

# Product datasheet

Specifications



## miniature plug-in relay - Zelio RXM2L - 4 C/O - 230 V AC - 3 A - without LED

RXM4LB1P7

### 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	4 C/O
Contact operation	Standard
[Uc] control circuit voltage	230 V AC 50/60 Hz
[Ithe] conventional enclosed thermal current	3 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	2.5 kV during 1.2/50 µs conforming to IEC 61810-7
Contacts material	Silver alloy (Ag/Ni)
[Ie] 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	10000000 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	184...253 V AC
Protection category	RT I
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	EN/IEC 61810-1 (iss. 2) CE
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-40...55 °C
Vibration resistance	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
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	2.1 cm
Package 1 Width	2.7 cm
Package 1 Length	4.5 cm
Package 1 Weight	33.0 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	S02

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	10.985 kg

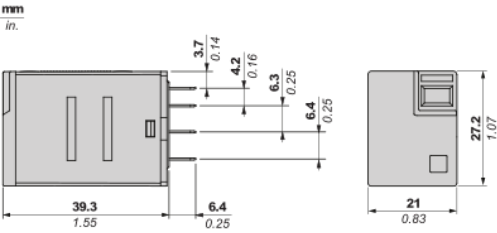
Offer Sustainability

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	<a href="#">Yes</a>
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

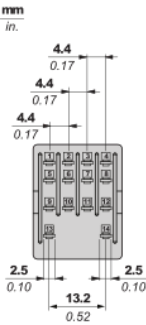
Contractual warranty

Warranty	18 months
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Dimensions



Pin Side View



Wiring Diagram

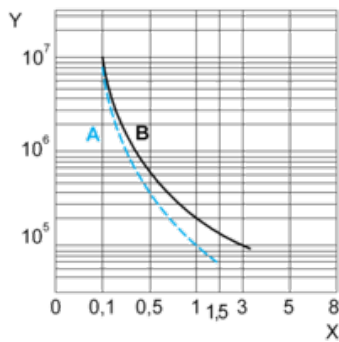


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

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

For 4 Poles Relay

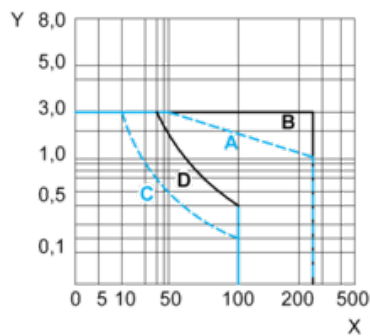


- X : Contact current (A)
- Y : Durability (Number of operating cycles)
- A : Inductive load
- B : Resistive load

**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- )

Maximum Switching Capacity

For 4 Poles Relay



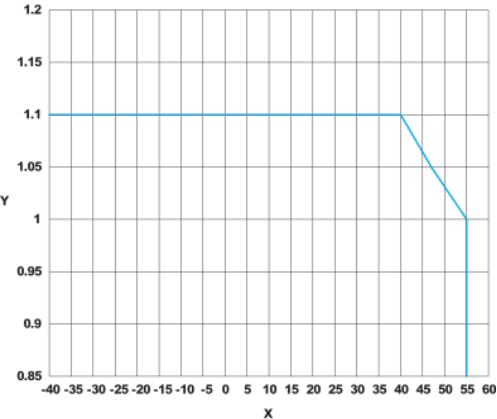
- X : Contact voltage (v)
- Y : Contact current (A)
- A : Inductive AC load
- B : Resistive AC load
- C : Inductive DC load
- D : Resistive DC load

**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.

AC Coil Voltage and Operating Temperature under continuous duty



X : Operating temperature (°C)

Y : AC coil voltage (UC)

Recommended replacement(s)