Product datasheet





universal plug-in relay - Harmony RUM - 2 C/O - 48 V AC - 10 A with LED

RUMF22E7

! Discontinued on: 1 Nov 2020

(!) Discontinued

Main

Range of product	Harmony Relay	
Series name	Universal	
Product or component type	Plug-in relay	
Device short name	RUM	
Contacts type and composition	2 C/O	
[Uc] control circuit voltage	48 V AC 50/60 Hz	
[Ithe] conventional enclosed thermal current	10 A at -4055 °C	
Status LED	With	
Control type	Lockable test button	
Utilisation coefficient	20 %	

Complementary

Flat		
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 30 V DC conforming to IEC 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 250 V AC (NO) conforming to IEC 10 A at 277 V AC conforming to IEC 10 A at 277 V AC conforming to IEC 10 A at 277 V AC conforming to IEC 10 A at 277 V AC conforming to IEC 10 A at 277 V AC conforming to IEC 10 A at 277 V AC conforming to IEC 10 A at 277 V AC conforming to IEC 10 A at 277 V AC 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	Shape of pin	Flat
Substitute Su	[Ui] rated insulation voltage	250 V conforming to IEC
[Uimp] rated impulse withstand voltage 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 30 V DC conforming to IEC 5 A at 250 V AC (NC) conforming to IEC 5 A at 250 V AC (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 IEC 10 A at 277 V AC conforming to IEC 10 A at 277 V AC conforming to IEC 10 A at 277 V AC conforming to IEC 10 A at 277 V AC conforming to IEC 10 A at 277 V AC conforming to IEC 10 A at 277 V AC 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		300 V conforming to CSA
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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		10 A at 277 V AC conforming to CSA
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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	Resistive rated load	10 A at 250 V AC
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		10 A at 28 V DC
Operating rate <= 18000 cycles/hour no-load <= 1200 cycles/hour under load Mechanical durability 5000000 cycles	Maximum switching capacity	2500 VA/280 W
<= 1200 cycles/hour under load Mechanical durability 5000000 cycles	Minimum switching capacity	170 mW at 10 mA, 17 V
Mechanical durability 5000000 cycles	Operating rate	<= 18000 cycles/hour no-load
		<= 1200 cycles/hour under load
Electrical durability 100000 cycles for resistive load	Mechanical durability	5000000 cycles
	Electrical durability	100000 cycles for resistive load

Life Is On Schneider 17 Jul 2024



Average coil consumption in VA	3 at 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	290 Ohm at 20 °C +/- 15 %	
Rated operational voltage limits	38.452.8 V AC	
Protection category	RTI	
Test levels	Level A group mounting	
Safety reliability data	B10d = 100000	
Operating position	Any position	
Net weight	0.086 kg	
device presentation	Complete product	

Environment

Dielectric strength	1500 V AC between contacts with micro disconnection	
Dictional of origin	2500 V AC between coil and contact with reinforced	
	2000 V AC between poles with basic	
	2000 V AC between poles with basic	
Product certifications	UL	
	CSA	
	EAC	
Standards	EN/IEC 61810-1	
	UL 508	
	CSA C22.2 No 14	
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 EN/IEC 60068-2-27	
	10 gn (duration = 11 ms) for not operating conforming to EN/IEC 60068-2-27	
Pollution degree	3	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.05 cm
Package 1 Width	3.55 cm
Package 1 Length	3.5 cm
Package 1 Weight	81 g



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.

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Transparency RoHS/REACh

Well-being performance



Reach Free Of Svhc



Rohs Exemption Information

Yes

Certifications & Standards

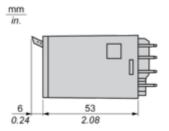
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations

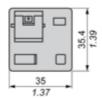
Product datasheet

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Dimensions Drawings

Dimensions





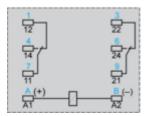
Product datasheet

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Connections and Schema

Wiring Diagram

Wiring Diagram



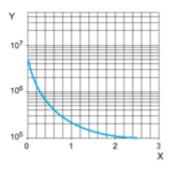
Symbols shown in blue correspond to Nema marking.

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Performance Curves

Electrical Durability of Contacts

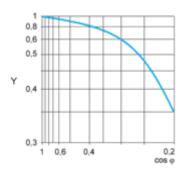
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

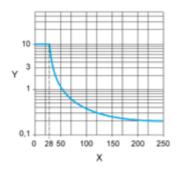
Y Durability (Number of operating cycles)

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



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.