Specifications





universal plug in relay, Harmony Electromechanical Relays, 10A, 3CO, with LED, lockable test but to n, flat terminals, 120V AC

RUMF32F7

Product availability: Stock - Normally stocked in distribution facility

#### Price\*: 15.25 USD

#### 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                    | 120 V AC 50/60 Hz                |
| [Ithe] Conventional Enclosed<br>Thermal Current | 10 A -40131 °F (-4055 °C)        |
| Status Led                                      | With                             |
| Control Type                                    | 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<br>Voltage | 4 kV 1.2/50 μs)                                    |
| Contacts Material                         | AgNi   |
| [le] 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                                     |
|   |  |

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

| Electrical Durability            | 100000 cycles resistive  |  |
|----------------------------------|--------------------------|--|
| Average Coil Consumption In Va   | 3 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          | 1700 Ohm 20 °C +/- 15 %  |  |
| Rated Operational Voltage Limits | 96132 V AC               |  |
| Protection Category              | RTI                      |  |
| Test Levels                      | Level A group mounting   |  |
| Safety Reliability Data          | B10d = 100000            |  |
| Operating Position               | Any position             |  |
| Net Weight                       | 0.19 lb(US) (0.086 kg)   |  |
| Device Presentation              | Complete product         |  |

### Environment

| Dielectric Strength                      | 1500 V AC between contacts with micro disconnection<br>2500 V AC between coil and contact with reinforced |
|--|---|
|  | 2000 V AC between poles with basic  |
| Product Certifications                   | CSA   |
|  | UL  |
|  | EAC   |
| Standards                                | CSA C22.2 No 14   |
|  | UL 508  |
|  | IEC 61810-1   |
| Ambient Air Temperature For<br>Storage   | -40185 °F (-4085 °C)  |
| Ambient Air Temperature For<br>Operation | -40131 °F (-4055 °C)  |
| Vibration Resistance                     | 3 gn +/- 1 mm 10150 Hz)5 cycles in operation  |
|  | 4 gn +/- 1 mm 10150 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                         | 3   |

# Ordering and shipping details

| Category          | US10CP221127  |
|-------------------|---------------|
| Discount Schedule | 0CP2          |
| Gtin              | 3606480627484 |
| Returnability     | Yes           |
| Country Of Origin | CN            |

# **Packing Units**

| Unit Type Of Package 1       | PCE              |
|------------------------------|------------------|
| Number Of Units In Package 1 | 1                |
| Package 1 Height             | 1.42 in (3.6 cm) |
| Package 1 Width              | 1.38 in (3.5 cm) |

Package 1 Length

2.72 in (6.9 cm)

Package 1 Weight

3.00 oz (85.0 g)

# Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> 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

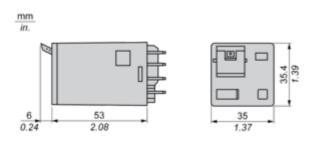
Rohs Exemption Information Yes

### **Certifications & Standards**

| Reach Regulation          | REACh Declaration   |
|---------------------------|---|
| Eu Rohs Directive         | Pro-active compliance (Product out of EU RoHS legal scope)<br>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,<br>which is known to the State of California to cause cancer, and Di-isodecyl phthalate<br>(DIDP), which is known to the State of California to cause birth defects or other<br>reproductive harm. For more information go to www.P65Warnings.ca.gov |

#### **Dimensions Drawings**

#### Dimensions

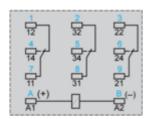


Connections and Schema

#### Wiring Diagram



#### Wiring Diagram

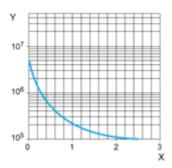


Symbols shown in blue correspond to Nema marking.

#### Performance Curves

#### **Electrical Durability of Contacts**

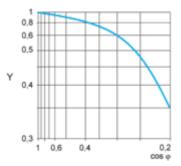
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

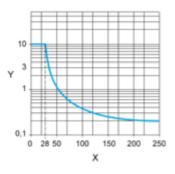
**Y** Durability (Number of operating cycles)

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



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load





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

8