Product data sheet

Specifications

universal plug in relay, Harmony Electromechanical Relays, 10A, 3CO, with LED, flat terminals, 120V AC

RUMF33F7

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	120 V AC 50/60 Hz
[Ithe] Conventional Enclosed Thermal Current	10 A -40…131 °F (-40…55 °C)
Status Led	With
Control Type	Without lockable test button
Utilisation Coefficient	20 %

Complementary

Shape Of Pin	Flat
[Ui] Rated Insulation Voltage	250 V IEC 300 V CSA 300 V UL
[Uimp] Rated Impulse Withstand Voltage	4 kV 1.2/50 µs)
Contacts Material	AgNi
[Ie] Rated Operational Current	10 A 277 V AC UL 10 A 30 V DC UL 10 A 277 V AC same polarity)CSA 10 A 30 V DC CSA 5 A 250 V AC NC)IEC 5 A 28 V DC NC)IEC 10 A 250 V AC NO)IEC 10 A 28 V DC NO)IEC
Maximum Switching Voltage	250 V IEC
Resistive Rated Load	10 A 250 V AC 10 A 28 V DC
Maximum Switching Capacity	2500 VA/280 W
Minimum Switching Capacity	170 mW 10 mA, 17 V
Operating Rate	<= 18000 cycles/hour no-load <= 1200 cycles/hour under load
Mechanical Durability	5000000 cycles
Electrical Durability	100000 cycles resistive
Average Coil Consumption In Va	3 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	1700 Ohm 20 °C +/- 15 %
Rated Operational Voltage Limits	96...132 V AC
Protection Category	RT I
Test Levels	Level A group mounting
Safety Reliability Data	B10d = 100000
Operating Position	Any position
Net Weight	0.19 lb(US) (0.086 kg)
Device Presentation	Complete product

Environment

Dielectric Strength	1500 V AC between contacts micro disconnection 2500 V AC between coil and contact reinforced 2000 V AC between poles basic
Product Certifications	CSA UL EAC
Standards	UL 508 CSA C22.2 No 14 IEC 61810-1
Ambient Air Temperature For Storage	-40…185 °F (-40…85 °C)
Ambient Air Temperature For Operation	-40…131 °F (-40…55 °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
Ip Degree Of Protection	IP40
Shock Resistance	10 gn 11 ms) in operation IEC 60068-2-27 10 gn 11 ms) not operating 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	2.38 in (6.05 cm)
Package 1 Width	1.40 in (3.55 cm)
Package 1 Length	1.38 in (3.5 cm)
Package 1 Weight	2.97 oz (84.2 g)
Unit Type Of Package 2	BB1
Number Of Units In Package 2	10
Package 2 Height	1.57 in (4.0 cm)
Package 2 Width	5.20 in (13.2 cm)
Package 2 Length	7.80 in (19.8 cm)
Package 2 Weight	32.28 oz (915.0 g)
Unit Type Of Package 3	S02

Number Of Units In Package 3	60
Package 3 Height	5.91 in (15.0 cm)
Package 3 Width	11.81 in (30.0 cm)
Package 3 Length	15.75 in (40.0 cm)
Package 3 Weight	13.31 lb(US) (6.037 kg)

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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

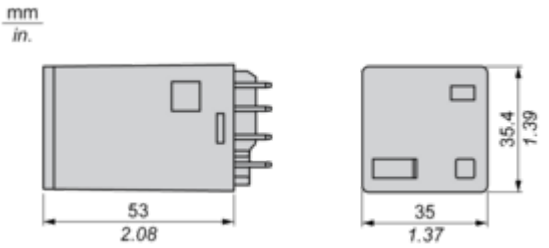
Reach Free Of Svhc	
Rohs Exemption Information	Yes

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

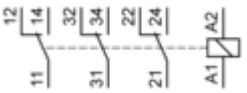
Dimensions Drawings

Dimensions

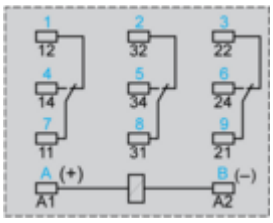


Connections and Schema

Wiring Diagram



Wiring Diagram

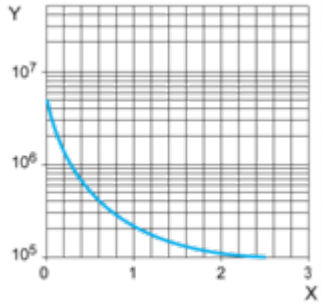


Symbols shown in blue correspond to Nema marking.

Performance Curves

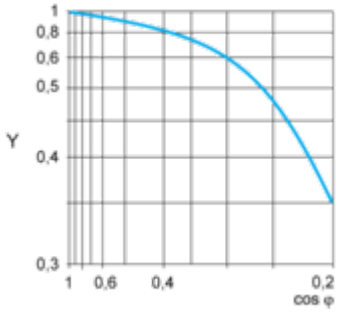
Electrical Durability of Contacts

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



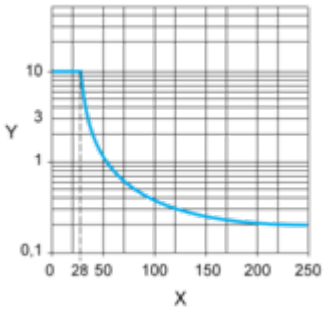
X Switching capacity (kVA)
Y Durability (Number of operating cycles)

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.