



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
[Uc] control circuit voltage	12 V DC
[Ithe] conventional enclosed thermal current	10 A at -40...55 °C
Status LED	With
Control type	Lockable test button
Utilisation coefficient	20 %

Complementary

Shape of pin	Flat
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to UL 300 V conforming to CSA
[Uimp] rated impulse withstand voltage	4 kV
Contacts material	AgNi
[Ie] 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

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	5000000 cycles
Electrical durability	100000 cycles for resistive load
Average coil consumption	1.4 W
Drop-out voltage threshold	$\geq 0.1 U_c$ DC
Operating time	20 ms
Average resistance	120 Ohm at 20 °C +/- 10 %
Rated operational voltage limits	9.6...13.2 V DC
Protection category	RT I
Safety reliability data	B10d = 100000
Operating position	Any position
Product weight	0.084 kg

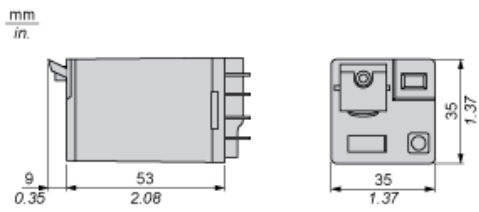
Environment

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 UL 508 CSA C22.2 No 14
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

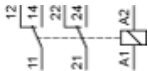
Contractual warranty

Warranty period	18 months
-----------------	-----------

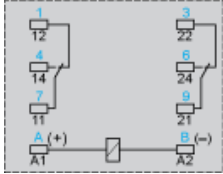
Dimensions



Wiring Diagram



Wiring Diagram

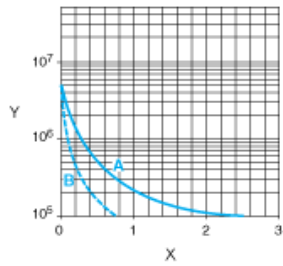


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

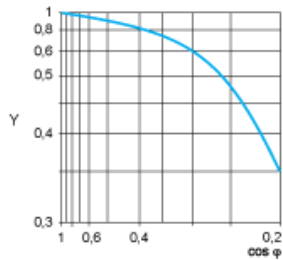
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



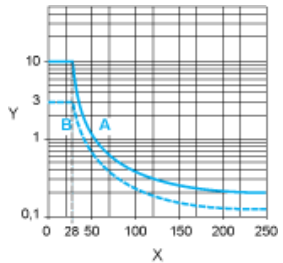
- X Switching capacity (kVA)
- Y Durability (Number of operating cycles)
- A RUMF•••••, RUMC2•••, RUMC3A•••
- B RUMC3G•••

Reduction coefficient for inductive AC load (depending on power factor $\cos \phi$)



- Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load

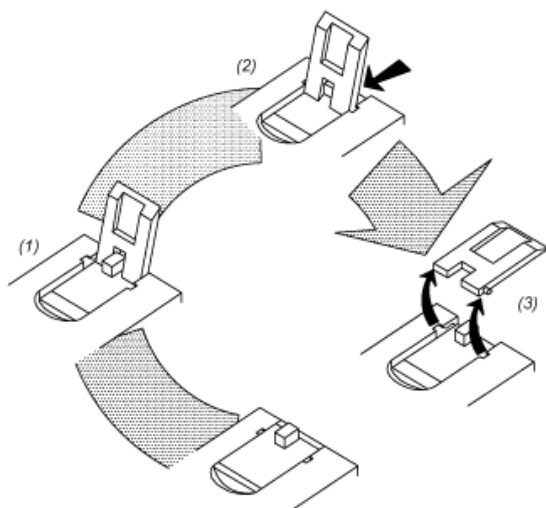


- X Voltage DC
- Y Current DC
- A RUMF•••••, RUMC2•••, RUMC3A•••
- B RUMC3G•••

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

Technical Description

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