

plug-in relay, Harmony electromechanical relays, 15A, 4CO, with LED, lockable test button, 48V DC

RPM42ED

Product availability: Stock - Normally stocked in distribution

Price\*: 15.74 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	4 C/O
[Uc] control circuit voltage	48 V DC
[Ithe] conventional enclosed thermal current	15 A -40131 °F (-4055 °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
[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

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

<= 18000 cycles/hour no-load

Mechanical durability	10000000 cycles
Electrical durability	100000 cycles resistive
Average coil consumption	1.6 W
Drop-out voltage threshold	>= 0.1 Uc DC
Operate time	20 ms at nominal voltage
Release time	20 ms at nominal voltage
Average coil resistance	1210 Ohm at 68 °F (20 °C) +/- 10 %
Rated operational voltage limits	38.452.8 V DC
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	CSA C22.2 No 14 IEC 61810-1 UL 508
Product Certifications	CSA UL EAC
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	21127-ZELIO ICE CUBE RELAYS
Discount Schedule	CP2
GTIN	3389119402231
Returnability	No
Country of origin	CN

# **Packing Units**

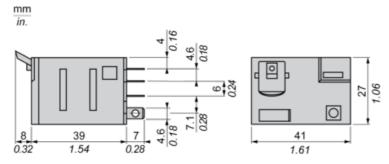
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.10 in (2.8 cm)
Package 1 Width	1.57 in (4 cm)

Package 1 Length	1.85 in (4.7 cm)
Package 1 Weight	2.68 oz (76 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	4.13 in (10.5 cm)
Package 2 Length	8.90 in (22.6 cm)
Package 2 Weight	26.88 oz (762 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	7.39 lb(US) (3.354 kg)
Offer Sustainability 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
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
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
Circularity Profile	No need of specific recycling operations
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

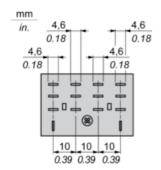
Warranty 18 months

Dimensions Drawings

#### **Dimensions**



Pin Side View

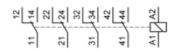


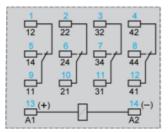
# **Product data sheet**

# RPM42ED

Connections and Schema

## Wiring Diagram





Symbols shown in blue correspond to Nema marking.

## **Product data sheet**

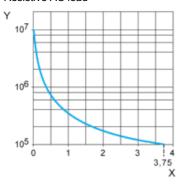
## RPM42ED

Performance Curves

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

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

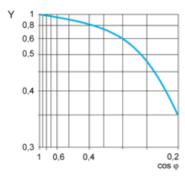
Resistive AC load



X Switching capacity (kVA)

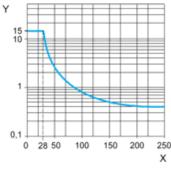
Y Durability (Number of operating cycles)

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



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)