

# RSB1A120B7S

interface plug-in relay - Zelio RSB - 1 C/O - 24 V AC  
- 12 A - with socket



## 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 AC
[Ithe] conventional enclosed thermal current	12 A at -40...40 °C
Status LED	Without
Control type	Without push-button
Sale per indivisible quantity	10

## Complementary

Shape of pin	Flat
Average resistance	400 Ohm (AC) at 20 °C +/- 15 %
[Ue] rated operational voltage	19.2...26.4 V, 50 Hz AC 20.4...26.4 V, 60 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	12 A, NO (AC-1/DC-1) conforming to IEC 6 A, NC (AC-1/DC-1) conforming to IEC
Minimum switching current	5 mA
Maximum switching voltage	300 V DC 400 V AC
Switching voltage	5 V
Maximum switching capacity	3000 VA (AC) 336 W (DC)
Load current	12 A at 250 V AC 12 A at 28 V DC
Minimum switching capacity	300 mW at 5 mA
Operating rate	<= 600 cycles/hour under load <= 72000 cycles/hour no-load
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	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 U <sub>c</sub> 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
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The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

5000 V AC between coil and contact

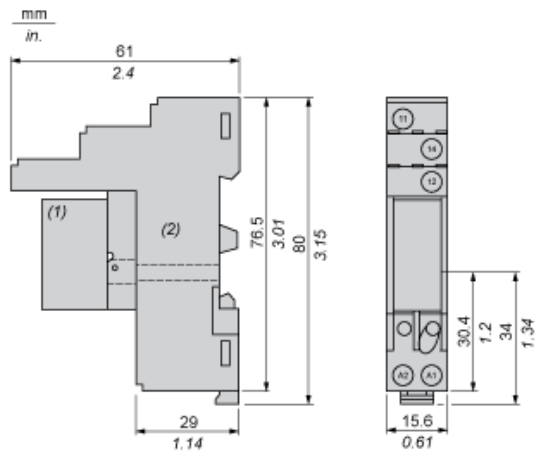
standards	EN/IEC 61810-1 UL 508 CSA C22.2 No 14
product certifications	CSA GOST UL
ambient air temperature for storage	-40...85 °C
vibration resistance	+/- 1 mm (f = 10...55 Hz) conforming to EN/IEC 60068-2-6
IP degree of protection	IP40 conforming to EN/IEC 60529
shock resistance	10 gn for 11 ms not 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...70 °C (AC) -40...85 °C (DC)

### Contractual warranty

Warranty period	18 months
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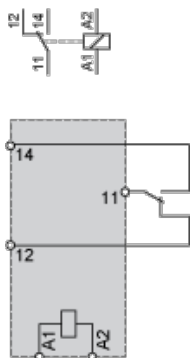
### Dimensions

#### Relay Complete with Socket



- (1) Relays
- (2) Socket

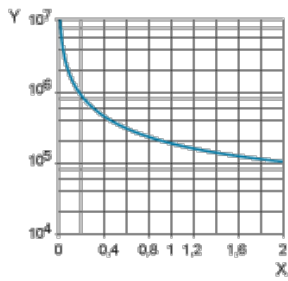
### Wiring Diagram



### Electrical Durability of Contacts

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

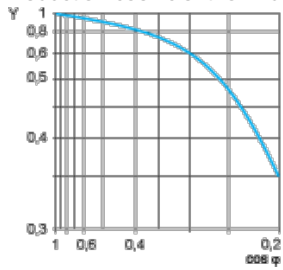
Resistive AC load



X Switching capacity (kVA)

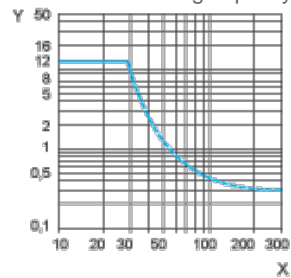
Y Durability (Number of operating cycles)

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.