# **Product datasheet**





plug-in relay, Harmony electromechanical relays, 15A, 2CO, with LED, lockable test button, 12V DC

RPM22JD



! Discontinued on: 10 Jul 2021

# ! Discontinued

### Main

Range Of Product	Harmony Electromechanical Relays	
Series Name	Power	
Product Or Component Type	Plug-in relay	
Device Short Name	RPM	
Contacts Type And Composition	2 C/O	
[Uc] Control Circuit Voltage	12 V DC	
[Ithe] Conventional Enclosed Thermal Current	15 A at -4055 °C	
Status Led	With	
Control Type	Lockable test button	
Utilisation Coefficient	20 %	

### Complementary

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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 during 1.2/50 μs
Contacts Material	AgNi
[le] Rated Operational Current	15 A at 277 V (AC) conforming to UL 15 A at 28 V (DC) conforming to UL 15 A at 250 V (AC) NO conforming to IEC 15 A at 28 V (DC) NO conforming to IEC 7.5 A at 250 V (AC) NC conforming to IEC 7.5 A at 28 V (DC) NC conforming to IEC
Maximum Switching Voltage	250 V conforming to IEC
Resistive Load Current	15 A at 250 V AC 15 A at 28 V DC
Maximum Switching Capacity	3750 VA 420 W
Minimum Switching Capacity	170 mW at 10 mA, 17 V
Operating Rate	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load
Mechanical Durability	10000000 cycles
Electrical Durability	100000 cycles for resistive load

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Average Coil Consumption	0.85 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	160 Ohm at 20 °C +/- 10 %	
Rated Operational Voltage Limits	9.613.2 V DC	
Protection Category	RT I	
Test Levels	Level A group mounting	
Operating Position	Any position	
Pollution Degree	3	
Safety Reliability Data	B10d = 100000	
Net Weight	0.036 kg	
Device Presentation	Complete product	

### **Environment**

Dielectric Strength	1500 V AC between contacts with micro disconnection 2000 V AC between coil and contact with reinforced 2000 V AC between poles with basic	
Standards	CSA C22.2 No 14 IEC 61810-1 UL 508	
Product Certifications	CSA UL EAC	
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 5 gn, amplitude = +/- 1 mm (f = 10150 Hz)5 cycles not operating	
Degree Of Protection (Housing Only)	IP40 conforming to IEC 60529	
Shock Resistance	15 gn for in operation 30 gn for not operating	

## **Packing Units**

•	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.000 cm
Package 1 Width	3.000 cm
Package 1 Length	4.500 cm
Package 1 Weight	37.000 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	10
Package 2 Height	3.000 cm
Package 2 Width	10.500 cm
Package 2 Length	12.500 cm
Package 2 Weight	411.000 g

Unit Type Of Package 3	S01
Number Of Units In Package 3	120
Package 3 Height	15.000 cm
Package 3 Width	15.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	5.081 kg

## **Contractual warranty**

Warranty 18 months

# 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

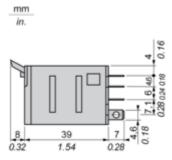
Yes

#### **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
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	No need of specific recycling operations

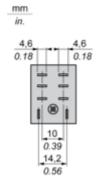
#### **Dimensions Drawings**

#### **Dimensions**





#### Pin Side View

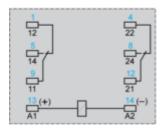


### RPM22JD

Connections and Schema

#### Wiring Diagram





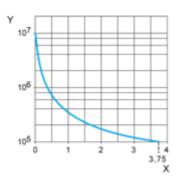
Symbols shown in blue correspond to Nema marking.

#### RPM22JD

#### Performance Curves

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

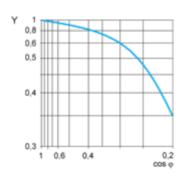
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

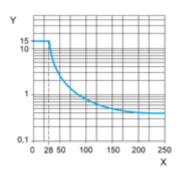
Y Durability (Number of operating cycles)

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.