Specifications





# Universal plug in relay, Harmony, 10A, 2CO, with LED, lockable test button, flat (faston) terminals, 24V DC

RUMF22BD

① Discontinued

Discontinued on: 1 Nov 2020

# 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	2 C/O
[Uc] Control Circuit Voltage	24 V DC
[Ithe] Conventional Enclosed Thermal Current	10 A at -4055 °C
Status Led	With
Control Type	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 W	1.4 W
Drop-Out Voltage Threshold	>= 0.1 Uc DC
Operate Time	20 ms at nominal voltage
Release Time	20 ms at nominal voltage
Average Coil Resistance	470 Ohm at 20 °C +/- 15 %
Rated Operational Voltage Limits	19.226.4 V DC
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
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Product Certifications	UL
	EAC
	CSA
Standards	UL 508
	CSA C22.2 No 14
	IEC 61810-1
Ambient Air Temperature For	-4085 °C
Storage	
Ambient Air Temperature For	-4055 °C
Operation	
Vibration Resistance	3 gn, amplitude = +/- 1 mm (f = 10…150 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	3

# 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	6.1 cm
Package 1 Weight	81 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	10
Package 2 Height	4 cm
Package 2 Width	13.2 cm
Package 2 Length	19.8 cm
Package 2 Weight	871 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	5.237 kg

# Sustainability Screen Premium

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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

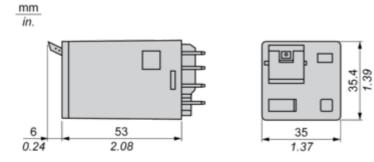
Rohs Exemption Information Yes

## **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

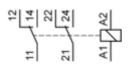
#### **Dimensions Drawings**

#### Dimensions

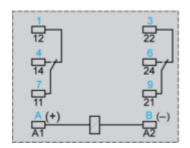


Connections and Schema

#### Wiring Diagram



#### Wiring Diagram

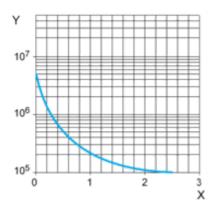


Symbols shown in blue correspond to Nema marking.

#### Performance Curves

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

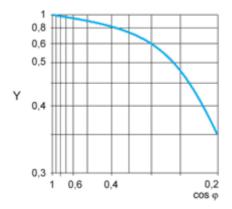
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

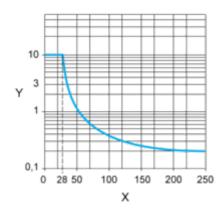
Y Durability (Number of operating cycles)

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



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.