

universal plug in relay, Harmony Electromechanical Relays, 10A, 3CO, lockable test but to n, 230V DC

RUMC31P7

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

#### Main

Range of Product	Harmony Electromechanical Relays	
Series name	RUM series	
Product or Component Type	Plug-in relay	
Relay Type	Universal relay	
Contacts type and composition	3 C/O	
Status LED	Without	
Control Type	Lockable test button	
[Uc] control circuit voltage	230 V AC 50/60 Hz	
[Ithe] conventional enclosed thermal current	10 A -40131 °F (-4055 °C)	

## Complementary

4 kV 1.2/50 μs)	
170 mW 10 mA, 17 V	
100000 cycles resistive	
3 60 Hz	
20 ms at nominal voltage	
184253 V AC	
250 V IEC	
300 V CSA	
300 V UL	
20 ms at nominal voltage	
250 V IEC	
>= 0.15 Uc AC	
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	
10 A 250 V AC	
10 A 28 V DC	
6800 Ohm 20 °C +/- 15 %	
2500 VA/280 W	

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

Mechanical durability	5000000 cycles	
Safety reliability data	B10d = 100000	
Operating rate	<= 18000 cycles/hour no-load <= 1200 cycles/hour under load	
Utilisation coefficient	20 %	
Compatibility code	RUM	
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	
Protection category	RTI	
pollution degree	2	
Operating position	Any position	
Test levels	Level A group mounting	
Device presentation	Complete product	
Contacts material	AgNi	
Shape of pin	Cylindrical	
Net Weight	0.190 lb(US) (0.086 kg)	

# **Environment**

Ambient air temperature for operation	-40131 °F (-4055 °C)	
IP degree of protection	IP40	
Standards	CSA C22.2 No 14 IEC 61810-1 UL 508	
Product Certifications	EAC CSA UL	
Ambient Air Temperature for Storage	-40185 °F (-4085 °C)	
Vibration resistance	3 gn +/- 1 mm 10150 Hz)5 cycles in operation 4 gn +/- 1 mm 10150 Hz)5 cycles not operating	
Shock resistance	10 gn 11 ms) in operation IEC 60068-2-27 10 gn 11 ms) not operating IEC 60068-2-27	

# Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
GTIN	3606480626913
Returnability	Yes
Country of origin	FR

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.42 in (3.600 cm)
Package 1 Width	1.38 in (3.500 cm)
Package 1 Length	2.72 in (6.900 cm)

Package 1 Weight	3.245 oz (92.000 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	1.57 in (4.000 cm)
Package 2 Width	5.71 in (14.500 cm)
Package 2 Length	7.87 in (20.000 cm)
Package 2 Weight	34.744 oz (985.000 g)
Unit Type of Package 3	S02
Number of Units in Package 3	60
Package 3 Height	5.91 in (15.000 cm)
Package 3 Width	11.81 in (30.000 cm)
Package 3 Length	15.75 in (40.000 cm)
Package 3 Weight	13.603 lb(US) (6.170 kg)



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

#### Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint		
Carbon footprint (kg CO2 eq, Total Life cycle)	7	

#### Use Better

<b>⊗</b> Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
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

#### **Use Again**

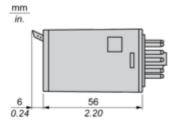
○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No

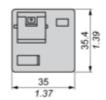
# **Product data sheet**

### RUMC31P7

### **Dimensions Drawings**

### **Dimensions**





Jul 5, 2025

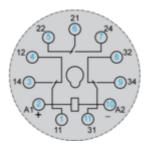
## **Product data sheet**

### RUMC31P7

Connections and Schema

Wiring Diagram

### Wiring Diagram



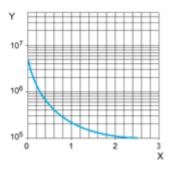
Symbols shown in blue correspond to Nema marking.

### RUMC31P7

#### Performance Curves

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

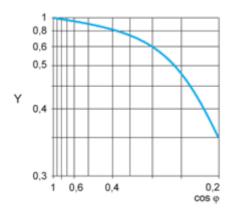
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

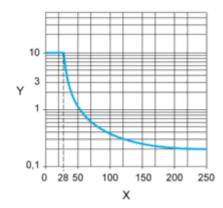
Y Durability (Number of operating cycles)

Reduction coefficient for inductive AC load (depending on power factor cos φ)



#### Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



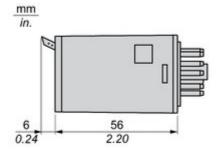
X Voltage DC

Y Current DC

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

**Technical Illustration** 

### **Dimensions**



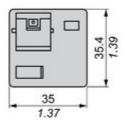


Image of product in real life situation

