

RXM4AB2F7

Miniature Plug-in relay - Zelio RXM 4 C/O 120 V AC 6 A with LED



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	120 V AC, 50/60 Hz
[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 VA	1.2 at 60 Hz
Drop-out voltage threshold	>= 0.15 Uc
Operate time	20 ms
Release time	20 ms
Average coil resistance	3630 Ohm at 20 °C +/- 15 %
Rated operational voltage limits	96...132 V AC
Safety reliability data	B10d = 100000
Protection category	RT I
Operating position	Any position
Product weight	0.037 kg

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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 pin: 40 mm (1.57 in.)
- Distance between pins: 6 mm (0.23 in.)
- Pin diameter: 6.3 mm (0.24 in.)
- Pin spacing: 6.3 mm (0.24 in.)
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Top View Dimensions:

- Overall width: 27 mm (1.06 in.)
- Distance from front face to first pin: 21 mm (0.82 in.)
- Pin diameter: 6.3 mm (0.24 in.)
- Pin spacing: 6.3 mm (0.24 in.)
- Pin diameter: 6.3 mm (0.24 in.)
- Pin spacing: 6.3 mm (0.24 in.)
- Pin diameter: 6.3 mm (0.24 in.)
- Pin spacing: 6.3 mm (0.24 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.