



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	24 V DC
[Ithe] conventional enclosed thermal current	6 A at -40...55 °C
Status LED	Without
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	650 Ohm at 20 °C +/- 10 %
Rated operational voltage limits	19.2...26.4 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:

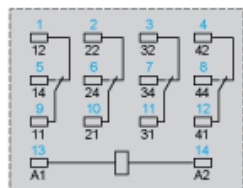
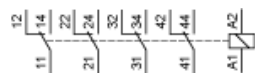
- Overall length: 7.7 mm (0.30 in.)
- Distance from front face to first hole: 40 mm (1.57 in.)
- Distance between first and second hole: 6 mm (0.23 in.)
- Distance between second and third hole: 6.3 mm (0.24 in.)
- Distance between third and fourth hole: 6.3 mm (0.24 in.)
- Distance between fourth and fifth hole: 6.3 mm (0.24 in.)
- Distance between fifth and sixth hole: 6.3 mm (0.24 in.)
- Distance between sixth and seventh hole: 6.3 mm (0.24 in.)
- Distance between seventh and eighth hole: 6.3 mm (0.24 in.)
- Distance between eighth and ninth hole: 6.3 mm (0.24 in.)
- Distance between ninth and tenth hole: 6.3 mm (0.24 in.)
- Distance between tenth and eleventh hole: 6.3 mm (0.24 in.)
- Distance between eleventh and twelfth hole: 6.3 mm (0.24 in.)
- Distance between twelfth and thirteenth hole: 6.3 mm (0.24 in.)
- Distance between thirteenth and fourteenth hole: 6.3 mm (0.24 in.)
- Distance between fourteenth and fifteenth hole: 6.3 mm (0.24 in.)
- Distance between fifteenth and sixteenth hole: 6.3 mm (0.24 in.)
- Distance between sixteenth and seventeenth hole: 6.3 mm (0.24 in.)
- Distance between seventeenth and eighteenth hole: 6.3 mm (0.24 in.)
- Distance between eighteenth and nineteenth hole: 6.3 mm (0.24 in.)
- Distance between nineteenth and twentieth hole: 6.3 mm (0.24 in.)
- Distance between twentieth and twenty-first hole: 6.3 mm (0.24 in.)
- Distance between twenty-first and twenty-second hole: 6.3 mm (0.24 in.)
- Distance between twenty-second and twenty-third hole: 6.3 mm (0.24 in.)
- Distance between twenty-third and twenty-fourth hole: 6.3 mm (0.24 in.)
- Distance between twenty-fourth and twenty-fifth hole: 6.3 mm (0.24 in.)
- Distance between twenty-fifth and twenty-sixth hole: 6.3 mm (0.24 in.)
- Distance between twenty-sixth and twenty-seventh hole: 6.3 mm (0.24 in.)
- Distance between twenty-seventh and twenty-eighth hole: 6.3 mm (0.24 in.)
- Distance between twenty-eighth and twenty-ninth hole: 6.3 mm (0.24 in.)
- Distance between twenty-ninth and thirtieth hole: 6.3 mm (0.24 in.)
- Distance between thirtieth and thirty-first hole: 6.3 mm (0.24 in.)
- Distance between thirty-first and thirty-second hole: 6.3 mm (0.24 in.)
- Distance between thirty-second and thirty-third hole: 6.3 mm (0.24 in.)
- Distance between thirty-third and thirty-fourth hole: 6.3 mm (0.24 in.)
- Distance between thirty-fourth and thirty-fifth hole: 6.3 mm (0.24 in.)
- Distance between thirty-fifth and thirty-sixth hole: 6.3 mm (0.24 in.)
- Distance between thirty-sixth and thirty-seventh hole: 6.3 mm (0.24 in.)
- Distance between thirty-seventh and thirty-eighth hole: 6.3 mm (0.24 in.)
- Distance between thirty-eighth and thirty-ninth hole: 6.3 mm (0.24 in.)
- Distance between thirty-ninth and fortieth hole: 6.3 mm (0.24 in.)
- Distance between fortieth and forty-first hole: 6.3 mm (0.24 in.)
- Distance between forty-first and forty-second hole: 6.3 mm (0.24 in.)
- Distance between forty-second and forty-third hole: 6.3 mm (0.24 in.)
- Distance between forty-third and forty-fourth hole: 6.3 mm (0.24 in.)
