

Product data sheet

Specifications



plug-in relay, Harmony
electromechanical relays, 15A, 1CO,
with LED, lockable test button, 24V
DC

RPM12BD

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	1 C/O
Relay Type	Power relay
Status LED	With
[Uc] control circuit voltage	24 V DC
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	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	19.2...26.4 V DC
[Ui] rated insulation voltage	250 V IEC 300 V CSA 300 V UL
Maximum switching voltage	250 V IEC
Drop-out voltage threshold	>= 0.1 Uc DC
Average coil consumption	1.1 W
Average resistance	450 Ohm at 68 °F (20 °C) +/- 10 %
Maximum switching capacity	3750 VA 420 W
Load current	15 A 250 V AC 15 A 28 V DC
Operating time	20 ms at nominal voltage

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Mechanical durability	10000000 cycles
Electrical durability	100000 cycles resistive
Safety reliability data	B10d = 100000
Operating rate	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load
Utilisation coefficient	20 %
Dielectric strength	1500 V AC between contacts with micro disconnection 2000 V AC between coil and contact with reinforced
[Uimp] rated impulse withstand voltage	4 kV 1.2/50 µs
Protection category	RT I
Mounting Support	Plug-in
Operating position	Any position
Test levels	Level A group mounting
Device presentation	Complete product
Contacts material	AgNi
Shape of pin	Flat (faston type)
Product Weight	0.057 lb(US) (0.026 kg)

Environment

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

Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
GTIN	3389119401739
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	0.551 in (1.400 cm)
Package 1 Width	1.024 in (2.600 cm)
Package 1 Length	1.535 in (3.900 cm)

Package weight(Lbs)	0.847 oz (24.000 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	1.299 in (3.300 cm)
Package 2 Width	3.268 in (8.300 cm)
Package 2 Length	4.331 in (11.000 cm)
Package 2 Weight	9.665 oz (274.000 g)
Unit Type of Package 3	S02
Number of Units in Package 3	360
Package 3 Height	5.906 in (15.000 cm)
Package 3 Width	11.811 in (30.000 cm)
Package 3 Length	15.748 in (40.000 cm)
Package 3 Weight	22.888 lb(US) (10.382 kg)

Contractual warranty

Warranty (in months)	18
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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

Total lifecycle Carbon footprint	14 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.3 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	14 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACH Regulation	Free of Substances of Very High Concern above the threshold
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

Use Longer



Lifetime extension

Repair	No
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Use Again

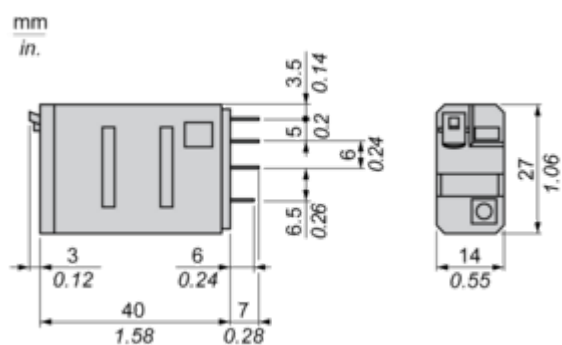


Repack and remanufacture

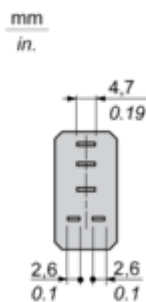
Recyclability potential, in %	67
Circularity Profile	No need of specific recycling operations
Take-back	No

Dimensions Drawings

Dimensions

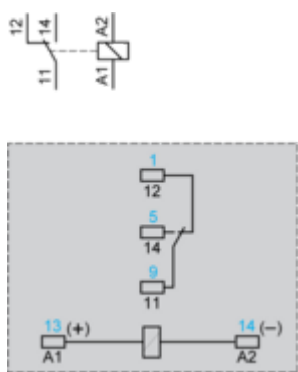


Pin Side View



Connections and Schema

Wiring Diagram

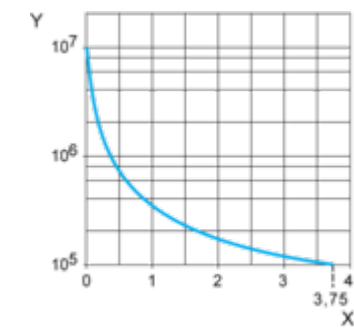


Symbols shown in blue correspond to Nema marking.

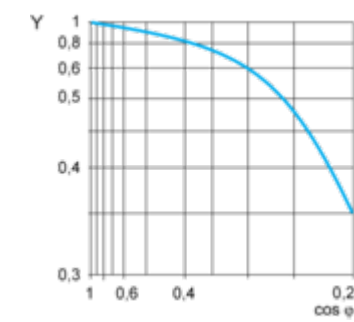
Performance Curves

Electrical Durability of Contacts

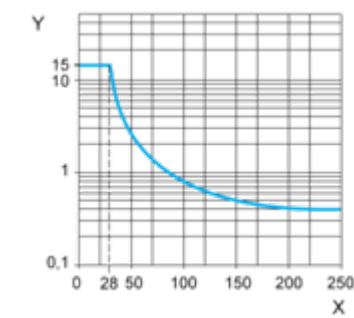
Durability (inductive load) = durability (resistive load) x reduction coefficient.
Resistive AC load



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.

Technical Illustration

Dimensions

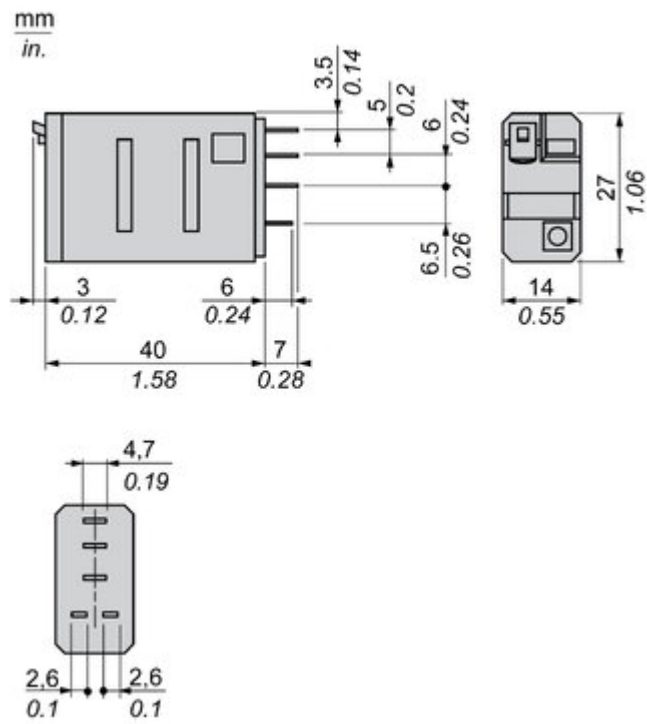


Image of product / Alternate images

Alternative

