

# Product data sheet

Specifications



## Zelio RUM, universal plugin relay, 2 C/O, octal base, 10 A, 120 VAC, with LED

RUMC22F7

Product availability : Stock - Normally stocked in distribution facility

**Price\* : 13.79 USD**

### Main

Range of Product	Harmony Electromechanical Relays
Series name	Universal
Product or Component Type	Plug-in relay
Device short name	RUM
Contacts type and composition	2 C/O
[Uc] control circuit voltage	120 V AC 50/60 Hz
[Ithe] conventional enclosed thermal current	10 A -40...131 °F (-40...55 °C)
Status LED	With
Control Type	Lockable test button
Utilisation coefficient	20 %

### Complementary

Shape of pin	Cylindrical
[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	10 A at 277 V AC conforming to UL 10 A at 30 V DC conforming to UL 10 A at 30 V DC conforming to CSA 5 A at 250 V AC (NC) conforming to IEC 5 A at 28 V DC (NC) conforming to IEC 10 A at 250 V AC (NO) conforming to IEC 10 A at 28 V DC (NO) conforming to IEC 10 A at 277 V AC conforming to CSA
Maximum switching voltage	250 V IEC
Resistive rated load	10 A 250 V AC 10 A 28 V DC
Maximum switching capacity	2500 VA/280 W
Minimum switching capacity	170 mW 10 mA, 17 V
Operating rate	<= 18000 cycles/hour no-load <= 1200 cycles/hour under 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>	5000000 cycles
<b>Electrical durability</b>	100000 cycles resistive
<b>Average coil consumption in VA</b>	3 60 Hz
<b>Drop-out voltage threshold</b>	>= 0.15 U <sub>c</sub> AC
<b>Operate time</b>	20 ms at nominal voltage
<b>Release time</b>	20 ms at nominal voltage
<b>Average coil resistance</b>	1700 Ohm 20 °C +/- 15 %
<b>Rated operational voltage limits</b>	96...132 V AC
<b>Protection category</b>	RT I
<b>Test levels</b>	Level A
<b>Safety reliability data</b>	B10d = 100000
<b>Operating position</b>	Any position
<b>Net Weight</b>	0.19 lb(US) (0.086 kg)
<b>Device presentation</b>	Complete product

## Environment

<b>Dielectric strength</b>	1500 V AC between contacts with micro disconnection 2500 V AC between coil and contact with reinforced 2000 V AC between poles with basic
<b>Product Certifications</b>	EAC UL CSA
<b>Standards</b>	EN/IEC 61810-1 UL 508 CSA C22.2 No 14
<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 4 gn +/- 1 mm 10...150 Hz)5 cycles not operating
<b>IP degree of protection</b>	IP40
<b>Shock resistance</b>	10 gn 11 ms) in operation EN/IEC 60068-2-27 10 gn 11 ms) not operating EN/IEC 60068-2-27
<b>Pollution degree</b>	3

## Ordering and shipping details

<b>Category</b>	21127-ZELIO ICE CUBE RELAYS
<b>Discount Schedule</b>	CP2
<b>GTIN</b>	3606480626692
<b>Nbr. of units in pkg.</b>	1
<b>Package weight(Lbs)</b>	3.10 oz (88.0 g)
<b>Returnability</b>	Yes
<b>Country of origin</b>	CN

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Package 1 Height</b>	1.42 in (3.6 cm)
<b>Package 1 width</b>	1.38 in (3.5 cm)

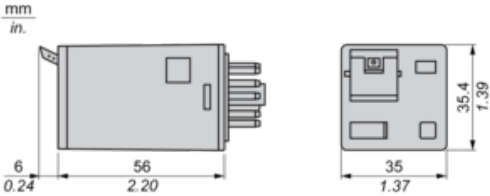
<b>Package 1 Length</b>	2.72 in (6.9 cm)
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	10
<b>Package 2 Weight</b>	33.40 oz (947.0 g)
<b>Package 2 Height</b>	1.57 in (4 cm)
<b>Package 2 width</b>	5.75 in (14.6 cm)
<b>Package 2 Length</b>	7.87 in (20 cm)
<b>Unit Type of Package 3</b>	S02
<b>Number of Units in Package 3</b>	60
<b>Package 3 Weight</b>	13.67 lb(US) (6.2 kg)
<b>Package 3 Height</b>	5.91 in (15 cm)
<b>Package 3 width</b>	11.81 in (30 cm)
<b>Package 3 Length</b>	15.75 in (40 cm)

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>California proposition 65</b>	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>
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>REACH free of SVHC</b>	Yes
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Toxic heavy metal free</b>	Yes
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>

Dimensions

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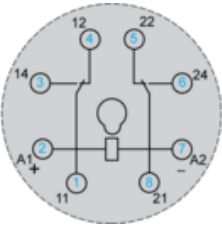
**Wiring Diagram**

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**Wiring Diagram**

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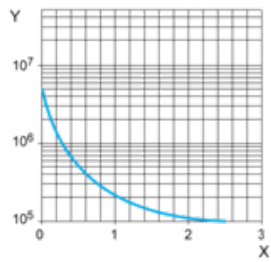
Symbols shown in blue correspond to Nema marking.

**Electrical Durability of Contacts**

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

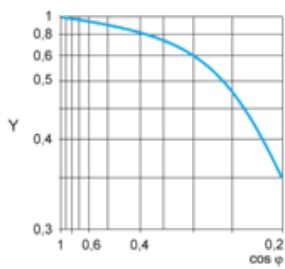
Resistive AC load



X Switching capacity (kVA)

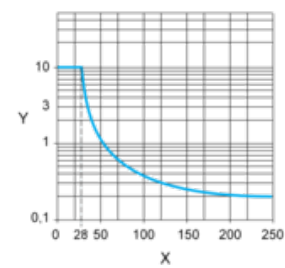
Y Durability (Number of operating cycles)

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.