

Product datasheet

Specifications



miniature plug-in relay - Zelio RXM4L - 4 C/O - 12 V DC - 3 A - with LED

RXM4LB2JD

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

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| Contacts type and composition | 4 C/O |
| Contact operation | Standard |
| [Uc] control circuit voltage | 12 V DC |
| [Ithe] conventional enclosed thermal current | 3 A at -40...55 °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) |
| [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 |

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| Mechanical durability | 10000000 cycles |
| Electrical durability | 100000 cycles for resistive load |
| 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 | 9.6...13.2 V DC |
| 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 | 0.035 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

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| Standards | 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 IEC 60068-2-6 6 gn, amplitude = +/- 1 mm (f = 10...50 Hz)not operating conforming to IEC 60068-2-6 |
| IP degree of protection | IP40 conforming to IEC 60529 |
| Pollution degree | 2 |
| 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

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|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 3.2 cm |
| Package 1 Width | 1.03 cm |
| Package 1 Length | 1.26 cm |
| Package 1 Weight | 40.0 g |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 3.0 cm |
| Package 2 Width | 10.3 cm |
| Package 2 Length | 12.7 cm |
| Package 2 Weight | 444.4 g |
| Unit Type of Package 3 | CAR |

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|------------------------------|-----------|
| Number of Units in Package 3 | 270 |
| Package 3 Height | 15.0 cm |
| Package 3 Width | 30.0 cm |
| Package 3 Length | 39.7 cm |
| Package 3 Weight | 11.999 kg |

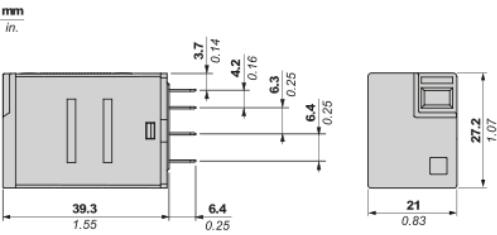
Offer Sustainability

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|----------------------------|---|
| 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 |

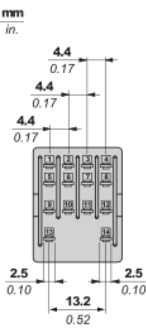
Contractual warranty

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| Warranty | 18 months |
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Dimensions



Pin Side View



Wiring Diagram

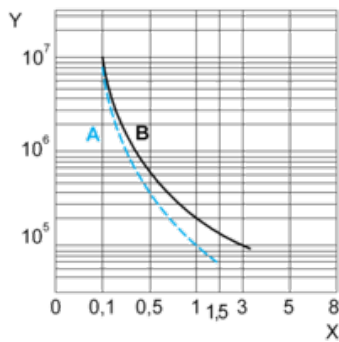


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

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

For 4 Poles Relay

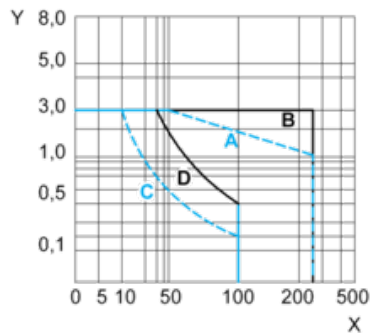


- X : Contact current (A)
- Y : Durability (Number of operating cycles)
- A : Inductive load
- B : Resistive load

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.

Recommended replacement(s)