

RUMC32B7

universal plug in relay, Harmony
Electromechanical Relays, 10A, 3CO, with
LED, lockable test but to n, 24V AC



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 | 24 V AC 50/60 Hz |
| [Ithe] conventional enclosed thermal current | 10 A -40...131 °F (-40...55 °C) |
| Status LED | With |
| Control Type | 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 |
| Average coil consumption in VA | 3 60 Hz |
| Drop-out voltage threshold | >= 0.15 U _c AC |
| Operate time | 20 ms at nominal voltage |
| Release time | 20 ms at nominal voltage |
| Average coil resistance | 72 Ohm 20 °C +/- 15 % |
| Rated operational voltage limits | 19.2...26.4 V AC |
| Protection category | RT I |
| Test levels | Level A group mounting |
| Safety reliability data | B10d = 100000 |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| | |
|---------------------|-------------------------|
| 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 | EAC[RETURN]CSA[RETURN]UL |
| Standards | IEC 61810-1 CSA C22.2 No 14 UL 508 |
| 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 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 | OCP2 |
| GTIN | 3606480626920 |
| Returnability | Yes |
| Country of origin | CN |

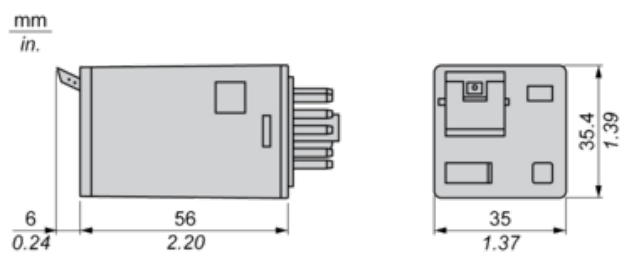
Packing Units

| | |
|------------------------------|--------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.5 in (3.7 cm) |
| Package 1 Width | 1.5 in (3.8 cm) |
| Package 1 Length | 2.8 in (7.2 cm) |
| Package 1 Weight | 3.4 oz (95.0 g) |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 1.6 in (4.0 cm) |
| Package 2 Width | 5.7 in (14.6 cm) |
| Package 2 Length | 7.8 in (19.8 cm) |
| Package 2 Weight | 34.2 oz (970.0 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 | 13.816 lb(US) (6.267 kg) |

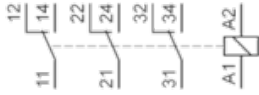
Offer Sustainability

| | |
|----------------------------|--|
| 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 |

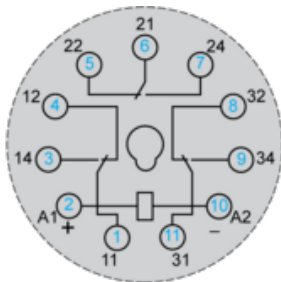
Dimensions



Wiring Diagram



Wiring Diagram

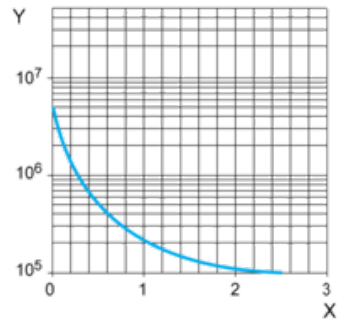


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

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

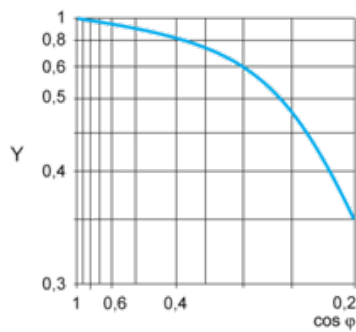
Resistive AC load



X Switching capacity (kVA)

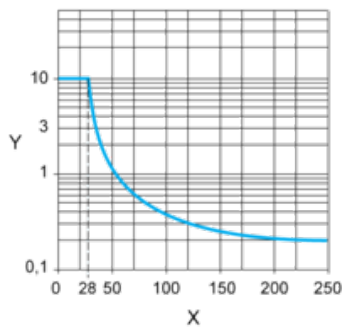
Y Durability (Number of operating cycles)

Reduction coefficient for inductive AC load (depending on power factor $\cos \phi$)



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.