

# Product datasheet

Specifications



## miniature plug-in relay - Zelio RXM2L - 2 C/O - 24 V DC - 5 A - without LED

RXM2LB1BD

### 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

Contacts type and composition	2 C/O
Contact operation	Standard
[Uc] control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	5 A at -40...55 °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)
[Ie] 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

<b>Mechanical durability</b>	10000000 cycles
<b>Electrical durability</b>	100000 cycles for resistive load 50000 cycles, 1 A at 28 V, DC-13 NO
<b>Average coil consumption</b>	0.9 W, DC
<b>Drop-out voltage threshold</b>	>= 0.1 U <sub>c</sub> DC
<b>Operating time</b>	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
<b>Average resistance</b>	640 Ohm at 23 °C +/- 10 %
<b>Rated operational voltage limits</b>	19.2...26.4 V DC
<b>Protection category</b>	RT I
<b>Test levels</b>	Level A group mounting
<b>Operating position</b>	Any position
<b>CAD overall width</b>	21 mm
<b>CAD overall height</b>	27 mm
<b>CAD overall depth</b>	46 mm
<b>Product weight</b>	0.032 kg
<b>Dielectric strength</b>	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
<b>Safety reliability data</b>	B10d = 100000

## Environment

<b>Standards</b>	CE EN/IEC 61810-1 (iss. 2)
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Ambient air temperature for operation</b>	-40...55 °C
<b>Vibration resistance</b>	3 gn, amplitude = +/- 1 mm (f = 10...50 Hz)operating conforming to EN/IEC 60068-2-6 6 gn, amplitude = +/- 1 mm (f = 10...50 Hz)not operating conforming to EN/IEC 60068-2-6
<b>IP degree of protection</b>	IP40 conforming to EN/IEC 60529
<b>Pollution degree</b>	3
<b>Shock resistance</b>	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

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	4.1 cm
<b>Package 1 Width</b>	2.1 cm
<b>Package 1 Length</b>	2.8 cm
<b>Package 1 Weight</b>	37.0 g
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	10
<b>Package 2 Height</b>	4.1 cm
<b>Package 2 Width</b>	2.1 cm
<b>Package 2 Length</b>	2.8 cm

Package 2 Weight	390.0 g
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	10.445 kg

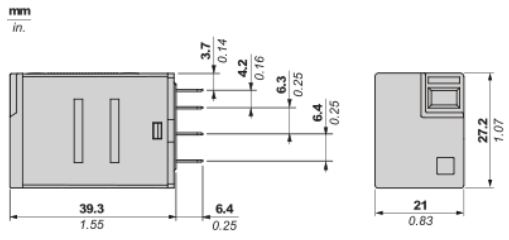
## Offer Sustainability

Sustainable offer status	Green Premium product
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
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	Yes
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

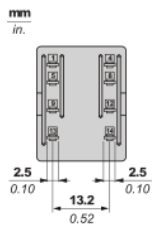
## Contractual warranty

Warranty	12 months
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## Dimensions

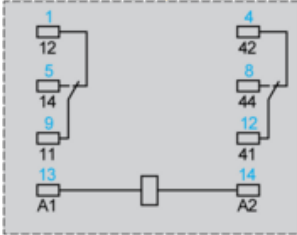
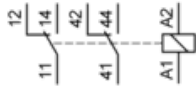


Pin Side View



## Wiring Diagram

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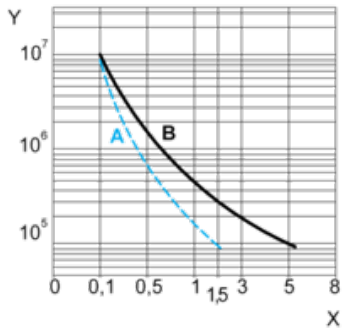
Symbols shown in blue correspond to Nema marking.

**Electrical Durability of Contacts**

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**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

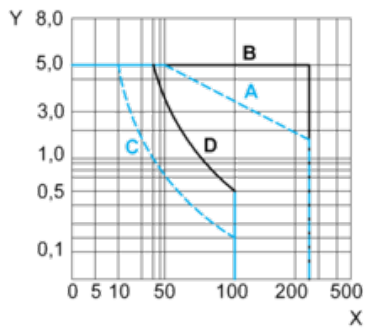
**Note** : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

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- )

**Maximum Switching Capacity**

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For 2 Poles Relay



X : Contact voltage (v)

Y : Contact current (A)

A : Inductive AC load

B : Resistive AC load

C : Inductive DC load

D : Resistive DC load

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**Recommended replacement(s)**