



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

### Complementary

Shape of pin	Flat
Average coil resistance	1550 Ohm (AC) at 20 °C +/- 15 %
[Ue] rated operational voltage	38.4...57.6 V, 50 Hz AC 40.8...57.6 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
Minimum switching voltage	5 V
Maximum switching capacity	3000 VA (AC) 336 W (DC)
Resistive rated load	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

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	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 5000 V AC between coil and contact
Standards	EN/IEC 61810-1 CSA C22.2 No 14 UL 508
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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## RSB1A120E7S is replaced by the following group of products:

	<p><b>Electromechanical relay RSB1A120ED</b></p> <p>interface plug-in relay - Zelio RSB - 1 C/O - 48 V DC - 12 A</p> <p>Qty 1</p>
	<p><b>Electromechanical relay RSZE1S35M</b></p> <p>socket RSZ - separate contact - &lt; 250 V AC - screw connector</p> <p>Qty 1</p>

Reason for Substitution: End of life | Substitution date: 01 December 2009

Or RSB1A120E7S is replaced by:

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Electromechanical relay RSB1A120E7

interface plug-in relay - Zelio RSB - 1 C/O - 48 V AC - 12 A

Qty 1

Reason for Substitution: End of life | Substitution date: 01 December 2009

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