

universal plug in relay, Harmony Electromechanical Relays, 10A, 3CO, lockable test but to n, 12V AC

RUMC31JD

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	12 V DC	
[Ithe] Conventional Enclosed Thermal Current	10 A at -4055 °C	
Status Led	Without	
Control Type	Lockable test button	
Utilisation Coefficient	20 %	

Complementary

Shape Of Pin	Cylindrical
[Ui] Rated Insulation Voltage	250 V conforming to IEC
	300 V conforming to CSA
	300 V conforming to UL
[Uimp] Rated Impulse Withstand 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 conforming to IEC
Resistive Rated Load	10 A at 250 V AC
	10 A at 28 V DC
Maximum Switching Capacity	2500 VA/280 W
Minimum Switching Capacity	170 mW at 10 mA, 17 V
Operating Rate	<= 18000 cycles/hour no-load
	<= 1200 cycles/hour under load
Mechanical Durability	5000000 cycles
Electrical Durability	100000 cycles for resistive load
Average Coil Consumption In W	1.4 W

>= 0.1 Uc DC	
20 ms at nominal voltage	
20 ms at nominal voltage	
120 Ohm at 20 °C +/- 15 %	
9.613.2 V DC	
RTI	
Level A group mounting	
B10d = 100000	
Any position	
0.086 kg	
Complete product	

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	UL EAC CSA	
Standards	UL 508 CSA C22.2 No 14 IEC 61810-1	
Ambient Air Temperature For Storage	-4085 °C	
Ambient Air Temperature For Operation	-4055 °C	
Vibration Resistance	3 gn, amplitude = +/- 1 mm (f = 10150 Hz)5 cycles in operation 4 gn, amplitude = +/- 1 mm (f = 10150 Hz)5 cycles not operating	
Ip Degree Of Protection	IP40	
Shock Resistance	10 gn (duration = 11 ms) for in operation conforming to IEC 60068-2-27 10 gn (duration = 11 ms) for not operating conforming to IEC 60068-2-27	
Pollution Degree	2	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.6 cm
Package 1 Width	3.5 cm
Package 1 Length	6.9 cm
Package 1 Weight	90 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	10
Package 2 Height	4 cm
Package 2 Width	14.6 cm
Package 2 Length	19.8 cm
Package 2 Weight	973 g
Unit Type Of Package 3	S02

Number Of Units In Package 3	60
Package 3 Height	15 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	6.476 kg

Sustainability

Green PremiumTM 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-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

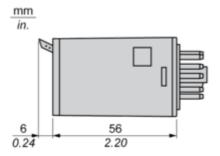
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations
California 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

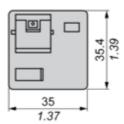
Product data sheet

RUMC31JD

Dimensions Drawings

Dimensions



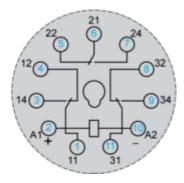


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Connections and Schema

Wiring Diagram

Wiring Diagram



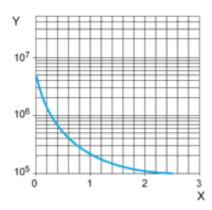
Symbols shown in blue correspond to Nema marking.

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Performance Curves

Electrical Durability of Contacts

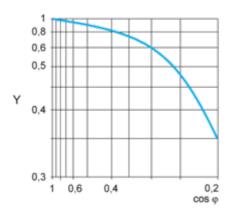
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

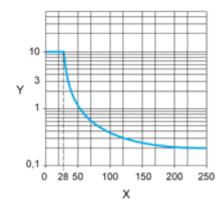
Y Durability (Number of operating cycles)

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



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.