



Main

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	125 V DC
[Ithe] conventional enclosed thermal current	6 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	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	AgNi
[Ie] rated operational current	8 A at 30 V DC conforming to UL 6 A at 277 V AC conforming to UL 6 A at 250 V AC (NO) conforming to IEC 6 A at 28 V DC (NO) conforming to IEC 3 A at 250 V AC (NC) conforming to IEC 3 A at 28 V DC (NC) conforming to IEC
Maximum switching voltage	250 V conforming to IEC
Resistive rated load	6 A at 28 V DC 6 A at 250 V AC
Maximum switching capacity	1500 VA/168 W
Minimum switching capacity	170 mW at 10 mA, 17 V
Operating rate	<= 18000 cycles/hour no-load <= 1200 cycles/hour under load
Mechanical durability	10000000 cycles
Electrical durability	100000 cycles for resistive load
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	17360 Ohm at 20 °C +/- 10 %
Rated operational voltage limits	100...138 V DC
Safety reliability data	B10d = 100000
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:

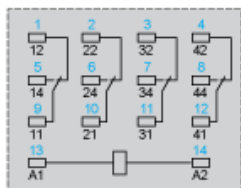
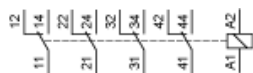
- Overall width: 7.7 mm (0.30 in.)
- Distance from left edge to first vertical slot: 40 mm (1.57 in.)
- Distance from first vertical slot to second vertical slot: 6 mm (0.23 in.)
- Distance from second vertical slot to right edge: 6.3 mm (0.24 in.)
- Distance from top edge to first horizontal slot: 6.3 mm (0.24 in.)
- Distance from first horizontal slot to second horizontal slot: 6.3 mm (0.24 in.)
- Distance from second horizontal slot to top edge: 6.3 mm (0.24 in.)

Top View Dimensions:

- Overall width: 27 mm (1.06 in.)
- Overall length: 21 mm (0.82 in.)

Technical drawing of a rectangular plate. The drawing shows a rectangular plate with a central rectangular area. The overall width is 44 mm (1.7 in.) and the overall height is 13.2 mm (0.51 in.). The central area has a width of 4.4 mm (0.17 in.) and a height of 2.5 mm (0.09 in.). The distance from the center of the central area to the left and right edges is 2.5 mm (0.09 in.). The distance from the center of the central area to the top and bottom edges is 4.4 mm (0.17 in.). The drawing includes dimension lines and arrows indicating the measurements.

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.