

# Product data sheet

Specifications



plug-in relay, Harmony  
electromechanical relays, 15A,  
2CO, with LED, 24V AC

RPM23B7

## 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	24 V AC 50/60 Hz
[Ithe] Conventional Enclosed Thermal Current	15 A -40...131 °F (-40...55 °C)
Status Led	With
Control Type	Without 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
[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
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
Average Coil Consumption In Va	1.1 60 Hz
Drop-Out Voltage Threshold	>= 0.15 Uc AC

<b>Operate Time</b>	20 ms at nominal voltage
<b>Release Time</b>	20 ms at nominal voltage
<b>Average Coil Resistance</b>	177 Ohm 68 °F (20 °C) +/- 15 %
<b>Rated Operational Voltage Limits</b>	19.2...26.4 V AC
<b>Protection Category</b>	RT I
<b>Test Levels</b>	Level A group mounting
<b>Operating Position</b>	Any position
<b>Pollution Degree</b>	3
<b>Safety Reliability Data</b>	B10d = 100000
<b>Width</b>	0.83 in (21 mm)
<b>Height</b>	1.06 in (27 mm)
<b>Depth</b>	1.54 in (39 mm)
<b>Net Weight</b>	0.08 lb(US) (0.036 kg)
<b>Device Presentation</b>	Complete product

## Environment

<b>Dielectric Strength</b>	1500 V AC between contacts micro disconnection 2000 V AC between coil and contact reinforced 2000 V AC between poles basic
<b>Standards</b>	CSA C22.2 No 14 UL 508 EN/IEC 61810-1
<b>Product Certifications</b>	EAC CSA UL
<b>Ambient Air Temperature For Storage</b>	-40...185 °F (-40...85 °C)
<b>Ambient Air Temperature For Operation</b>	-40...131 °F (-40...55 °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>Degree Of Protection (Housing Only)</b>	IP40 conforming to EN/IEC 60529
<b>Shock Resistance</b>	15 gn in operation 30 gn not operating

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	0.87 in (2.2 cm)
<b>Package 1 Width</b>	1.10 in (2.8 cm)
<b>Package 1 Length</b>	1.89 in (4.8 cm)
<b>Package 1 Weight</b>	1.31 oz (37 g)
<b>Unit Type Of Package 2</b>	BB1
<b>Number Of Units In Package 2</b>	10
<b>Package 2 Height</b>	1.34 in (3.4 cm)
<b>Package 2 Width</b>	4.09 in (10.4 cm)
<b>Package 2 Length</b>	4.92 in (12.5 cm)

<b>Package 2 Weight</b>	14.18 oz (402 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 cm)
<b>Package 3 Width</b>	5.91 in (15 cm)
<b>Package 3 Length</b>	15.75 in (40 cm)
<b>Package 3 Weight</b>	11.22 lb(US) (5.088 kg)

## Contractual warranty

<b>Warranty</b>	18 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class 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

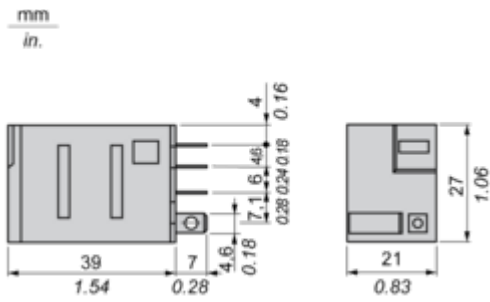
## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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

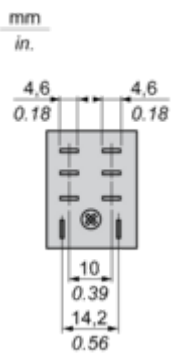
Dimensions Drawings

Dimensions

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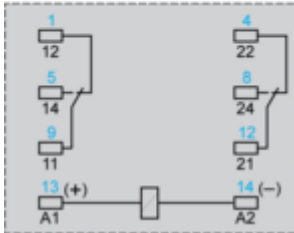
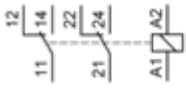
Pin Side View



Connections and Schema

Wiring Diagram

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Symbols shown in blue correspond to Nema marking.

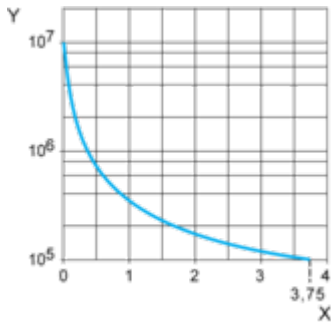
Performance Curves

**Electrical Durability of Contacts**

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

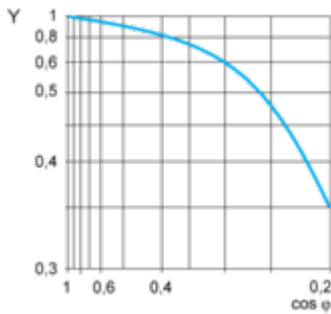
Resistive AC load



X Switching capacity (kVA)

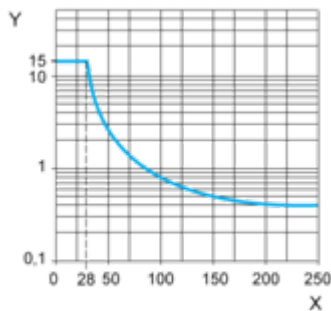
Y Durability (Number of operating cycles)

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.