# Product data sheet
## Characteristics

# RPM21P7
plug-in relay, Harmony electromechanical relays, 15A, 2CO, lockable test button, 230V AC


## 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 | 2 C/O |
| [Uc] control circuit voltage | 230 V AC 50/60 Hz |
| [Ithe] conventional enclosed thermal current | 15 A -40…131 °F (-40…55 °C) |
| Status LED | Without |
| Control type | Lockable test button |
| Utilisation coefficient | 20 % |

## Complementary

| | |
|---|---|
| Shape of pin | Flat |
| [Ui] rated insulation voltage | 250 V IEC<br>300 V CSA<br>300 V UL |
| [Uimp] rated impulse withstand voltage | 4 kV 1.2/50 µs |
| Contacts material | AgNi |
| [Ie] rated operational current | 15 A 277 V AC) UL<br>15 A 28 V DC) UL<br>15 A 250 V AC) NO IEC<br>15 A 28 V DC) NO IEC<br>7.5 A 250 V AC) NC IEC<br>7.5 A 28 V DC) NC IEC |
| Maximum switching voltage | 250 V IEC |
| Resistive load current | 15 A 250 V AC<br>15 A 28 V DC |
| Maximum switching capacity | 3750 VA<br>420 W |
| Minimum switching capacity | 170 mW 10 mA, 17 V |
| Operating rate | <= 1200 cycles/hour under load<br><= 18000 cycles/hour no-load |
| Mechanical durability | 10000000 cycles |
| Electrical durability | 100000 cycles resistive |
| Average coil consumption in VA | 1.1 60 Hz |
| Drop-out voltage threshold | >= 0.15 Uc AC |
| Operate time | 20 ms at nominal voltage |
| Release time | 20 ms at nominal voltage |
| Average coil resistance | 16270 Ohm at 68 °F (20 °C) +/- 15 % |
| Rated operational voltage limits | 184...253 V AC |
| Protection category | RT I |
| Test levels | Level A group mounting |
| Operating position | Any position |
| Pollution degree | 3 |
| Safety reliability data | B10d = 100000 |

| | |
|---|---|
| Net Weight | 0.08 lb(US) (0.036 kg) |
| Device presentation | Complete product |

## Environment

| | |
|---|---|
| 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 |
| Standards | IEC 61810-1<br>UL 508<br>CSA C22.2 No 14 |
| Product Certifications | UL[RETURN]EAC[RETURN]CSA |
| Ambient Air Temperature for Storage | -40…185 °F (-40…85 °C) |
| Ambient air temperature for operation | -40…131 °F (-40…55 °C) |
| Vibration resistance | 3 gn +/- 1 mm 10…150 Hz)5 cycles in operation<br>5 gn +/- 1 mm 10…150 Hz)5 cycles not operating |
| Degree of protection (Housing only) | IP40 conforming to IEC 60529 |
| Shock resistance | 15 gnin operation<br>30 gnnot operating |

## Ordering and shipping details

| | |
|---|---|
| Category | 21127-ZELIO ICE CUBE RELAYS |
| Discount Schedule | CP2 |
| GTIN | 3389119401876 |
| Returnability | Yes |
| Country of origin | CN |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.85 in (4.7 cm) |
| Package 1 Width | 0.83 in (2.1 cm) |
| Package 1 Length | 1.10 in (2.8 cm) |
| Package 1 Weight | 1.34 oz (38 g) |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 1.26 in (3.2 cm) |
| Package 2 Width | 4.06 in (10.3 cm) |
| Package 2 Length | 4.96 in (12.6 cm) |
| Package 2 Weight | 13.86 oz (393 g) |
| Unit Type of Package 3 | S02 |
| Number of Units in Package 3 | 240 |
| Package 3 Height | 5.91 in (15 cm) |
| Package 3 Width | 11.81 in (30 cm) |
| Package 3 Length | 15.75 in (40 cm) |
| Package 3 Weight | 22.06 lb(US) (10.008 kg) |

## Offer Sustainability

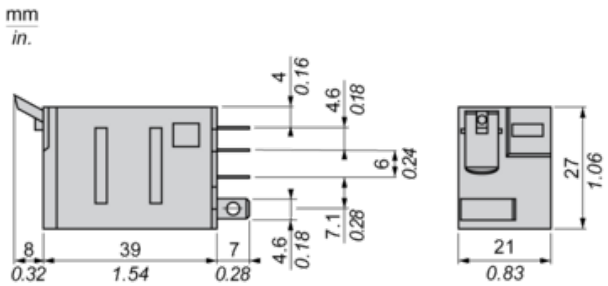
| | |
|---|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| 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 |

| | |
|---|---|
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | No need of specific recycling operations |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

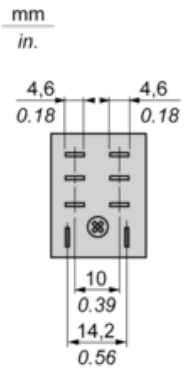
## Contractual warranty

| | |
|---|---|
| Warranty | 18 months |

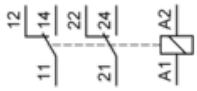
## Dimensions

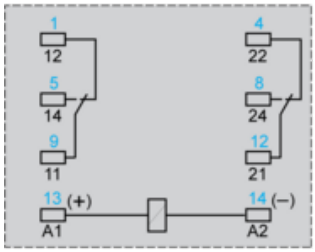



Pin Side View



## Wiring Diagram



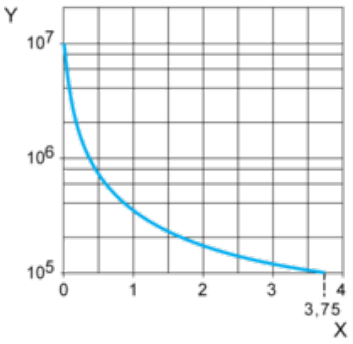




Symbols shown in blue correspond to Nema marking.

## Electrical Durability of Contacts

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

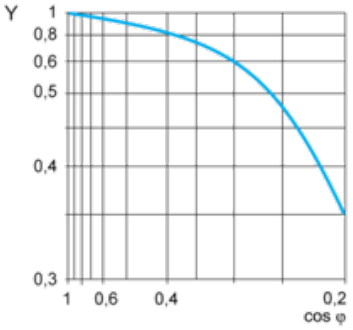
Resistive AC load




X Switching capacity (kVA)

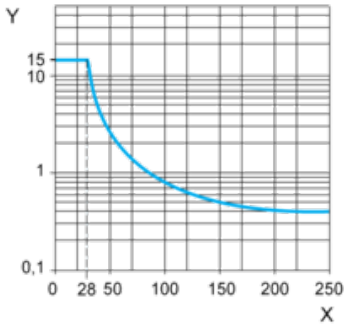
Y Durability (Number of operating cycles)

Reduction coefficient for inductive AC load (depending on power factor cos ϕ)




Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load




X Voltage DC

Y Current DC

Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.