

Product data sheet

Specifications



power plug-in relay - Harmony RPM - 3 C/O - 48 V AC - 15 A - with LED

RPM33E7

⚠ Discontinued on: Jan 29, 2021

⚠ Discontinued

Main

| | |
|--|---------------------------------|
| Range Of Product | Harmony Relay |
| Series Name | Power |
| Product Or Component Type | Plug-in relay |
| Device Short Name | RPM |
| Contacts Type And Composition | 3 C/O |
| [Uc] Control Circuit Voltage | 48 V AC |
| [Ithe] Conventional Enclosed Thermal Current | 15 A -40...131 °F (-40...55 °C) |
| Status Led | With |
| Control Type | Without lockable test button |
| Utilisation Coefficient | 20 % |

Complementary

| | |
|--|---|
| Shape Of Pin | Flat |
| [Ui] Rated Insulation Voltage | 250 V IEC 300 V CSA 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 15 A 28 V DC) UL 15 A 250 V AC) NO IEC 15 A 28 V DC) NO IEC 7.5 A 250 V AC) NC IEC 7.5 A 28 V DC) NC IEC |
| Maximum Switching Voltage | 250 V IEC |
| Resistive Load Current | 15 A 250 V AC 15 A 28 V DC |
| Maximum Switching Capacity | 3750 VA 420 W |
| Minimum Switching Capacity | 170 mW 10 mA, 17 V |
| Operating Rate | <= 1200 cycles/hour under load <= 18000 cycles/hour no-load |
| Mechanical Durability | 10000000 cycles |
| Electrical Durability | 100000 cycles resistive |
| Average Coil Consumption In Va | 1.7 60 Hz |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|----------------------------------|-----------------------------------|
| 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 | 460 Ohm at 68 °F (20 °C) +/- 15 % |
| Rated Operational Voltage Limits | 38.4...52.8 V AC |
| Protection Category | RT I |
| Operating Position | Any position |
| Pollution Degree | 3 |
| Safety Reliability Data | B10d = 100000 |
| Net Weight | 0.12 lb(US) (0.054 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 UL 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 5 gn +/- 1 mm 10...150 Hz)5 cycles not operating |
| Degree Of Protection (Housing Only) | IP40 conforming to EN/IEC 60529 |
| Shock Resistance | 15 gnin operation 30 gnnot operating |

Ordering and shipping details

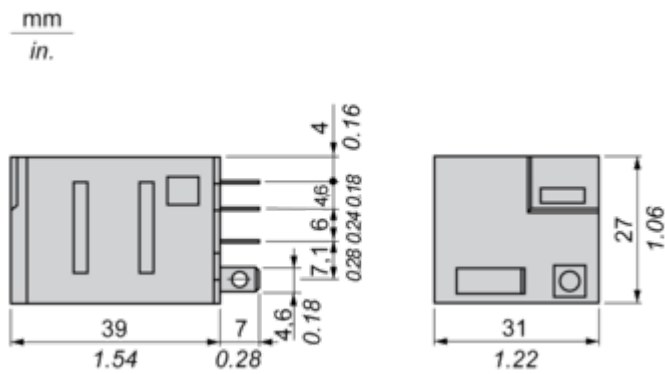
| | |
|-------------------|-----------------------------|
| Category | 21127-ZELIO ICE CUBE RELAYS |
| Discount Schedule | CP2 |
| Gtin | 00785901083788 |
| Returnability | No |
| Country Of Origin | CN |

Contractual warranty

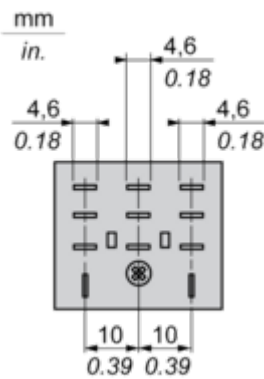
| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions Drawings

Dimensions

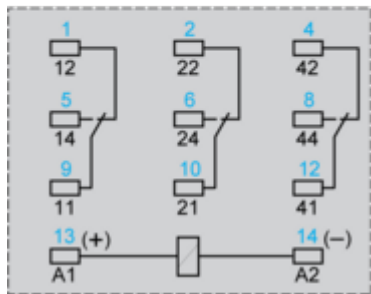
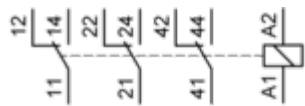


Pin Side View



Connections and Schema

Wiring Diagram

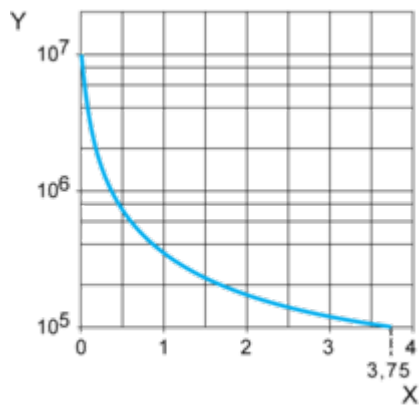


Symbols shown in blue correspond to Nema marking.

Performance Curves

Electrical Durability of Contacts

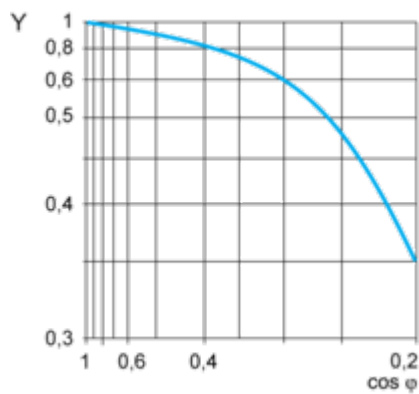
Durability (inductive load) = durability (resistive load) x reduction coefficient.
Resistive AC load



X Switching capacity (kVA)

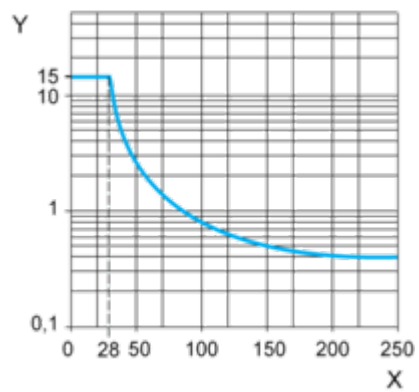
Y Durability (Number of operating cycles)

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.