schema

### Wiring Diagram



Symbols shown in blue correspond to Nema marking.

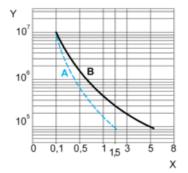
## RXM2LB1JD

Performance Curves

### **Electrical Durability of Contacts**

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

For 2 Poles Relay



X : Contact current (A)

Y : Durability (Number of operating cycles)

A : Inductive load

B: Resistive load

Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

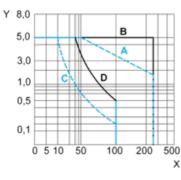
For inductive load, to increase relay life cycles, please add a proper load protection circuit (eg: RC protection/Varistor/free Wheeling diode -DC load only-)

RXM2LB1JD

Performance Curves

#### **Maximum Switching Capacity**

For 2 Poles Relay



- X: Contact voltage (v)
- Y : Contact current (A)

 $\mathbf{A}:$  Inductive AC load

B : Resistive AC load

C : Inductive DC load

D : Resistive DC load

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.

#### Recommended replacement(s)