

# RUMC33JD

universal plug-in relay - Zelio RUM - 3 C/O - 12 V  
DC - 10 A - with LED

Product availability : Non-Stock - Not normally stocked in distribution facility



Price\*\* : 14.15 USD



## Main

Range of product	Zelio Relay
Series name	Universal
Product or component type	Plug-in relay
Device short name	RUM
Contacts type and composition	3 C/O
[Uc] control circuit voltage	12 V DC
[Ithe] conventional enclosed thermal current	10 A -40...131 °F (-40...55 °C)
Status LED	With
Control type	Without 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 277 V AC UL 10 A 30 V DC UL 10 A 277 V AC same polarity)CSA 10 A 30 V DC CSA 5 A 250 V AC NC)IEC 5 A 28 V DC NC)IEC 10 A 250 V AC NO)IEC 10 A 28 V DC NO)IEC
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
Mechanical durability	5000000 cycles
Electrical durability	100000 cycles resistive
Average coil consumption in W	1.4 W
Drop-out voltage threshold	>= 0.1 U <sub>c</sub> DC
Operate time	20 ms at nominal voltage
Release time	20 ms at nominal voltage
Average coil resistance	120 Ohm 20 °C +/- 15 %
Rated operational voltage limits	9.6...13.2 V DC
Protection category	RT I
Test levels	Level A
Safety reliability data	B10d = 100000
Operating position	Any position
Net weight	0.19 lb(US) (0.086 kg)
Device presentation	Complete product

## Environment

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

## Ordering and shipping details

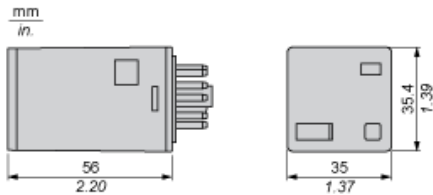
Category	21127 - ZELIO ICE CUBE RELAYS
Discount Schedule	CP2
GTIN	00785901624745
Package weight(Lbs)	0.91 kg (2 lb(US))
Returnability	No
Country of origin	CN

## Offer Sustainability

Sustainable offer status	Green Premium product
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
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	No need of specific recycling operations

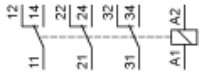
Dimensions



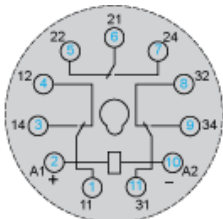
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## Wiring Diagram

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Wiring Diagram

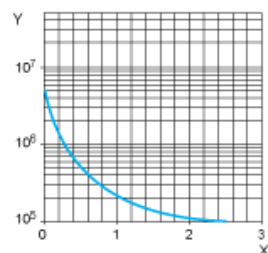


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

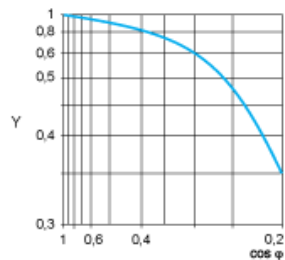
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



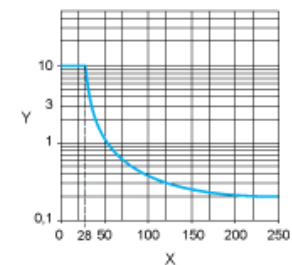
X Switching capacity (kVA)  
Y Durability (Number of operating cycles)

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



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.