



Main

Commercial Status	Commercialised
Range of product	Zelio Relay
Series name	Miniature
Product or component type	Plug-in relay
Device short name	RXM
Contacts type and composition	4 C/O
Control circuit voltage	12 V DC
[Ithe] conventional enclosed thermal current	3 A at -40...55 °C
Status LED	Without
Control type	Pushbutton
Utilisation coefficient	20 %

Complementary

Shape of pin	Flat
[Ui] rated insulation voltage	300 V conforming to UL 300 V conforming to CSA 250 V conforming to IEC
[Uimp] rated impulse withstand voltage	2.5 kV for 1.2/50 µs
Contacts material	Gold plated bifurcated silver
[Ie] rated operational current	3 A at 277 V AC conforming to UL 3 A at 28 V DC conforming to UL 1 A at 250 V AC (NC) conforming to IEC 1 A at 28 V DC (NC) conforming to IEC 2 A at 250 V AC (NO) conforming to IEC 2 A at 28 V DC (NO) conforming to IEC
Maximum switching voltage	250 V conforming to IEC
Resistive rated load	3 A at 28 V DC 3 A at 250 V AC
Maximum switching capacity	750 VA/84 W
Minimum switching capacity	15 mW at 3 mA, 5 V
Operating rate	<= 18000 cycles/hour no-load <= 1200 cycles/hour under load
Mechanical durability	10000000 cycles
Electrical durability	100000 cycles for resistive load depending on mounting position and working environment
Average coil consumption in W	0.9 W
Drop-out voltage threshold	>= 0.1 Uc
Operate time	20 ms
Release time	20 ms
Average coil resistance	160 Ohm at 20 °C +/- 10 %
Rated operational voltage limits	9.6...13.2 V DC
Protection category	RT I
Operating position	Any position
Product weight	0.037 kg

Environment

Dielectric strength	2000 V AC between poles with basic insulation 2000 V AC between coil and contact with reinforced insulation 1300 V AC between contacts with micro disconnection insulation
Product certifications	CE CSA GOST RoHS UL REACH Lloyd's
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	5 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 5 cycles not operating) 3 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 5 cycles in operation)
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	30 gn not operating 10 gn in operation
Pollution degree	2

Technical drawing of the 1000 Series 1/2" component. The drawing shows a side view and a top view. Dimensions are provided in both millimeters (mm) and inches (in.).

Side View Dimensions:

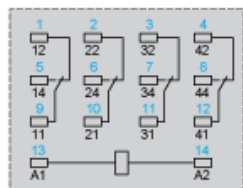
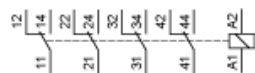
- Overall length: 7.7 mm (0.30 in.)
- Distance from front face to first hole: 40 mm (1.57 in.)
- Distance between first and second hole: 6 mm (0.23 in.)
- Distance from second hole to end: 6.3 mm (0.24 in.)
- Distance from front face to third hole: 16.3 mm (0.64 in.)
- Distance from front face to fourth hole: 24.3 mm (0.96 in.)

Top View Dimensions:

- Overall width: 27 mm (1.06 in.)
- Distance from left side to first hole: 21 mm (0.82 in.)

Technical drawing of a rectangular plate. The drawing shows a top view and a side view. The top view is a rectangle with a width of 4.4 mm (0.17 in) and a height of 13.2 mm (0.51 in). The side view shows a rectangular plate with a height of 2.5 mm (0.9 in). The drawing includes dimension lines and labels for both metric (mm) and imperial (in) units.

Wiring Diagram

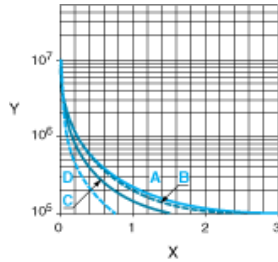


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

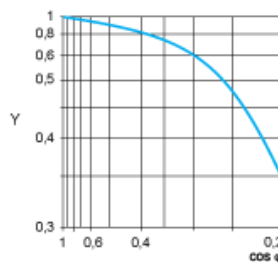
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



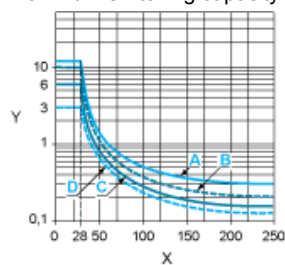
- X Switching capacity (kVA)
Y Durability (Number of operating cycles)
A RXM2AB...
B RXM3AB...
C RXM4AB...
D RXM4GB...

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 RXM2AB...
B RXM3AB...
C RXM4AB...
D RXM4GB...

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