

universal plug in relay, Harmony Electromechanical Relays, 10A, 2CO, lockable test but to n, 120V AC

RUMC21F7

Product availability: Stock - 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	2 C/O	
Status LED	Without	
Control Type	Lockable test button	
[Uc] control circuit voltage	120 V AC 50/60 Hz	
[Ithe] conventional enclosed thermal current	10 A -40131 °F (-4055 °C)	

### Complementary

Complementary		
[Uimp] rated impulse withstand voltage	4 kV 1.2/50 μs)	
Minimum switching capacity	170 mW 10 mA, 17 V	
Electrical durability	100000 cycles resistive	
Average coil consumption in VA	3 60 Hz	
Operating time	20 ms at nominal voltage	
Rated operational voltage limits	96132 V AC	
[Ui] rated insulation voltage	250 V IEC 300 V CSA 300 V UL	
Reset time	20 ms at nominal voltage	
Maximum switching voltage	250 V IEC	
Drop-out voltage threshold	>= 0.15 Uc AC	
[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 30 V DC conforming to CSA  5 A at 250 V AC (NC) conforming to IEC  5 A at 28 V DC (NO) conforming to IEC  10 A at 250 V AC (NO) conforming to IEC  10 A at 277 V AC conforming to IEC		
Average resistance	1700 Ohm 20 °C +/- 15 %	
Maximum switching capacity	2500 VA/280 W	
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.

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	3	
Operating position	Any position	
Test levels	Level A group mounting	
Device presentation	Complete product	
Contacts material	AgNi	
Shape of pin	Cylindrical	
Product Weight	0.190 lb(US) (0.086 kg)	

# **Environment**

Ambient air temperature for operation	-40131 °F (-4055 °C)	
IP degree of protection	IP40	
Standards	IEC 61810-1 UL 508 CSA C22.2 No 14	
Product Certifications	UL EAC CSA	
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	3606480626616
Returnability	Yes
Country of origin	CN

# **Packing Units**

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.38 in (3.500 cm)
Package 1 Width	2.72 in (6.900 cm)
Package 1 Length	1.42 in (3.600 cm)
Package weight(Lbs)	3.069 oz (87.000 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	5.75 in (14.600 cm)	
Package 2 Length	7.87 in (20.000 cm)	
Package 2 Weight	32.875 oz (932.000 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	12.901 lb(US) (5.852 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 >

<b>⊘</b> Environmental footprint		
Carbon footprint (kg CO2 eq, Total Life cycle)	30	

#### Use Better

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)	
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**

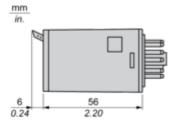
○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No

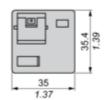
# Product data sheet

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# **Dimensions Drawings**

## **Dimensions**

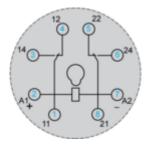




Connections and Schema

## Wiring Diagram

### Wiring Diagram



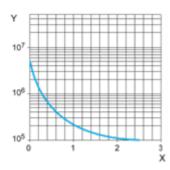
Symbols shown in blue correspond to Nema marking.

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#### Performance Curves

### **Electrical Durability of Contacts**

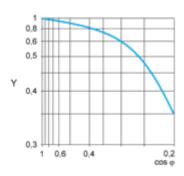
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

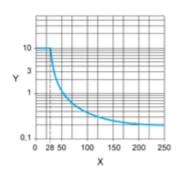
Y Durability (Number of operating cycles)

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



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



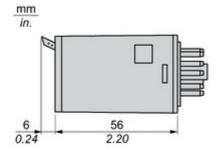
X Voltage DC
Y Current DC

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

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**Technical Illustration** 

## **Dimensions**



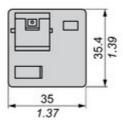


Image of product / Alternate images

### **Alternative**







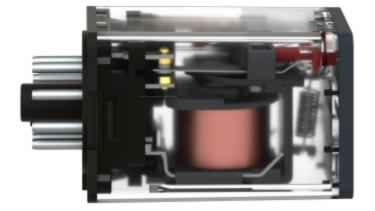






Image of product in real life situation

