

# Product data sheet

Specifications



plug-in relay, Harmony  
electromechanical relays, 15A, 2CO,  
with LED, lockable test button, 24V  
DC

RPM22BD

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

**Price\* : 8.30 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	24 V DC
[Ithe] conventional enclosed thermal current	15 A -40...131 °F (-40...55 °C)
Status LED	With
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
[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

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

<b>Mechanical durability</b>	10000000 cycles
<b>Electrical durability</b>	100000 cycles resistive
<b>Average coil consumption</b>	0.85 W
<b>Drop-out voltage threshold</b>	>= 0.1 U <sub>c</sub> DC
<b>Operate time</b>	20 ms at nominal voltage
<b>Release time</b>	20 ms at nominal voltage
<b>Average coil resistance</b>	640 Ohm at 68 °F (20 °C) +/- 10 %
<b>Rated operational voltage limits</b>	19.2...26.4 V DC
<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>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 with micro disconnection 2000 V AC between coil and contact with reinforced 2000 V AC between poles with basic
<b>Standards</b>	CSA C22.2 No 14 EN/IEC 61810-1 UL 508
<b>Product Certifications</b>	EAC UL CSA
<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

## Ordering and shipping details

<b>Category</b>	21127-ZELIO ICE CUBE RELAYS
<b>Discount Schedule</b>	CP2
<b>GTIN</b>	3389119401890
<b>Returnability</b>	Yes
<b>Country of origin</b>	CN

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	1.85 in (4.7 cm)
<b>Package 1 Width</b>	0.83 in (2.1 cm)

Package 1 Length	1.10 in (2.8 cm)
Package 1 Weight	1.41 oz (40 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	1.26 in (3.2 cm)
Package 2 Width	4.06 in (10.3 cm)
Package 2 Length	4.96 in (12.6 cm)
Package 2 Weight	14.39 oz (408 g)
Unit Type of Package 3	S02
Number of Units in Package 3	240
Package 3 Height	5.91 in (15 cm)
Package 3 Width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)
Package 3 Weight	22.84 lb(US) (10.362 kg)

## Offer Sustainability

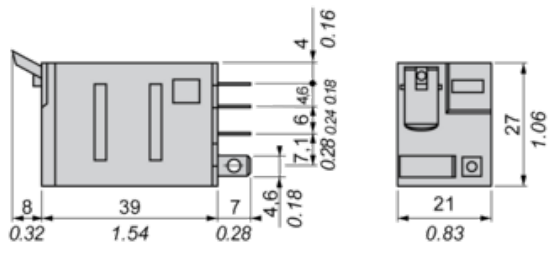
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	Yes
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.

## Contractual warranty

Warranty	18 months
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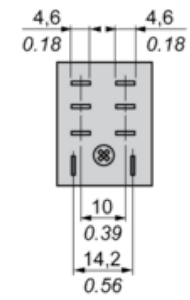
**Dimensions**

mm  
in.



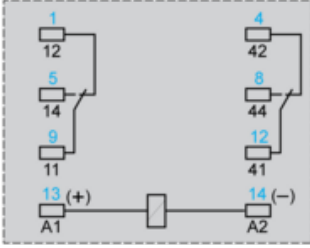
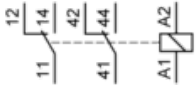
Pin Side View

mm  
in.



## Wiring Diagram

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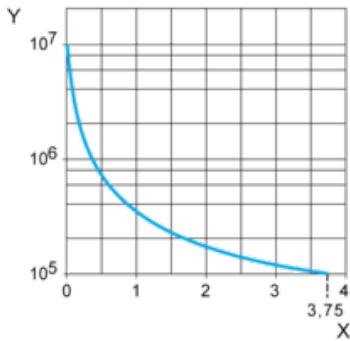
Symbols shown in blue correspond to Nema marking.

**Electrical Durability of Contacts**

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

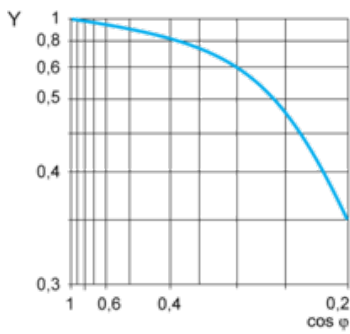
Resistive AC load



X Switching capacity (kVA)

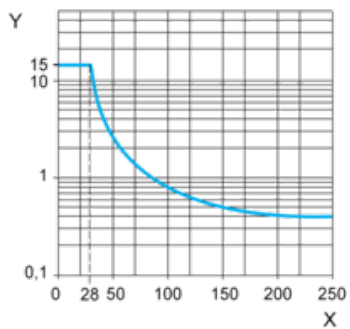
Y Durability (Number of operating cycles)

Reduction coefficient for inductive AC load (depending on power factor  $\cos \phi$ )



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.

**Recommended replacement(s)**