

Product data sheet

Characteristics

RSB1A120BD

interface plug-in relay - Zelio RSB - 1 C/O - 24 V DC - 12 A

Product availability : Stock - Normally stocked in distribution facility

Price* : 4.27 USD



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	24 V DC
[Ithe] conventional enclosed thermal current	12 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 (PCB type)
Average coil resistance	1440 Ohm (AC) at 20 °C +/- 10 %
System Voltage	16.8...36 V DC
[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 (AgNi)
[Ie] rated operational current	12 A, NO (AC-1/DC-1) conforming to IEC 6 A, NC (AC-1/DC-1) conforming to IEC
Minimum switching current	10 mA
Maximum switching voltage	250 V DC conforming to IEC
Minimum switching voltage	12 V
Maximum switching capacity	3000 VA/336 W
Resistive rated load	12 A at 250 V AC 12 A at 28 V DC
Minimum switching capacity	120 mW at 10 mA / 12 V
Operating rate	<= 600 cycles/hour under load <= 18000 cycles/hour no-load

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Mechanical durability	30000000 cycles
Electrical durability	100000 cycles (12 A at 250 V, AC-1) NO 100000 cycles (6 A at 250 V, AC-1) NC
Operating time	20 ms operating 20 ms reset
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 group mounting
Operating position	Any position
Product weight	0.03 lb(US) (0.014 kg)
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	CSA C22.2 No 14 UL 508 EN/IEC 61810-1
Product certifications	EAC CSA 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...185 °F (-40...85 °C) (DC)

Ordering and shipping details

Category	21127 - ZELIO ICE CUBE RELAYS
Discount Schedule	CP2
GTIN	00785901569121
Nbr. of units in pkg.	10
Package weight(Lbs)	2.999999999999999E-2
Returnability	Y
Country of origin	AT

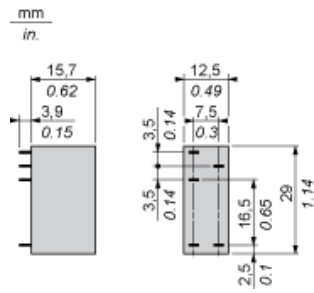
Offer Sustainability

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 www.p65warnings.ca.gov

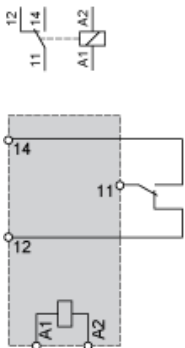
Contractual warranty

Warranty period	18 months
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Dimensions



Wiring Diagram

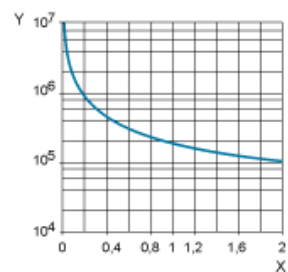


NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

Electrical Durability of Contacts

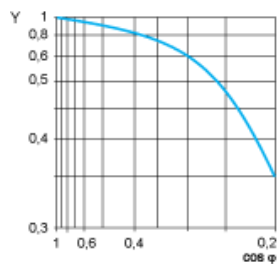
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



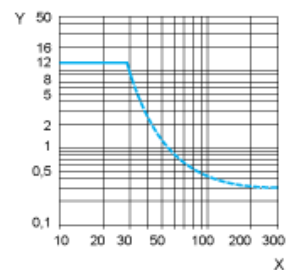
X Switching capacity (kVA)
Y Durability (Number of operating cycles)

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.