

Product data sheet

Characteristics

RPM31F7

Harmony, Power plug-in relay, 15 A, 3 CO, with lockable test button, 120 V AC



Product availability: Stock - Normally stocked in distribution facility

Price*: 9.88 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	3 C/O
[Uc] control circuit voltage	120 V AC 50/60 Hz
[Ithe] conventional enclosed thermal current	15 A -40...131 °F (-40...55 °C)
Status LED	Without
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
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	1.7 60 Hz
Drop-out voltage threshold	>= 0.15 Uc AC
Operating time	20 ms at nominal voltage
Reset time	20 Ms at nominal voltage
Average resistance	2880 Ohm at 68 °F (20 °C) +/- 15 %
Rated operational voltage limits	96...132 V AC
Protection category	RT I
Test levels	Level A
Operating position	Any position
Pollution degree	3
Safety reliability data	B10d = 100000
Net weight	0.12 Lb(US) (0.054 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 EN/IEC 61810-1 UL 508
Product certifications	UL EAC CSA
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Ambient air temperature for operation	-40...131 °F (-40...55 °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
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	15 gn in operation 30 gn not operating

Ordering and shipping details

Category	21127 - ZELIO ICE CUBE RELAYS
Discount Schedule	CP2
GTIN	03389119402002
Nbr. of units in pkg.	1
Package weight(Lbs)	1.94 Oz (55 g)
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.85 In (47 mm)
Package 1 width	1.22 In (31 mm)
Package 1 Length	1.10 In (28 mm)

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 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
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

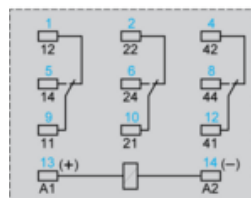
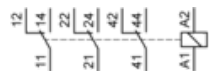
Warranty	18 months
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Technical drawing of the 1000 Series 1/2" component. The drawing includes a side view and a top view. The side view shows a rectangular component with a handle on the left and a mounting bracket on the right. Dimensions are provided in both millimeters (mm) and inches (in.). The top view shows the component's footprint with a central rectangular cutout and a smaller rectangular feature on the right side.

Dimensions (mm/in.):

- Overall width: 8 mm / 0.32 in.
- Distance from handle to first vertical slot: 39 mm / 1.54 in.
- Distance between vertical slots: 7 mm / 0.28 in.
- Distance from last vertical slot to mounting bracket: 4.6 mm / 0.18 in.
- Distance from mounting bracket to center of circular feature: 7.1 mm / 0.28 in.
- Distance from center of circular feature to right edge: 4.6 mm / 0.18 in.
- Distance from center of circular feature to right edge (alternative measurement): 6 mm / 0.24 in.
- Overall height: 27 mm / 1.06 in.
- Overall width (top view): 31 mm / 1.22 in.

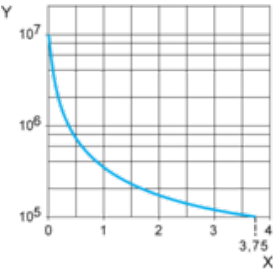
Wiring Diagram



Symbols shown in blue correspond to Nema marking.

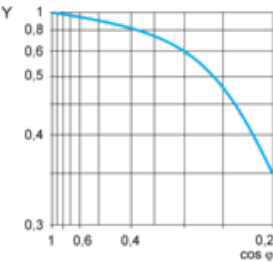
Electrical Durability of Contacts

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



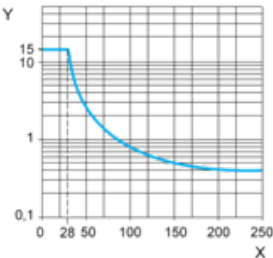
X Switching capacity (kVA)
Y Durability (Number of operating cycles)

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.

Product Life Status :

Commercialised