- Distance between forty-fourth and forty-fifth hole: 6.3 mm (0.24 in.)
- Distance between forty-fifth and forty-sixth hole: 6.3 mm (0.24 in.)
- Distance between forty-sixth and forty-seventh hole: 6.3 mm (0.24 in.)
- Distance between forty-seventh and forty-eighth hole: 6.3 mm (0.24 in.)
- Distance between forty-eighth and forty-ninth hole: 6.3 mm (0.24 in.)
- Distance between forty-ninth and fiftieth hole: 6.3 mm (0.24 in.)
- Distance between fiftieth and fifty-first hole: 6.3 mm (0.24 in.)
- Distance between fifty-first and fifty-second hole: 6.3 mm (0.24 in.)
- Distance between fifty-second and fifty-third hole: 6.3 mm (0.24 in.)
- Distance between fifty-third and fifty-fourth hole: 6.3 mm (0.24 in.)
- Distance between fifty-fourth and fifty-fifth hole: 6.3 mm (0.24 in.)
- Distance between fifty-fifth and fifty-sixth hole: 6.3 mm (0.24 in.)
- Distance between fifty-sixth and fifty-seventh hole: 6.3 mm (0.24 in.)
- Distance between fifty-seventh and fifty-eighth hole: 6.3 mm (0.24 in.)
- Distance between fifty-eighth and fifty-ninth hole: 6.3 mm (0.24 in.)
- Distance between fifty-ninth and sixtieth hole: 6.3 mm (0.24 in.)
- Distance between sixtieth and sixty-first hole: 6.3 mm (0.24 in.)
- Distance between sixty-first and sixty-second hole: 6.3 mm (0.24 in.)
- Distance between sixty-second and sixty-third hole: 6.3 mm (0.24 in.)
- Distance between sixty-third and sixty-fourth hole: 6.3 mm (0.24 in.)
- Distance between sixty-fourth and sixty-fifth hole: 6.3 mm (0.24 in.)
- Distance between sixty-fifth and sixty-sixth hole: 6.3 mm (0.24 in.)
- Distance between sixty-sixth and sixty-seventh hole: 6.3 mm (0.24 in.)
- Distance between sixty-seventh and sixty-eighth hole: 6.3 mm (0.24 in.)
- Distance between sixty-eighth and sixty-ninth hole: 6.3 mm (0.24 in.)
- Distance between sixty-ninth and seventieth hole: 6.3 mm (0.24 in.)
- Distance between seventieth and seventy-first hole: 6.3 mm (0.24 in.)
- Distance between seventy-first and seventy-second hole: 6.3 mm (0.24 in.)
- Distance between seventy-second and seventy-third hole: 6.3 mm (0.24 in.)
- Distance between seventy-third and seventy-fourth hole: 6.3 mm (0.24 in.)
- Distance between seventy-fourth and seventy-fifth hole: 6.3 mm (0.24 in.)
- Distance between seventy-fifth and seventy-sixth hole: 6.3 mm (0.24 in.)
- Distance between seventy-sixth and seventy-seventh hole: 6.3 mm (0.24 in.)
- Distance between seventy-seventh and seventy-eighth hole: 6.3 mm (0.24 in.)
- Distance between seventy-eighth and seventy-ninth hole: 6.3 mm (0.24 in.)
- Distance between seventy-ninth and eightieth hole: 6.3 mm (0.24 in.)
- Distance between eightieth and eighty-first hole: 6.3 mm (0.24 in.)
- Distance between eighty-first and eighty-second hole: 6.3 mm (0.24 in.)
- Distance between eighty-second and eighty-third hole: 6.3 mm (0.24 in.)
- Distance between eighty-third and eighty-fourth hole: 6.3 mm (0.24 in.)
- Distance between eighty-fourth and eighty-fifth hole: 6.3 mm (0.24 in.)
- Distance between eighty-fifth and eighty-sixth hole: 6.3 mm (0.24 in.)
- Distance between eighty-sixth and eighty-seventh hole: 6.3 mm (0.24 in.)
- Distance between eighty-seventh and eighty-eighth hole: 6.3 mm (0.24 in.)
- Distance between eighty-eighth and eighty-ninth hole: 6.3 mm (0.24 in.)
- Distance between eighty-ninth and ninetieth hole: 6.3 mm (0.24 in.)
- Distance between ninetieth and one hundred hole: 6.3 mm (0.24 in.)

