Specifications



## miniature plug-in relay - Zelio RXM2L - 4 C/O - 230 V AC - 3 A with LED

RXM4LB2P7

#### Main

Harmony Electromechanical Relays
Miniature
Plug-in relay
RXM
Without
20 %
10

#### Complementary

Complementary	
Contacts type and composition	4 C/O
Contact operation	Standard
[Uc] control circuit voltage	230 V AC 50/60 Hz
[Ithe] conventional enclosed thermal current	3 A at -4055 °C
Status LED	With
Control type	Without push-button
[Ui] rated insulation voltage	250 V conforming to IEC
[Uimp] rated impulse withstand voltage	2.5 kV during 1.2/50 µs conforming to IEC 61810-7
Contacts material	Silver alloy (Ag/Ni)
[le] rated operational current	3 A (AC-1/DC-1) NO conforming to IEC 1.5 A (AC-1/DC-1) NC conforming to IEC
Minimum switching current	10 mA
Maximum switching voltage	250 V AC 28 V DC
Minimum switching voltage	17 V
Load current	3 A at 250 V AC 3 A at 28 V DC
Maximum switching capacity	750 VA AC 84 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
Average coil consumption in VA	1.2 AC
Drop-out voltage threshold	>= 0.15 Uc AC
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	16500 Ohm at 23 °C +/- 15 %
Rated operational voltage limits	184253 V AC
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 EN/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 EN/IEC 60068-2-6 6 gn, amplitude = +/- 1 mm (f = 1050 Hz)not operating conforming to EN/IEC 60068-2-6
IP degree of protection	IP40 conforming to EN/IEC 60529
Pollution degree	2
Shock resistance	30 gn for not operating conforming to EN/IEC 60068-2-27 10 gn for in operation conforming to EN/IEC 60068-2-27

#### **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.096 cm
Package 1 Width	2.757 cm
Package 1 Length	4.581 cm
Package 1 Weight	34.0 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3.1 cm
Package 2 Width	11.2 cm
Package 2 Length	13.6 cm
Package 2 Weight	0.361 kg
Unit Type of Package 3	S02

Number of Units in Package 3	270
Package 3 Height	15.0 cm
Package 3 Width	30.0 cm
Package 3 Length	40.0 cm
Package 3 Weight	10.301 kg

## Offer Sustainability

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**

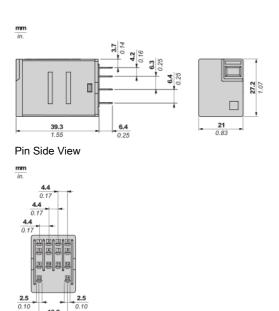
Warranty

18 months

**Dimensions Drawings** 

#### Dimensions

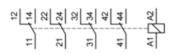
13.2 0.52

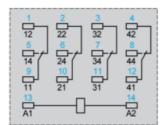


## RXM4LB2P7

Connections and Schema

#### Wiring Diagram





Symbols shown in blue correspond to Nema marking.

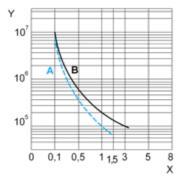
## RXM4LB2P7

Performance Curves

#### **Electrical Durability of Contacts**

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

For 4 Poles Relay



X : Contact current (A)

Y : Durability (Number of operating cycles)

A : Inductive load

B: Resistive load

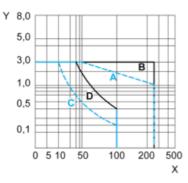
Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

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-)

Performance Curves

#### **Maximum Switching Capacity**

For 4 Poles Relay



X: Contact voltage (v)

Y: Contact current (A)

 $\mathbf{A}:$  Inductive AC load

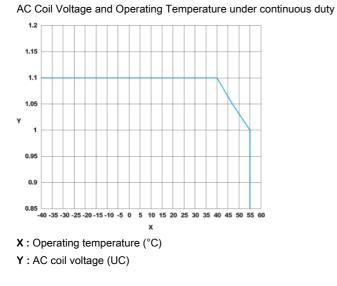
B : Resistive AC load

 $\boldsymbol{C}$  : 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-)



Recommended replacement(s)