# Product data sheet

Specifications





plug-in relay, Harmony electromechanical relays, 15A, 2CO, lockable test button, 120V AC

RPM21F7

Product availability: Stock - Normally stocked in distribution facility

Price\*: 7.32 USD

### 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	120 V AC 50/60 Hz
[Ithe] Conventional Enclosed Thermal Current	15 A -40131 °F (-4055 °C)
Status Led	Without
Control Type	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
[le] Rated Operational Current	15 A 277 V AC) UL
	15 A 28 V DC) UL
	15 A 250 V AC) NO IEC
	15 A 28 V DC) NO IEC
	7.5 A 250 V AC) NC IEC
	7.5 A 28 V DC) NC IEC
Maximum Switching Voltage	250 V IEC
Resistive Load Current	15 A 250 V AC
	15 A 28 V DC
Maximum Switching Capacity	3750 VA
	420 W
Minimum Switching Capacity	170 mW 10 mA, 17 V
Operating Rate	<= 1200 cycles/hour under load
	<= 18000 cycles/hour no-load
Mechanical Durability	10000000 cycles

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Electrical Durability	100000 cycles resistive	
Average Coil Consumption In Va	1.1 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	4430 Ohm at 68 °F (20 °C) +/- 15 %	
Rated Operational Voltage Limits	96132 V AC	
Protection Category	RTI	
Test Levels	Level A group mounting	
Operating Position	Any position	
Pollution Degree	3	
Safety Reliability Data	B10d = 100000	
Net Weight	0.08 lb(US) (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	UL EAC CSA	
Ambient Air Temperature For Storage	-40185 °F (-4085 °C)	
Ambient Air Temperature For Operation	-40131 °F (-4055 °C)	
Vibration Resistance	3 gn +/- 1 mm 10150 Hz)5 cycles in operation 5 gn +/- 1 mm 10150 Hz)5 cycles not operating	
Degree Of Protection (Housing Only)	IP40 conforming to IEC 60529	
Shock Resistance	15 gnin operation 30 gnnot operating	

# Ordering and shipping details

Category	US10CP221127	
Discount Schedule	0CP2	
Gtin	3389119401845	
Returnability	Yes	
Country Of Origin	US	

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.85 in (4.7 cm)
Package 1 Width	1.10 in (2.8 cm)

Package 1 Length	0.83 in (2.1 cm)
Package 1 Weight	1.38 oz (39 g)
Unit Type Of Package 2	CAR
Number Of Units In Package 2	10
Package 2 Height	1.18 in (3 cm)
Package 2 Width	4.57 in (11.6 cm)
Package 2 Length	4.02 in (10.2 cm)
Package 2 Weight	13.90 oz (394 g)
Unit Type Of Package 3	S01
Number Of Units In Package 3	120
Package 3 Height	5.91 in (15 cm)
Package 3 Width	5.91 in (15 cm)
Package 3 Length	15.75 in (40 cm)
Package 3 Weight	10.92 lb(US) (4.953 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

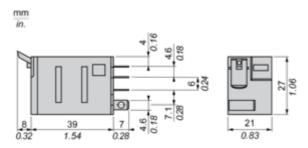
### **Certifications & Standards**

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
California Proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

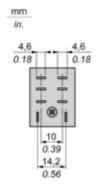
# RPM21F7

### **Dimensions Drawings**

### **Dimensions**



#### Pin Side View

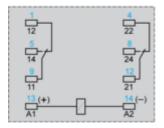


## RPM21F7

Connections and Schema

### Wiring Diagram





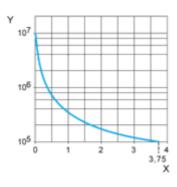
Symbols shown in blue correspond to Nema marking.

### RPM21F7

#### Performance Curves

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

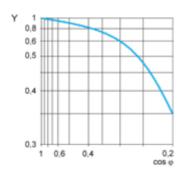
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

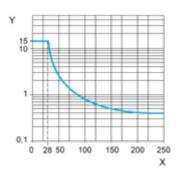
Y Durability (Number of operating cycles)

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.