



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	3 C/O
Control circuit voltage	48 V DC
[Ithe] conventional enclosed thermal current	10 A at -40...55 °C
Status LED	With
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	4 kV for 1.2/50 µs
Contacts material	AgNi
[Ie] rated operational current	10 A at 277 V AC conforming to UL 10 A at 30 V DC conforming to UL 5 A at 250 V AC (NC) conforming to IEC 5 A at 28 V DC (NC) conforming to IEC 10 A at 250 V AC (NO) conforming to IEC 10 A at 28 V DC (NO) conforming to IEC
Maximum switching voltage	250 V conforming to IEC
Resistive rated load	10 A at 28 V DC 10 A at 250 V AC
Maximum switching capacity	2500 VA/280 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	2560 Ohm at 20 °C +/- 10 %
Rated operational voltage limits	38.4...52.8 V DC
Protection category	RT I
Operating position	Any position
Product weight	0.037 kg

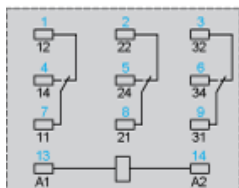
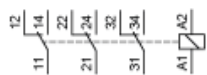
Environment

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

The technical drawing shows two views of the M8000-1000 module. The left view is a side profile showing a width of 7.7 mm (0.30 in.) for the mounting bracket, a main body width of 40 mm (1.57 in.), and a rear flange width of 6 mm (0.23 in.). The right view is a top-down perspective showing a total length of 63 mm (2.48 in.), with segments of 6 mm (0.24 in.), 3 mm (0.12 in.), and 54 mm (2.13 in.). It also shows a height of 27 mm (1.06 in.) and a base width of 21 mm (0.82 in.).

Technical drawing of a rectangular plate. The drawing shows a rectangle with dimensions 6.6 mm (0.25 in.) for the width and 13.2 mm (0.51 in.) for the length. There are four holes arranged in a 2x2 grid. The distance between the centers of the holes is 2.5 mm (0.9 in.) horizontally and 2.5 mm (0.9 in.) vertically. The distance from the center of the holes to the nearest edge is 6.6 mm (0.25 in.) horizontally and 6.6 mm (0.25 in.) vertically.

Wiring Diagram

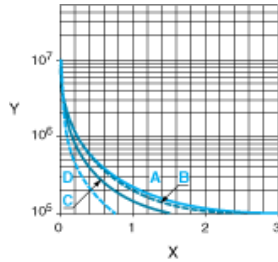


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

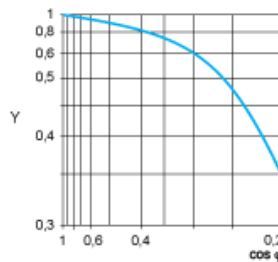
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



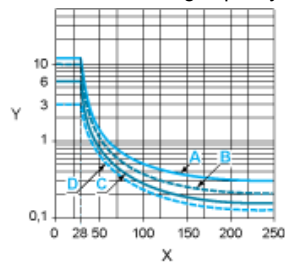
- X Switching capacity (kVA)
Y Durability (Number of operating cycles)
A RXM2AB...
B RXM3AB...
C RXM4AB...
D RXM4GB...

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.