Product data sheet
Characteristics

RUMC23JD
universal plug-in relay - Zelio RUM - 2 C/O - 12 V DC - 10 A - with LED

Main

Commercial Status	Commercialised
Range of product	Zelio Relay
Series name	Universal
Product or component type	Plug-in relay
Device short name	RUM
Contacts type and composition	2 C/O
Control circuit voltage	12 V DC
[Ithe] conventional enclosed thermal current	10 A at -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	300 V conforming to UL 300 V conforming to CSA 250 V conforming to IEC
[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 CSA 10 A at 28 V DC (NO) conforming to IEC 10 A at 250 V AC (NO) conforming to IEC 5 A at 28 V DC (NC) conforming to IEC 5 A at 250 V AC (NC) conforming to IEC 10 A at 30 V DC conforming to CSA 10 A at 30 V DC conforming to UL 10 A at 277 V AC conforming to UL
Maximum switching voltage	250 V conforming to IEC
Load current	10 A at 28 V DC 10 A at 250 V AC
Maximum switching capacity	2500 VA/280 W
Minimum switching capacity	170 mW at 10 mA, 17 V
Operating rate	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load
Mechanical durability	5000000 cycles
Electrical durability	100000 cycles resistive load
Average consumption in W	1.4 W
Drop-out voltage threshold	>= 0.1 Uc DC
Operating time	20 ms at nominal voltage
Reset time	20 ms at nominal voltage
Average resistance	120 Ohm at 20 °C +/- 15 %
Rated operational voltage limits	9.6...13.2 V DC
Protection category	RT I
Safety reliability data	B10d = 100000
Operating position	Any position
Product weight	0.19 lb(US) (0.086 kg)

Environment

Dielectric strength	2000 V AC between poles with basic insulation 2500 V AC between coil and contact with reinforced insulation 1500 V AC between contacts with micro disconnection insulation
Product certifications	CSA RoHS UL REACH EAC
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	4 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 5 cycles not operating) 3 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 5 cycles in operation)
IP degree of protection	IP40
Shock resistance	10 gn 11 ms not operating conforming to EN/IEC 60068-2-27 10 gn 11 ms in operation conforming to EN/IEC 60068-2-27
Pollution degree	3

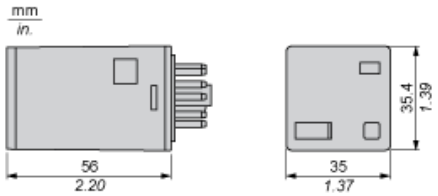
Ordering and shipping details

Category	21127 - ZELIO ICE CUBE RELAYS
Discount Schedule	CP2
GTIN	00785901516750
Nbr. of units in pkg.	10
Returnability	N
Country of origin	CN

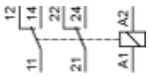
Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1409 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental Profile
Product end of life instructions	Need no specific recycling operations

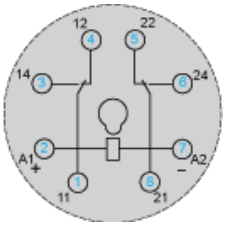
Dimensions



Wiring Diagram



Wiring Diagram

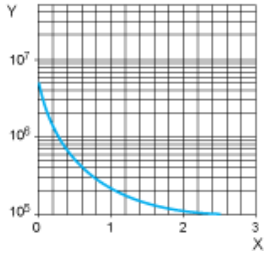


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

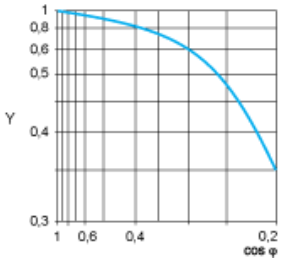
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



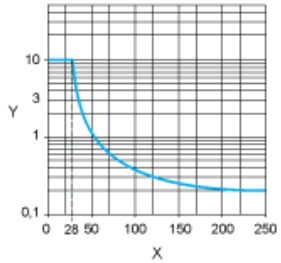
X Switching capacity (kVA)
Y Durability (Number of operating cycles)

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.