



### 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	230 V AC
[Ithe] conventional enclosed thermal current	16 A at -40...40 °C
Status LED	Without
Control type	Without push-button
Sale per indivisible quantity	10

### Complementary

Shape of pin	Flat
Average coil resistance	38500 Ohm (AC) at 20 °C +/- 15 %
[Ue] rated operational voltage	195.5...276 V, 60 Hz AC 184...276 V, 50 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	8 A, NC (AC-1/DC-1) conforming to IEC 16 A, NO (AC-1/DC-1) conforming to IEC
Minimum switching current	5 mA
Maximum switching voltage	400 V AC 300 V DC
Minimum switching voltage	5 V
Maximum switching capacity	448 W (DC) 4000 VA (AC)
Resistive rated load	16 A at 28 V DC 16 A at 250 V AC
Minimum switching capacity	300 mW at 5 mA
Operating rate	<= 72000 cycles/hour no-load <= 600 cycles/hour under load
Mechanical durability	30000000 cycles
Electrical durability	100000 cycles (8 A at 250 V, AC-1) NC 100000 cycles (16 A at 250 V, AC-1) NO
Operating time	12 ms between coil energisation and making of the On-delay contact 10 ms between coil de-energisation and making of the Off-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

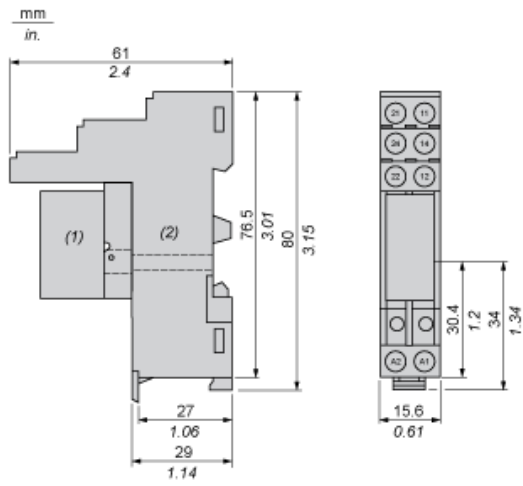
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## Environment

Dielectric strength	5000 V AC between coil and contact 2500 V AC between poles 1000 V AC between contacts
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	5 gn for 11 ms in operation conforming to EN/IEC 60068-2-27 10 gn for 11 ms not operating conforming to EN/IEC 60068-2-27
Ambient air temperature for operation	-40...85 °C (DC) -40...70 °C (AC)

Dimensions

Relay Complete with Socket

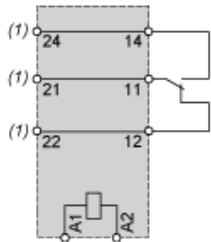
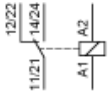


- (1) Relays
- (2) Socket

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Wiring Diagram

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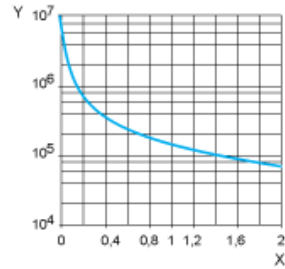


(1) Before wiring please refer to the Instruction sheet

Electrical Durability of Contacts

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

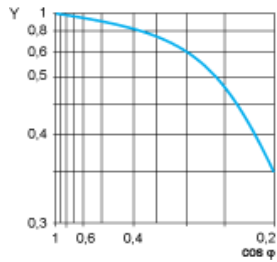
Resistive AC load



X Switching capacity (kVA)

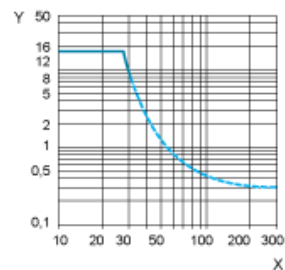
Y Durability (Number of operating cycles)

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.