

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



### Main

Range of product	Zelio Relay
Series name	Interface relay
Product or component type	Plug-in relay
Device short name	RSB
Contacts type and composition	1 C/O
Contact operation	Standard
[Uc] control circuit voltage	120 V AC
[Ithe] conventional enclosed thermal current	16 A at -40...104 °F (-40...40 °C)
Status LED	Without
Control type	Without push-button
Sale per indivisible quantity	10

### Complementary

Shape of pin	Flat
Average coil resistance	10200 Ohm (AC) at 20 °C +/- 15 %
System Voltage	102...144 V, 60 Hz AC 96...144 V, 50 Hz AC
[Ui] rated insulation voltage	400 V conforming to EN/IEC 60947
[Uimp] rated impulse withstand voltage	3.6 kV conforming to IEC 61000-4-5
Contacts material	Silver alloy (Ag/Ni)
[Ie] rated operational current	16 A, NO (AC-1/DC-1) conforming to IEC 8 A, NC (AC-1/DC-1) conforming to IEC
Minimum switching current	5 mA
Maximum switching voltage	300 V DC 400 V AC
Minimum switching voltage	5 V
Maximum switching capacity	4000 VA (AC) 448 W (DC)
Resistive rated load	16 A at 250 V AC 16 A at 28 V DC
Minimum switching capacity	300 mWat 5 mA
Operating rate	<= 600 cycles/hour under load <= 72000 cycles/hour no-load
Mechanical durability	30000000 cycles
Electrical durability	100000 cycles (16 A at 250 V, AC-1) NO 100000 cycles (8 A at 250 V, AC-1) NC
Operating time	10 ms between coil de-energisation and making of the Off-delay contact 12 ms between coil energisation and making of the On-delay contact
Marking	CE
Average coil consumption	0.75 VA AC at 60 Hz
Drop-out voltage threshold	>= 0.15 Uc AC
Safety reliability data	B10d = 100000
Protection category	RT I
Operating position	Any position
Device presentation	Complete product

## Environment

Dielectric strength	1000 V AC between contacts 2500 V AC between poles 5000 V AC between coil and contact
Standards	UL 508 EN/IEC 61810-1 CSA C22.2 No 14
Product certifications	CSA GOST UL
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Vibration resistance	+/- 1 mm (f = 10...55 Hz) conforming to EN/IEC 60068-2-6
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	10 gn for 11 ms not operating conforming to EN/IEC 60068-2-27 5 gn for 11 ms in operation conforming to EN/IEC 60068-2-27
Ambient air temperature for operation	-40...158 °F (-40...70 °C) (AC) -40...185 °F (-40...85 °C) (DC)

## Ordering and shipping details

Category	21127 - ZELIO ICE CUBE RELAYS
Discount Schedule	CP2
GTIN	00785901438649
Nbr. of units in pkg.	20
Package weight(Lbs)	4.0000000000000001E-2
Returnability	N
Country of origin	FR

## Offer Sustainability

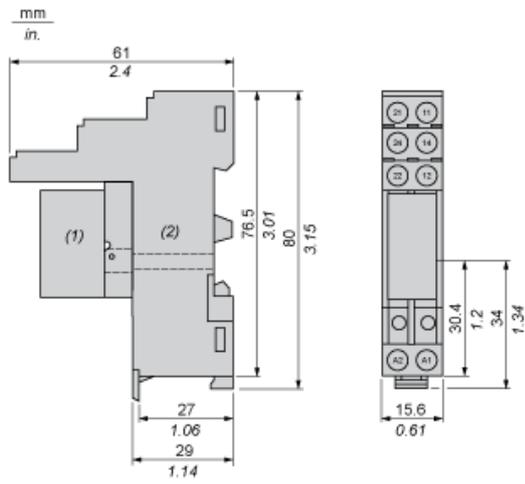
California proposition 65	WARNING: This product can expose you to chemicals including:
----- Substance 1	Nickel compounds, which is known to the State of California to cause cancer, and
----- Substance 2	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
----- More information	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

## Contractual warranty

Warranty period	18 months
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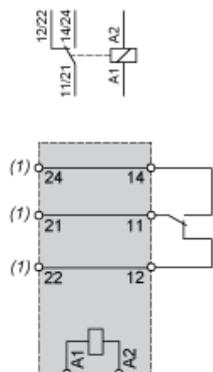
Dimensions

Relay Complete with Socket



- (1) Relays
- (2) Socket

## Wiring Diagram



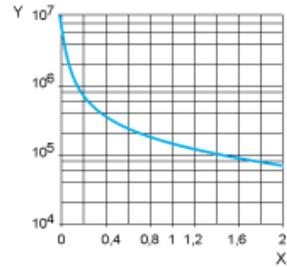
(1) Terminals 11 and 21, 14 and 24, 12 and 22 must be linked for this references

NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

Electrical Durability of Contacts

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

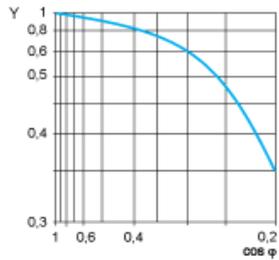
Resistive AC load



X Switching capacity (kVA)

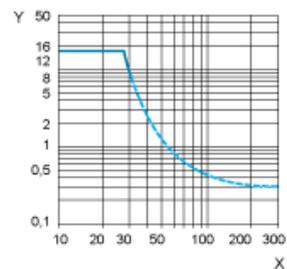
Y Durability (Number of operating cycles)

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.

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