



### Main

Range of product	Zelio Relay
Series name	Universal
Product or component type	Plug-in relay
Device short name	RUM
Contacts type and composition	2 C/O
Control circuit voltage	230 V AC
[I <sub>th</sub> ] conventional enclosed thermal current	10 A at -40...55 °C
Status LED	Without
Control type	Lockable test button
Utilisation coefficient	20 %

### Complementary

Shape of pin	Cylindrical
[U <sub>i</sub> ] rated insulation voltage	250 V conforming to IEC 300 V conforming to UL 300 V conforming to CSA
[U <sub>imp</sub> ] rated impulse withstand voltage	4 kV
Contacts material	AgNi
[I <sub>e</sub> ] rated operational current	10 A AC-1/DC-1 (NO) conforming to IEC 5 A AC-1/DC-1 (NC) conforming to IEC 12 A at 28 V DC-1 conforming to UL 16 A at 277 V AC-1 conforming to UL
Minimum switching current	10 mA
Maximum switching voltage	250 V AC conforming to IEC 250 V DC conforming to IEC
Minimum switching voltage	17 V
Load current	10 A at 250 V AC 10 A at 28 V DC
Maximum switching capacity	2500 VA, AC circuit

	280 W, DC circuit
Minimum switching capacity	170 mW
Operating rate	<= 18000 cycles/hour no-load <= 1200 cycles/hour under load
Mechanical durability	5000000 cycles
Electrical durability	100000 cycles for resistive load
Average consumption in VA	2...3 at 60 Hz
Drop-out voltage threshold	>= 0.15 U <sub>c</sub> AC
Operating time	20 ms
Average resistance	7200 Ohm at 20 °C +/- 15 %
Rated operational voltage limits	184...253 V AC
Protection category	RT I
Safety reliability data	B10d = 100000
Operating position	Any position
Product weight	0.085 kg

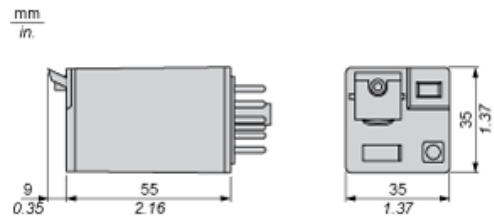
## Environment

Dielectric strength	1500 V AC between contacts 1550 V AC between coil and contact 1550 V AC between poles
Product certifications	CSA GOST UL
Standards	EN/IEC 61810-1 CSA C22.2 No 14 UL 508
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-40...55 °C
Vibration resistance	3 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 10 cycles in operation) conforming to EN/IEC 60068-2-27 4 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 10 cycles not operating) conforming to EN/IEC 60068-2-27
IP degree of protection	IP40 conforming to EN/IEC 60529
Pollution degree	3
Shock resistance	10 gn in operation 10 gn not operating

## Contractual warranty

Warranty period	18 months
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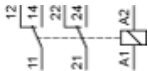
Dimensions



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Wiring Diagram

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Wiring Diagram

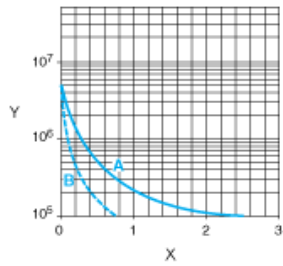
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Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

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

Resistive AC load

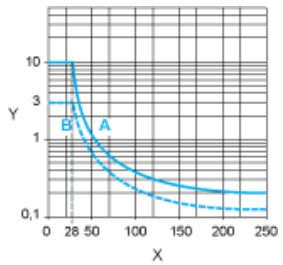


- X Switching capacity (kVA)
- Y Durability (Number of operating cycles)
- A RUMF..., RUMC2..., RUMC3A...
- B RUMC3G...

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
- A RUMF..., RUMC2..., RUMC3A...
- B RUMC3G...

Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

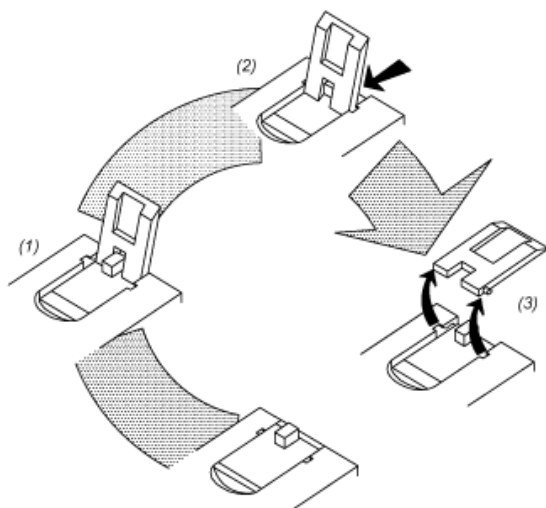
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Technical Description

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Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes.

CAUTION : Please power off power supply before removal of lock down door.



- (1) Lift the lock down door
- (2) Slide it inwards
- (3) Remove it