



### Main

Range of Product	Harmony Electromechanical Relays
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	24 V DC
[Ithe] conventional enclosed thermal current	16 A -40...104 °F (-40...40 °C)
Status LED	Without
Control Type	Without push-button

### Complementary

Shape of pin	Flat (PCB type)
Average coil resistance	1440 Ohm AC 20 °C +/- 10 %
[Ue] rated operational voltage	16.8...36 V DC
[Ui] rated insulation voltage	400 V EN/IEC 60947
[Uimp] rated impulse withstand voltage	3.6 kV IEC 61000-4-5
Contacts material	Silver alloy (AgNi)
[Ie] rated operational current	16 A AC-1/DC-1) NO IEC 8 A AC-1/DC-1) NC IEC
Minimum switching current	10 mA
Maximum switching voltage	300 V DC IEC
Minimum switching voltage	12 V
Maximum switching capacity	4000 VA/448 W
Resistive rated load	16 A 250 V AC 16 A 28 V DC
Minimum switching capacity	120 mW 10 mA, 12 V
Operating rate	<= 600 cycles/hour under load <= 18000 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	20 ms operating 20 ms reset
Marking	CE
Average coil consumption	0.45 W DC
Drop-out voltage threshold	>= 0.1 Uc DC
Safety reliability data	B10d = 100000
Protection category	RT I
Test levels	Level A
Operating position	Any position
Net Weight	0.03 lb(US) (0.014 kg)
Sale per indivisible quantity	10
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 CSA C22.2 No 14 EN/IEC 61810-1
Product Certifications	EAC CSA UL
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Vibration resistance	+/- 1 mm 10...55 Hz)EN/IEC 60068-2-6
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	10 gn 11 ms) not operating EN/IEC 60068-2-27 5 gn 11 ms) in operation EN/IEC 60068-2-27
Ambient air temperature for operation	-40...185 °F (-40...85 °C) DC)

## Ordering and shipping details

Category	21127 - ZELIO ICE CUBE RELAYS
Discount Schedule	CP2
GTIN	3389110254464
Nbr. of units in pkg.	1
Package weight(Lbs)	0.56 oz (16 g)
Returnability	Yes
Country of origin	AT

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	0.67 in (1.7 cm)
Package 1 width	0.98 in (2.5 cm)
Package 1 Length	12.20 in (31 cm)
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Weight	5.64 oz (160 g)
Package 2 Height	0.67 in (1.7 cm)
Package 2 width	0.98 in (2.5 cm)
Package 2 Length	12.24 in (31.1 cm)
Unit Type of Package 3	CAR
Number of Units in Package 3	10
Package 3 Weight	5.15 oz (146 g)
Package 3 Height	0.67 in (1.7 cm)
Package 3 width	13.07 in (33.2 cm)
Package 3 Length	1.06 in (2.7 cm)

## Offer Sustainability

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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
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>

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Environmental Disclosure	<a href="#">Product Environmental Profile</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

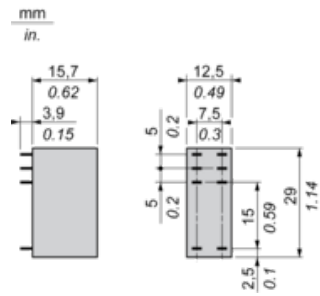
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**Contractual warranty**

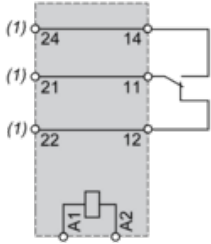
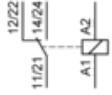
Warranty	18 months
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Dimensions



Wiring Diagram



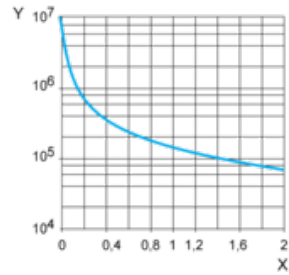
(1) Terminals 11 and 21, 14 and 24, 12 and 22 must be linked for this references

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.

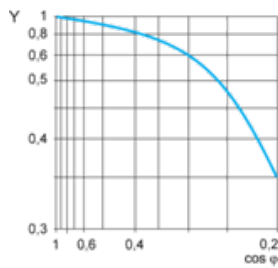
Resistive AC load



X Switching capacity (kVA)

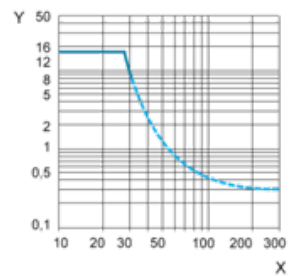
Y Durability (Number of operating cycles)

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.