

Product data sheet

Specifications



Power plug in relay, Harmony, 15A, 4CO, lockable test button, 12V DC

RPM41JD

Discontinued on: 05 July 2023

Discontinued

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 |
| [Uc] control circuit voltage | 12 V DC |
| [Ithe] conventional enclosed thermal current | 15 A at -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 conforming to IEC 300 V conforming to CSA 300 V conforming to UL |
| [Uimp] rated impulse withstand voltage | 4 kV during 1.2/50 µs |
| Contacts material | AgNi |
| [Ie] rated operational current | 15 A at 277 V (AC) conforming to UL 15 A at 28 V (DC) conforming to UL 15 A at 250 V (AC) NO conforming to IEC 15 A at 28 V (DC) NO conforming to IEC 7.5 A at 250 V (AC) NC conforming to IEC 7.5 A at 28 V (DC) NC conforming to IEC |
| Maximum switching voltage | 250 V conforming to IEC |
| Resistive load current | 15 A at 250 V AC 15 A at 28 V DC |
| Maximum switching capacity | 3750 VA 420 W |
| Minimum switching capacity | 170 mW at 10 mA, 17 V |
| Operating rate | <= 1200 cycles/hour under load <= 18000 cycles/hour no-load |
| Mechanical durability | 10000000 cycles |

| | |
|----------------------------------|----------------------------------|
| Electrical durability | 100000 cycles for resistive load |
| Average coil consumption | 1.6 W |
| Drop-out voltage threshold | >= 0.1 U _c DC |
| Operate time | 20 ms at nominal voltage |
| Release time | 20 ms at nominal voltage |
| Average coil resistance | 75.8 Ohm at 20 °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 |
| Pollution degree | 3 |
| Safety reliability data | B10d = 100000 |
| Net weight | 0.071 kg |
| Device presentation | Complete product |

Environment

| | |
|---------------------------------------|---|
| Dielectric strength | 1500 V AC between contacts with micro disconnection 2000 V AC between coil and contact with reinforced 2000 V AC between poles with basic |
| Standards | EN/IEC 61810-1 CSA C22.2 No 14 UL 508 |
| Product certifications | EAC CSA UL |
| 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...150 Hz)5 cycles in operation 5 gn, amplitude = +/- 1 mm (f = 10...150 Hz)5 cycles not operating |
| Degree of protection (Housing only) | IP40 conforming to EN/IEC 60529 |
| Shock resistance | 15 gn for in operation 30 gn for not operating |

Packing Units

| | |
|------------------------------|--------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.7 cm |
| Package 1 Width | 4.0 cm |
| Package 1 Length | 2.8 cm |
| Package 1 Weight | 76.0 g |

Offer Sustainability

| | |
|--------------------------|---|
| 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 |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| 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 |

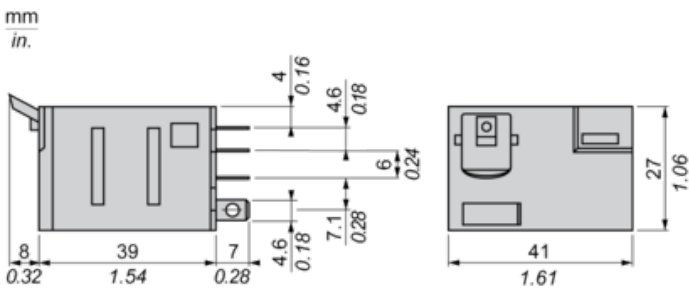
Contractual warranty

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

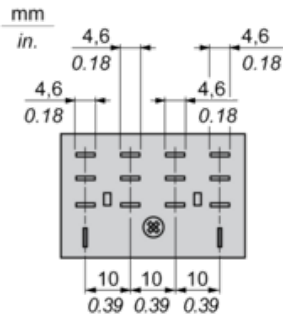
Dimensions Drawings

RPM41JD

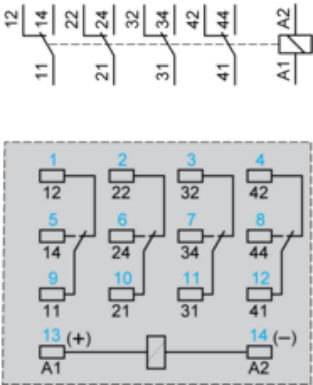
Dimensions



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.

Recommended replacement(s)