# Product data sheet
## Characteristics

# RXM2AB1B7
miniature plug in relay, Harmony Electromechanical Relays, 12A, 2CO, without LED, with lockable test button, flat (faston type), 24V AC




## Main

| | |
|---|---|
| Range of product | Harmony Electromechanical Relays |
| Series name | RXM series |
| Product or component type | Plug-in relay |
| Relay type | Miniature relay |
| Contacts type and composition | 2 C/O |
| Status LED | Without |
| Control type | Lockable test button |
| [Uc] control circuit voltage | 24 V AC 50/60 Hz |
| [Ithe] conventional enclosed thermal current | 12 A |
| Continuous output current | 10 A |

## Complementary

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|---|---|
| [Uimp] rated impulse withstand voltage | 4 KV during 1.2/50 µs |
| [Ie] rated operational current | 12 A at 28 V (DC) NO conforming to IEC<br>12 A at 250 V (AC) NO conforming to IEC<br>6 A at 28 V (DC) NC conforming to IEC<br>6 A at 250 V (AC) NC conforming to IEC<br>12 A at 28 V (DC) conforming to UL<br>12 A at 277 V (AC) conforming to UL |
| Minimum switching capacity | 170 mW at 10 mA, 17 V |
| Electrical durability | 100000 Cycles for resistive load |
| Average coil consumption in VA | 1.2 at 60 Hz |
| Rated operational voltage limits | 19.2...26.4 V AC |
| [Ui] rated insulation voltage | 250 V conforming to IEC<br>300 V conforming to CSA<br>300 V conforming to UL |
| Average consumption | 1.2 VA at 60 Hz |
| Maximum switching voltage | 250 V conforming to IEC |
| Drop-out voltage threshold | >= 0.15 Uc |
| Load current | 12 A at 250 V AC<br>12 A at 28 V DC |
| Operating time | 20 ms |
| Maximum switching capacity | 3000 VA/336 W |
| Average resistance | 180 Ohm at 20 °C +/- 15 % |
| Mechanical durability | 10000000 Cycles |
| Safety reliability data | B10d = 100000 |

| | |
|---|---|
| Operating rate | <= 1200 cycles/hour under load<br><= 18000 cycles/hour no-load |
| Utilisation coefficient | 20 % |
| Reset time | 20 Ms |
| Dielectric strength | 1300 V AC between contacts with micro disconnection<br>2000 V AC between coil and contact with basic insulation<br>2000 V AC between poles with basic insulation |
| Compatibility code | RXM |
| Protection category | RT I |
| Pollution degree | 3 |
| Operating position | Any position |
| Test levels | Level A group mounting |
| Device presentation | Complete product |
| Contacts material | AgNi |
| Shape of pin | Flat (faston type) |
| Net weight | 0.037 Kg |

## Environment

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|---|---|
| Ambient air temperature for operation | -40…55 °C |
| IP degree of protection | IP40 conforming to IEC 60529 |
| Standards | IEC 61810-1<br>CSA C22.2 No 14<br>UL 508 |
| Product certifications | UL[RETURN]Lloyd's[RETURN]CE[RETURN]CSA[RETURN]GOST[RETURN]IECEE CB Scheme |
| Ambient air temperature for storage | -40…85 °C |
| Vibration resistance | 3 gn, amplitude = +/- 1 mm (f = 10…150 Hz)5 cycles in operation<br>5 gn, amplitude = +/- 1 mm (f = 10…150 Hz)5 cycles not operating |
| Shock resistance | 10 gn for in operation<br>30 gn for not operating |

## Packing Units

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|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.7 Cm |
| Package 1 Width | 2.1 Cm |
| Package 1 Length | 2.72 Cm |
| Package 1 Weight | 36 G |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 3 Cm |
| Package 2 Width | 10.2 Cm |
| Package 2 Length | 12.5 Cm |
| Package 2 Weight | 391 G |
| Unit Type of Package 3 | S02 |
| Number of Units in Package 3 | 240 |
| Package 3 Height | 15 Cm |
| Package 3 Width | 30 Cm |
| Package 3 Length | 40 Cm |
| Package 3 Weight | 9.861 Kg |

## Offer Sustainability

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|---|---|
| Recyclability potential, in % | 55 |
| Total lifecycle Carbon footprint | 19 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.284825867 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.3 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.0046448158 |
| Carbon footprint of the distribution phase [A4] | 0 kg CO2 eq. |

| | |
|---|---|
| Carbon footprint of the installation phase [A5] | 0.0002201466 |
| Carbon footprint of the installation phase [A5] | 0 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 18.3299946528 |
| REACh free of SVHC | Yes |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 18 kg CO2 eq. |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.0047091588 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 19 |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| REACh Regulation | Free of Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Nickel compounds, which is k |
| End of life manual availability | End Of Life Information |
| Take-back | No |

## Contractual warranty

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|---|---|
| Warranty (in months) | 18 |

Product Life Status : Commercialised