



Main

Range of product	Zelio Relay
Series name	Miniature
Product or component type	Plug-in relay
Device short name	RXM
Contacts type and composition	2 C/O
Control circuit voltage	24 V AC, 50/60 Hz
[Ithe] conventional enclosed thermal current	12 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	4 kV for 1.2/50 µs
Contacts material	AgNi
[Ie] rated operational current	12 A at 277 V AC conforming to UL 12 A at 28 V DC conforming to UL 6 A at 250 V AC (NC) conforming to IEC 6 A at 28 V DC (NC) conforming to IEC 12 A at 250 V AC (NO) conforming to IEC 12 A at 28 V DC (NO) conforming to IEC
Maximum switching voltage	250 V conforming to IEC
Resistive rated load	12 A at 28 V DC 12 A at 250 V AC
Maximum switching capacity	3000 VA/336 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 VA	1.2 at 60 Hz
Drop-out voltage threshold	>= 0.15 Uc
Operate time	20 ms
Release time	20 ms
Average coil resistance	180 Ohm at 20 °C +/- 15 %
Rated operational voltage limits	19.2...26.4 V AC
Safety reliability data	B10d = 100000
Protection category	RT I
Operating position	Any position
Product weight	0.037 kg

Environment

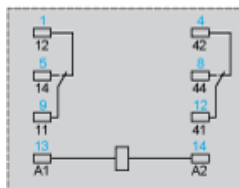
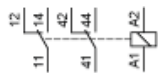
Dielectric strength	2000 V AC between poles with basic insulation 2000 V AC between coil and contact with reinforced insulation 1300 V AC between contacts with micro disconnection insulation
Product certifications	CE CSA GOST RoHS UL REACH Lloyd's
Standards	EN/IEC 61810-1 UL 508 CSA C22.2 No 14
Ambient 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	3

The technical drawing shows two views of the power supply unit:

- Front View (Left):** Shows the main body with three vertical slots. Dimensions include a top width of 7.7 mm (0.30 in.), a central slot width of 40 mm (1.57 in.), and a bottom width of 6 mm (0.23 in.). The total height is 63 mm (2.48 in.). There are four mounting holes along the right edge.
- Side View (Right):** Shows the profile of the unit. It has a base width of 21 mm (0.82 in.) and a total height of 27 mm (1.06 in.). A small rectangular feature is visible on the top surface.

Technical drawing of a rectangular plate with two vertical rows of four holes each. The plate has a width of 13.2 mm and a height of 0.51 mm. The distance between the two rows of holes is 2.5 mm. The distance from the center of each row of holes to the nearest edge is 0.09 mm.

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.