Top View Dimensions:

- Overall width: 21 mm (0.82 in.)
- Overall height: 27 mm (1.06 in.)
- Distance from front face to first hole: 18 mm (0.71 in.)
- Distance from front face to second hole: 18 mm (0.71 in.)
- Distance from front face to third hole: 18 mm (0.71 in.)
- Distance from front face to fourth hole: 18 mm (0.71 in.)
- Distance from front face to fifth hole: 18 mm (0.71 in.)
- Distance from front face to sixth hole: 18 mm (0.71 in.)
- Distance from front face to seventh hole: 18 mm (0.71 in.)
- Distance from front face to eighth hole: 18 mm (0.71 in.)
- Distance from front face to ninth hole: 18 mm (0.71 in.)
- Distance from front face to tenth hole: 18 mm (0.71 in.)
- Distance from front face to eleventh hole: 18 mm (0.71 in.)
- Distance from front face to twelfth hole: 18 mm (0.71 in.)
- Distance from front face to thirteenth hole: 18 mm (0.71 in.)
- Distance from front face to fourteenth hole: 18 mm (0.71 in.)
- Distance from front face to fifteenth hole: 18 mm (0.71 in.)
- Distance from front face to sixteenth hole: 18 mm (0.71 in.)
- Distance from front face to seventeenth hole: 18 mm (0.71 in.)
- Distance from front face to eighteenth hole: 18 mm (0.71 in.)
- Distance from front face to nineteenth hole: 18 mm (0.71 in.)
- Distance from front face to twentieth hole: 18 mm (0.71 in.)
- Distance from front face to twenty-first hole: 18 mm (0.71 in.)
- Distance from front face to twenty-second hole: 18 mm (0.71 in.)
- Distance from front face to twenty-third hole: 18 mm (0.71 in.)
- Distance from front face to twenty-fourth hole: 18 mm (0.71 in.)
- Distance from front face to twenty-fifth hole: 18 mm (0.71 in.)
- Distance from front face to twenty-sixth hole: 18 mm (0.71 in.)
- Distance from front face to twenty-seventh hole: 18 mm (0.71 in.)
- Distance from front face to twenty-eighth hole: 18 mm (0.71 in.)
- Distance from front face to twenty-ninth hole: 18 mm (0.71 in.)
- Distance from front face to thirtieth hole: 18 mm (0.71 in.)
- Distance from front face to thirty-first hole: 18 mm (0.71 in.)
- Distance from front face to thirty-second hole: 18 mm (0.71 in.)
- Distance from front face to thirty-third hole: 18 mm (0.71 in.)
- Distance from front face to thirty-fourth hole: 18 mm (0.71 in.)
- Distance from front face to thirty-fifth hole: 18 mm (0.71 in.)
- Distance from front face to thirty-sixth hole: 18 mm (0.71 in.)
- Distance from front face to thirty-seventh hole: 18 mm (0.71 in.)
- Distance from front face to thirty-eighth hole: 18 mm (0.71 in.)
- Distance from front face to thirty-ninth hole: 18 mm (0.71 in.)
- Distance from front face to fortieth hole: 18 mm (0.71 in.)
- Distance from front face to forty-first hole: 18 mm (0.71 in.)
- Distance from front face to forty-second hole: 18 mm (0.71 in.)
- Distance from front face to forty-third hole: 18 mm (0.71 in.)
- Distance from front face to forty-fourth hole: 18 mm (0.71 in.)
- Distance from front face to forty-fifth hole: 18 mm (0.71 in.)
- Distance from front face to forty-sixth hole: 18 mm (0.71 in.)
- Distance from front face to forty-seventh hole: 18 mm (0.71 in.)
- Distance from front face to forty-eighth hole: 18 mm (0.71 in.)
- Distance from front face to forty-ninth hole: 18 mm (0.71 in.)
- Distance from front face to fiftieth hole: 18 mm (0.71 in.)
- Distance from front face to fifty-first hole: 18 mm (0.71 in.)
- Distance from front face to fifty-second hole: 18 mm (0.71 in.)
- Distance from front face to fifty-third hole: 18 mm (0.7

Technical drawing of a rectangular plate with dimensions in mm and in. The plate has a width of 44 mm (1.7 in) and a height of 13.2 mm (0.51 in). There are three vertical slots, each 4.4 mm (0.17 in) wide, spaced 2.5 mm (0.09 in) apart. The distance from the left edge to the first slot is 2.5 mm (0.09 in), and from the last slot to the right edge is 2.5 mm (0.09 in). The distance between the centers of the slots is 4.4 mm (0.17 in). The total width of the plate is 44 mm (1.7 in). The total height of the plate is 13.2 mm (0.51 in).

Wiring Diagram

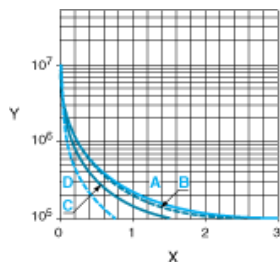


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

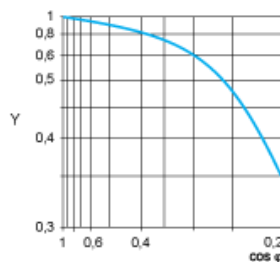
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



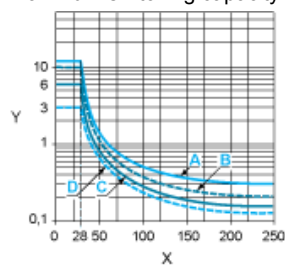
- X Switching capacity (kVA)
Y Durability (Number of operating cycles)
A RXM2AB...
B RXM3AB...
C RXM4AB...
D RXM4GB...

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.