# Product data sheet
## Characteristics

# RSB1A120M7
interface plug in relay, Harmony Electromechanical Relays, 12A, 1CO, without LED, without lockable test button, 220V AC



## Main

| | |
|---|---|
| Range of product | Harmony Electromechanical Relays |
| Series name | RSB series |
| Product or component type | Plug-in relay |
| Relay type | Interface relay |
| Contacts type and composition | 1 C/O |
| Status LED | Without |
| [Uc] control circuit voltage | 220 V AC 50/60 Hz |
| Control type | Without lockable test button |
| [Ithe] conventional enclosed thermal current | 12 A at -40…40 °C |

## Complementary

| | |
|---|---|
| Average resistance | 33000 Ohm network: AC at 20 °C +/- 10 % |
| [Ue] rated operational voltage | 176...330 V AC 50/60 Hz |
| [Uimp] rated impulse withstand voltage | 3.6 KV conforming to IEC 61000-4-5 |
| [Ie] rated operational current | 12 A (AC-1/DC-1) NO conforming to IEC<br>6 A (AC-1/DC-1) NC conforming to IEC |
| [Ui] rated insulation voltage | 400 V conforming to IEC 60947 |
| Maximum switching voltage | 300 V DC conforming to IEC |
| Drop-out voltage threshold | >= 0.15 Uc AC |
| Load current | 12 A at 250 V AC<br>12 A at 28 V DC |
| Minimum switching current | 10 MA |
| Maximum switching capacity | 3000 VA/336 W |
| Switching voltage | 12 V |
| Minimum switching capacity | 120 mW at 10 mA, 12 V |
| Operating time | 20 ms operating<br>20 ms reset |
| Mechanical durability | 10000000 Cycles |
| Electrical durability | 100000 Cycles, 12 A at 250 V, AC-1 NO<br>100000 Cycles, 6 A at 250 V, AC-1 NC |
| Safety reliability data | B10d = 100000 |
| Operating rate | <= 600 cycles/hour under load<br><= 18000 cycles/hour no-load |
| Average coil consumption | 0.75 VA AC |
| Presentation of legend | Without |
| Protection category | RT I |
| Operating position | Any position |

| | |
|---|---|
| Test levels | Level A group mounting |
| Device presentation | Complete product |
| Sale per indivisible quantity | 10 |
| Contacts material | Silver alloy (AgNi) |
| Shape of pin | Flat (PCB type) |
| Net weight | 0.014 Kg |
| Compatibility code | RSB |

## Environment

| | |
|---|---|
| Dielectric strength | 1000 V AC between contacts<br>2500 V AC between poles<br>5000 V AC between coil and contact |
| Vibration resistance | +/- 1 mm (f= 10…55 Hz) conforming to IEC 60068-2-6 |
| IP degree of protection | IP40 conforming to IEC 60529 |
| Ambient air temperature for operation | -40…70 °C (AC) |
| Standards | IEC 61810-1<br>UL 508<br>CSA C22.2 No 14 |
| Product certifications | CSA[RETURN]EAC[RETURN]UL |
| Ambient air temperature for storage | -40…85 °C |
| Shock resistance | 10 gn (duration = 11 ms) for not operating conforming to IEC 60068-2-27<br>5 gn (duration = 11 ms) for in operation conforming to IEC 60068-2-27 |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.200 Cm |
| Package 1 Width | 2.500 Cm |
| Package 1 Length | 31.000 Cm |
| Package 1 Weight | 12.000 G |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 2.200 Cm |
| Package 2 Width | 2.500 Cm |
| Package 2 Length | 31.000 Cm |
| Package 2 Weight | 139.000 G |
| Unit Type of Package 3 | S01 |
| Number of Units in Package 3 | 350 |
| Package 3 Height | 15.000 Cm |
| Package 3 Width | 15.000 Cm |
| Package 3 Length | 40.000 Cm |
| Package 3 Weight | 5.260 Kg |

## Offer Sustainability

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|---|---|
| Recyclability potential, in % | 75 |
| Total lifecycle Carbon footprint | 7 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.1335755258 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.1 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.0019614723 |
| Carbon footprint of the distribution phase [A4] | 0 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.0000964245 |
| Carbon footprint of the installation phase [A5] | 0 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 7.3045550228 |
| REACh free of SVHC | Yes |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 7 kg CO2 eq. |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |

| | |
|---|---|
| Sustainable packaging | No |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.0250506692 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 7 |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | No |
| SCIP Number | 45b41055-6c52-408d-9c0c-5c663b810f29 |
| 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 | No need of specific recycling operations |
| Take-back | No |

## Contractual warranty

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

Product Life Status : Commercialised