

Product data sheet

Specifications



Harmony, Universal plug-in relay, 10 A, 2 CO, with lockable test button, flat (faston) terminals, 48 V AC

RUMF21E7

⚠ Discontinued on: Jun 30, 2023

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

Main

Range of Product	Harmony Electromechanical Relays
Series name	Universal
Product or Component Type	Plug-in relay
Device short name	RUM
[Uc] control circuit voltage	48 V AC 50/60 Hz
Contacts type and composition	2 C/O
Status LED	Without
Control Type	Lockable test button
[Ithe] conventional enclosed thermal current	10 A -40...131 °F (-40...55 °C)

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	38.4...52.8 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
[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 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 at 277 V AC conforming to CSA
Average resistance	290 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.

Disclaimer: 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

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	RT I
Pollution degree	3
Operating position	Any position
Test levels	Level A group mounting
Device presentation	Complete product
Contacts material	AgNi
Shape of pin	Flat
Net Weight	0.190 lb(US) (0.086 kg)

Environment

Ambient air temperature for operation	-40...131 °F (-40...55 °C)
IP degree of protection	IP40
Standards	EN/IEC 61810-1 UL 508 CSA C22.2 No 14
Product Certifications	CSA UL EAC
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °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
Shock resistance	10 gn 11 ms) in operation EN/IEC 60068-2-27 10 gn 11 ms) not operating EN/IEC 60068-2-27

Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
GTIN	3606480627149
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.38 in (6.05 cm)
Package 1 Width	1.40 in (3.55 cm)
Package 1 Length	1.4 in (3.5 cm)
Package weight(Lbs)	2.9 oz (81.0 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	5.2 in (13.2 cm)
Package 2 Length	7.8 in (19.8 cm)
Package 2 Weight	31.7 oz (900.0 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	13.296 lb(US) (6.031 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

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 >](#)

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 Longer

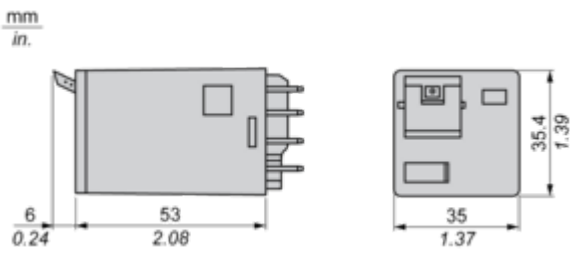
Lifetime extension	
Repair	No

Use Again

Repack and remanufacture	
Circularity Profile	No need of specific recycling operations

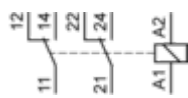
Dimensions Drawings

Dimensions

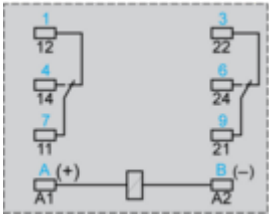


Connections and Schema

Wiring Diagram



Wiring Diagram

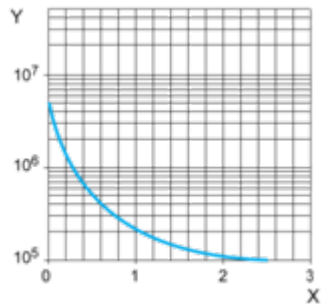


Symbols shown in blue correspond to Nema marking.

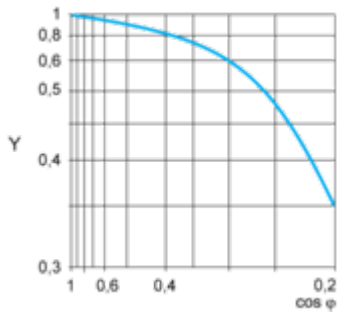
Performance Curves

Electrical Durability of Contacts

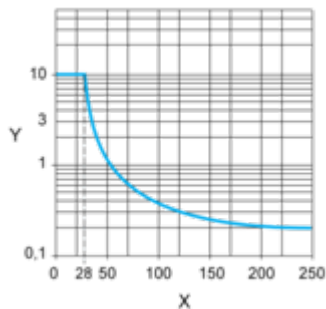
Durability (inductive load) = durability (resistive load) x reduction coefficient.
Resistive AC load



X Switching capacity (kVA)
Y Durability (Number of operating cycles)
Reduction coefficient for inductive AC load (depending on power factor cos 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.

Image of product in real life situation

