# Product data sheet
## Characteristics

# RPM42JD
plug-in relay, Harmony electromechanical relays, 15A, 4CO, with LED, lockable test button, 12V DC




## Main

| | |
|---|---|
| Range of product | Harmony Electromechanical Relays |
| Series name | Power |
| Product or component type | Plug-in relay |
| Device short name | RPM |
| Contacts type and composition | 4 C/O |
| Status LED | With |
| Minimum switching capacity | 170 mW at 10 mA, 17 V |
| Reset time | 20 Ms at nominal voltage |
| Ambient air temperature for operation | -40…55 °C |
| [Ithe] conventional enclosed thermal current | 15 A at -40…55 °C |

## Complementary

| | |
|---|---|
| [Uc] control circuit voltage | 12 V DC |
| Control type | Lockable test button |
| [Ie] rated operational current | 15 A at 277 V (AC) conforming to UL<br>15 A at 28 V (DC) conforming to UL<br>15 A at 250 V (AC) NO conforming to IEC<br>15 A at 28 V (DC) NO conforming to IEC<br>7.5 A at 250 V (AC) NC conforming to IEC<br>7.5 A at 28 V (DC) NC conforming to IEC |
| IP degree of protection | IP40 conforming to IEC 60529 |
| Rated operational voltage limits | 9.6...13.2 V DC |
| [Ui] rated insulation voltage | 250 V conforming to IEC<br>300 V conforming to CSA<br>300 V conforming to UL |
| Maximum switching voltage | 250 V conforming to IEC |
| Drop-out voltage threshold | >= 0.1 Uc DC |
| Average coil consumption | 1.6 W |
| Average resistance | 75.8 Ohm at 20 °C +/- 10 % |
| Maximum switching capacity | 3750 VA<br>420 W |
| Load current | 15 A at 250 V AC<br>15 A at 28 V DC |
| Operating time | 20 ms at nominal voltage |
| Mechanical durability | 10000000 Cycles |
| Electrical durability | 100000 Cycles for resistive load |
| Safety reliability data | B10d = 100000 |
| Operating rate | <= 1200 cycles/hour under load<br><= 18000 cycles/hour no-load |

| | |
|---|---|
| Utilisation coefficient | 20 % |
| Dielectric strength | 1500 V AC between contacts with micro disconnection<br>2000 V AC between coil and contact with reinforced<br>2000 V AC between poles with basic |
| [Uimp] rated impulse withstand voltage | 4 KV during 1.2/50 µs |
| Protection category | RT I |
| Operating position | Any position |
| Test levels | Level A group mounting |
| Device presentation | Complete product |
| Contacts material | AgNi |
| Shape of pin | Flat |
| Net weight | 0.071 Kg |

## Environment

| | |
|---|---|
| Pollution degree | 3 |
| Standards | CSA C22.2 No 14<br>IEC 61810-1<br>UL 508 |
| Product certifications | EAC[RETURN]CSA[RETURN]UL |
| 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 | 15 gn for in operation<br>30 gn for not operating |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 3.0 Cm |
| Package 1 Width | 4.0 Cm |
| Package 1 Length | 5.0 Cm |
| Package 1 Weight | 70.8 G |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 3.0 Cm |
| Package 2 Width | 10.5 Cm |
| Package 2 Length | 22.5 Cm |
| Package 2 Weight | 756.0 G |
| Unit Type of Package 3 | S01 |
| Number of Units in Package 3 | 40 |
| Package 3 Height | 15 Cm |
| Package 3 Width | 15 Cm |
| Package 3 Length | 40 Cm |
| Package 3 Weight | 3.161 Kg |

## Offer Sustainability

| | |
|---|---|
| Recyclability potential, in % | 67 |
| Total lifecycle Carbon footprint | 26 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.7587246102399756 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.8 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.039477890043999805 |
| Carbon footprint of the distribution phase [A4] | 0 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.00017262674707218775 |
| Carbon footprint of the installation phase [A5] | 0 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 24.973404150708596 |
| REACh free of SVHC | Yes |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 25 kg CO2 eq. |

| | |
|---|---|
| Sustainable packaging | Yes |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.1269793414579749 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.1 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 26 |
| 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 | No need of specific recycling operations |
| Take-back | No |

## Contractual warranty

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

Product Life Status : Commercialised