



### 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
Contacts operation	Standard
Control circuit voltage	24 V DC
[I <sub>th</sub> ] 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	1440 Ohm (DC) at 20 °C +/- 10 %
[U <sub>e</sub> ] rated operational voltage	19.2...26.4 V DC
[U <sub>i</sub> ] rated insulation voltage	400 V conforming to EN/IEC 60947
[U <sub>imp</sub> ] rated impulse withstand voltage	3.6 kV conforming to IEC 61000-4-5
Contacts material	Silver alloy (Ag/Ni)
[I <sub>e</sub> ] 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	4 ms between coil de-energisation and making of the Off-delay contact 9 ms between coil energisation and making of the On-delay contact
Marking	CE
Average consumption in W	0.45 W DC
Drop-out voltage threshold	>= 0.1 U <sub>c</sub> DC
Safety reliability data	B10d = 100000
Protection category	RT I
Operating position	Any position

## 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 EN/IEC 61810-1 UL 508
Product certifications	CSA UL GOST
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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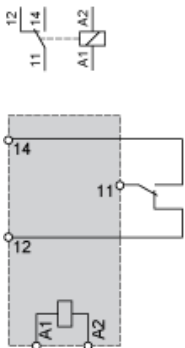
Dimensions

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Relay Complete with Socket

- (1) Relays
- (2) Socket

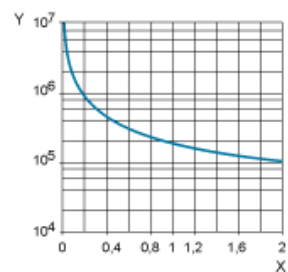
Wiring Diagram



Electrical Durability of Contacts

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

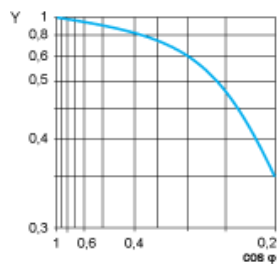
Resistive AC load



X Switching capacity (kVA)

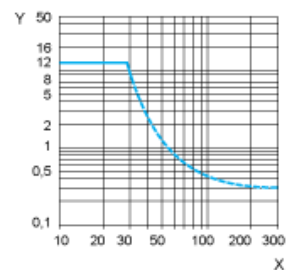
Y Durability (Number of operating cycles)

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.