# Product data sheet

Specification





# plug in relay, Harmony Electromechanical Relays, 15A, 4CO, lockable test button, 48V AC

RPM41E7

! Discontinued on: Jun 30, 2023



Product availability: Non-Stock - Not normally stocked in distribution facility

#### 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	4 C/O
[Uc] Control Circuit Voltage	48 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
Electrical Durability	100000 cycles resistive

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

Average Coil Consumption In Va	2.5 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	310 Ohm at 68 °F (20 °C) +/- 15 %
Rated Operational Voltage Limits	38.452.8 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	0.16 lb(US) (0.071 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	UL 508 EN/IEC 61810-1 CSA C22.2 No 14
Product Certifications	EAC CSA UL
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 EN/IEC 60529
Shock Resistance	15 gnin operation 30 gnnot operating

## Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
Gtin	3389119402149
Returnability	No
Country Of Origin	CN

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.10 in (2.8 cm)
Package 1 Width	1.57 in (4 cm)
Package 1 Length	1.85 in (4.7 cm)

Package 1 Weight	2.61 oz (74 g)
Unit Type Of Package 2	BB1
Number Of Units In Package 2	10
Package 2 Height	1.22 in (3.1 cm)
Package 2 Width	4.06 in (10.3 cm)
Package 2 Length	8.90 in (22.6 cm)
Package 2 Weight	26.67 oz (756 g)
Unit Type Of Package 3	S01
Number Of Units In Package 3	40
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	7.45 lb(US) (3.381 kg)

# **Contractual warranty**

Warranty 18 months

# Sustainability Green 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

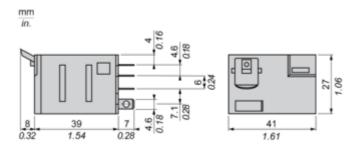
Yes

#### **Certifications & Standards**

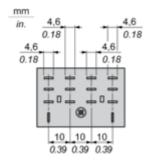
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	No need of specific recycling operations

#### **Dimensions Drawings**

#### **Dimensions**



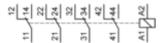
#### Pin Side View

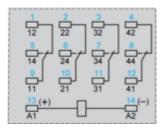


#### **RPM41E7**

Connections and Schema

#### Wiring Diagram





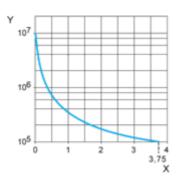
Symbols shown in blue correspond to Nema marking.

#### RPM41E7

#### Performance Curves

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

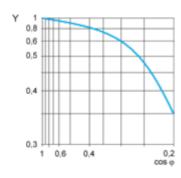
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

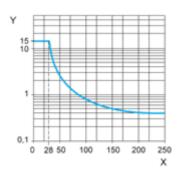
Y Durability (Number of operating cycles)

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.