

Product data sheet

Specifications



universal plug in relay, Harmony Electromechanical Relays, 10A, 3CO, with LED, 125V DC

RUMC33GD

⚠ Discontinued on: Oct 9, 2023

⚠ Discontinued

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

| | |
|--|---|
| Range of Product | Harmony Electromechanical Relays |
| Series name | Universal |
| Product or Component Type | Plug-in relay |
| Device short name | RUM |
| Contacts type and composition | 3 C/O |
| [Uc] control circuit voltage | 125 V DC |
| [Ithe] conventional enclosed thermal current | 10 A -40.0000000000...131.0000000000 °F (-40...55 °C) |
| Status LED | With |
| Control Type | Without lockable test button |
| Utilisation coefficient | 20 % |

Complementary

| | |
|--|--|
| Shape of pin | Cylindrical |
| [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 | 10 A at 277 V AC conforming to UL 10 A at 30 V DC conforming to UL 10 A at 277 V AC (same polarity) conforming to CSA 10 A at 30 V DC conforming to CSA 5 A at 250 V AC (NC) conforming to IEC 5 A at 28 V DC (NC) conforming to IEC 10 A at 250 V AC (NO) conforming to IEC 10 A at 28 V DC (NO) conforming to IEC |
| Maximum switching voltage | 250 V IEC |
| Resistive rated load | 10 A 250 V AC 10 A 28 V DC |
| Maximum switching capacity | 2500 VA/280 W |
| Minimum switching capacity | 170 mW 10 mA, 17 V |
| Operating rate | <= 18000 cycles/hour no-load <= 1200 cycles/hour under load |
| Mechanical durability | 5000000 cycles |
| Electrical durability | 100000 cycles resistive |

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

| | |
|----------------------------------|--------------------------|
| Average coil consumption in W | 1.4 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 | 9766 Ohm 20 °C +/- 10 % |
| Rated operational voltage limits | 100...137.5 V DC |
| Protection category | RT I |
| Test levels | Level A group mounting |
| Safety reliability data | B10d = 100000 |
| Operating position | Any position |
| Net Weight | 0.190 lb(US) (0.086 kg) |
| device presentation | Complete product |

Environment

| | |
|---------------------------------------|---|
| Dielectric strength | 1500 V AC between contacts with micro disconnection 2500 V AC between coil and contact with reinforced 2000 V AC between poles with basic |
| Product Certifications | CSA UL EAC |
| Standards | UL 508 CSA C22.2 No 14 IEC 61810-1 |
| Ambient Air Temperature for Storage | -40.0000000000...185.0000000000 °F (-40...85 °C) |
| Ambient air temperature for operation | -40.0000000000...131.0000000000 °F (-40...55 °C) |
| Vibration resistance | 3 gn +/- 1 mm 10...150 Hz)5 cycles in operation 4 gn +/- 1 mm 10...150 Hz)5 cycles not operating |
| IP degree of protection | IP40 |
| Shock resistance | 10 gn 11 ms) in operation IEC 60068-2-27 10 gn 11 ms) not operating IEC 60068-2-27 |
| Pollution degree | 2 |

Ordering and shipping details

| | |
|-------------------|---------------|
| Category | US10CP221127 |
| Discount Schedule | 0CP2 |
| GTIN | 3606480627088 |
| Returnability | No |
| Country of origin | CN |

Packing Units

| | |
|------------------------------|-------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.7 in (6.9 cm) |
| Package 1 Width | 1.40 in (3.55 cm) |
| Package 1 Length | 1.4 in (3.5 cm) |

| | |
|-------------------------------------|--------------------------|
| Package 1 Weight | 3.1 oz (89.0 g) |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 1.5 in (3.9 cm) |
| Package 2 Width | 5.7 in (14.5 cm) |
| Package 2 Length | 7.9 in (20.0 cm) |
| Package 2 Weight | 34.1 oz (968.0 g) |
| Unit Type of Package 3 | S02 |
| Number of Units in Package 3 | 60 |
| Package 3 Height | 5.9 in (15.0 cm) |
| Package 3 Width | 11.8 in (30.0 cm) |
| Package 3 Length | 15.7 in (40.0 cm) |
| Package 3 Weight | 14.079 lb(US) (6.386 kg) |

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.


[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

 Reach Free Of Svhc

 Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Pro-active compliance (Product out of EU RoHS legal scope)

[EU RoHS Declaration](#)

China Rohs Regulation

[China RoHS declaration](#)

Environmental Disclosure

[Product Environmental Profile](#)

Circularity Profile

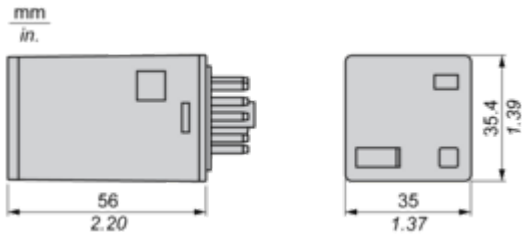
No need of specific recycling operations

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

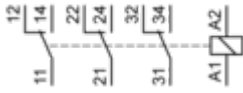
Dimensions Drawings

Dimensions

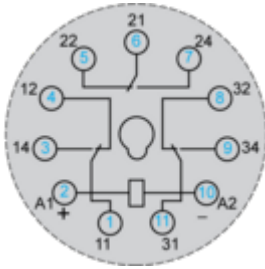


Connections and Schema

Wiring Diagram



Wiring Diagram



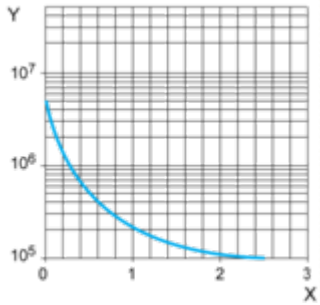
Symbols shown in blue correspond to Nema marking.

Performance Curves

Electrical Durability of Contacts

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

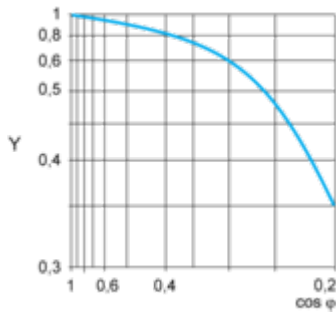
Resistive AC load



X Switching capacity (kVA)

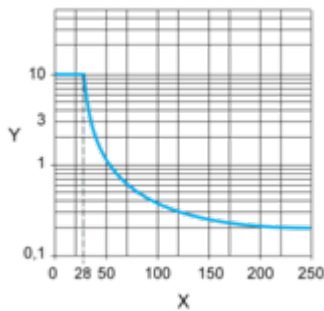
Y Durability (Number of operating cycles)

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.