# **Product datasheet**





# universal plug-in relay - Harmony RUM - 2 C/O - 230 V AC - 10 A with LED

RUMF23P7

! 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	230 V AC 50/60 Hz
[Ithe] Conventional Enclosed Thermal Current	10 A at -4055 °C
Status Led	With
Control Type	Without lockable test button
Utilisation Coefficient	20 %

# Complementary

Shape Of Pin	Flat
[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 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
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 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	6800 Ohm at 20 °C +/- 15 %	
Rated Operational Voltage Limits	184253 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 2500 V AC between coil and contact with reinforced 2000 V AC between poles with basic	
Product Certifications	EAC	

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Product Certifications	EAC CSA UL
Standards	CSA C22.2 No 14 UL 508 EN/IEC 61810-1
Ambient Air Temperature For Storage	-4085 °C
Ambient Air Temperature For Operation	-4055 °C
Vibration Resistance	3 gn, amplitude = $\pm$ 1 mm (f = 10150 Hz)5 cycles in operation 4 gn, amplitude = $\pm$ 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



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Transparency RoHS/REACh

# Well-being performance



Reach Free Of Svhc



Rohs Exemption Information

Yes

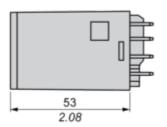
### **Certifications & Standards**

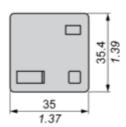
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations

# **Dimensions Drawings**

### **Dimensions**







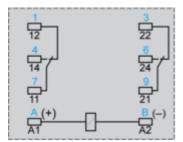
# **Product datasheet**

## RUMF23P7

Connections and Schema

### Wiring Diagram

### Wiring Diagram



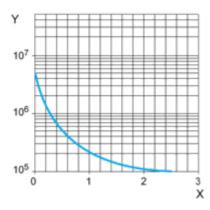
Symbols shown in blue correspond to Nema marking.

#### RUMF23P7

#### Performance Curves

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

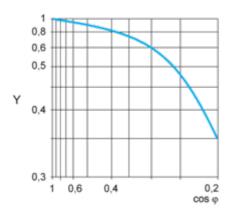
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

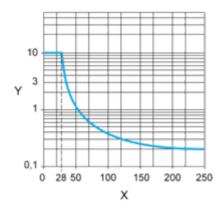
Y Durability (Number of operating cycles)

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.