

# Product data sheet

Specifications



plug-in relay, Harmony  
electromechanical relays, 15A, 2CO,  
with LED, 120V AC

RPM23F7

**Product availability: Stock - Normally stocked in distribution facility**

## Main

Range of Product	Harmony Electromechanical Relays
Series name	RPM series
Product or Component Type	Plug-in relay
Contacts type and composition	2 C/O
Relay Type	Power relay
Status LED	With
[Uc] control circuit voltage	120 V AC 50/60 Hz
Minimum switching capacity	170 mW 10 mA, 17 V
Release time	20 ms at nominal voltage
Ambient air temperature for operation	-40...131 °F (-40...55 °C)
[Ithe] conventional enclosed thermal current	15 A -40...131 °F (-40...55 °C)

## Complementary

Control Type	Without lockable test button
[Ie] 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
Degree of protection (Housing only)	IP40 conforming to IEC 60529
Rated operational voltage limits	96...132 V AC
[Ui] rated insulation voltage	250 V IEC 300 V CSA 300 V UL
Maximum switching voltage	250 V IEC
Drop-out voltage threshold	$\geq 0.15 U_c$ AC
Maximum switching capacity	3750 VA 420 W
Mechanical durability	10000000 cycles
Electrical durability	100000 cycles resistive
Safety reliability data	B10d = 100000
Operating rate	$\leq 1200$ cycles/hour under load $\leq 18000$ cycles/hour no-load
Utilisation coefficient	20 %

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

<b>Dielectric strength</b>	1500 V AC between contacts with micro disconnection 2000 V AC between coil and contact with reinforced 2000 V AC between poles with basic
<b>[Uimp] rated impulse withstand voltage</b>	4 kV 1.2/50 µs
<b>Protection category</b>	RT I
<b>Mounting Support</b>	Plug-in
<b>Operating position</b>	Any position
<b>Test levels</b>	Level A group mounting
<b>Device presentation</b>	Complete product
<b>Contacts material</b>	AgNi
<b>Shape of pin</b>	Flat (faston type)
<b>Product Weight</b>	0.079 lb(US) (0.036 kg)

## Environment

<b>Average coil consumption in VA</b>	1.1 60 Hz
<b>Pollution degree</b>	3
<b>Standards</b>	CSA C22.2 No 14 UL 508 IEC 61810-1
<b>Product Certifications</b>	CSA UL EAC
<b>Ambient Air Temperature for Storage</b>	-40...185 °F (-40...85 °C)
<b>Vibration resistance</b>	3 gn +/- 1 mm 10...150 Hz)5 cycles in operation 5 gn +/- 1 mm 10...150 Hz)5 cycles not operating
<b>Shock resistance</b>	15 gn in operation 30 gn not operating

## Ordering and shipping details

<b>Category</b>	US10CP221127
<b>Discount Schedule</b>	0CP2
<b>GTIN</b>	3389119218016
<b>Returnability</b>	Yes
<b>Country of origin</b>	CN

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	1.06 in (2.700 cm)
<b>Package 1 Width</b>	0.83 in (2.100 cm)
<b>Package 1 Length</b>	1.54 in (3.900 cm)
<b>Package weight(Lbs)</b>	1.270 oz (36.000 g)
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	10
<b>Package 2 Height</b>	1.18 in (3.000 cm)

<b>Package 2 Width</b>	4.02 in (10.200 cm)
<b>Package 2 Length</b>	4.92 in (12.500 cm)
<b>Package 2 Weight</b>	14.109 oz (400.000 g)
<b>Unit Type of Package 3</b>	S01
<b>Number of Units in Package 3</b>	120
<b>Package 3 Height</b>	5.91 in (15.000 cm)
<b>Package 3 Width</b>	5.91 in (15.000 cm)
<b>Package 3 Length</b>	15.75 in (40.000 cm)
<b>Package 3 Weight</b>	11.186 lb(US) (5.074 kg)

## Contractual warranty

<b>Warranty</b>	18 months
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)	17
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## Use Better

### Materials and Substances

Packaging made with recycled cardboard	Yes
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Packaging without single use plastic	Yes
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[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

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](http://www.P65Warnings.ca.gov)

## Use Again

### Repack and remanufacture

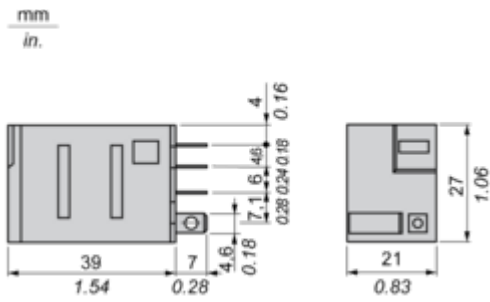
Circularity Profile	No need of specific recycling operations
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Take-back	No
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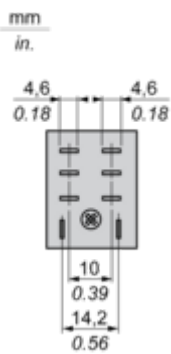
Dimensions Drawings

Dimensions

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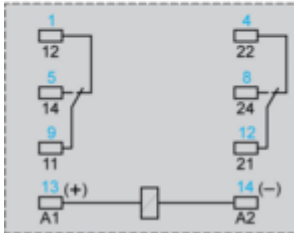
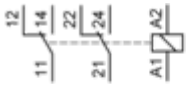
Pin Side View



Connections and Schema

Wiring Diagram

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Symbols shown in blue correspond to Nema marking.

Performance Curves

**Electrical Durability of Contacts**

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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.

Technical Illustration

Dimensions

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