

RXM3AB1B7

miniature plug-in relay - Zelio RXM - 3 C/O - 24 V AC - 10 A



Main

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
Contacts operation	Standard
Control circuit voltage	24 V AC
[the] conventional enclosed thermal current	10 A at -40...55 °C
Status LED	Without
Control type	Pushbutton
Coil interference suppression	Without
Utilisation coefficient	20 %
Sale per indivisible quantity	10

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 1.2/50 µs IEC 61000-4-5
Contacts material	Silver alloy (Ag/Ni)
[Ie] rated operational current	5 A (AC-1/DC-1) NC conforming to IEC 10 A (AC-1/DC-1) NO conforming to IEC 10 A (AC-1/DC-1) conforming to UL
Minimum switching current	10 mA
Maximum switching voltage	250 V DC 250 V AC conforming to IEC
Minimum switching voltage	17 V
Resistive rated load	10 A at 28 V DC 10 A at 250 V AC
Maximum switching capacity	280 W, DC circuit 2500 VA, AC circuit
Minimum switching capacity	170 mW
Operating rate	<= 18000 cycles/hour no-load <= 1200 cycles/hour under load
Mechanical durability	10000000 cycles
Electrical durability	100000 cycles for resistive load
Average consumption in VA	1.2 AC 60 Hz
Drop-out voltage threshold	>= 0.15 U _c AC
Operating time	20 ms between coil energisation and making of the On-delay contact 20 ms between coil de-energisation and making of the Off-delay contact
Average resistance	180 Ohm, AC circuit at 20 °C +/- 15 %
Rated operational voltage limits	19.2...26.4 V AC
Protection category	RT I
Operating position	Any position
CAD overall width	21 mm

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CAD overall height	27 mm
CAD overall depth	55 mm
Product weight	0.037 kg

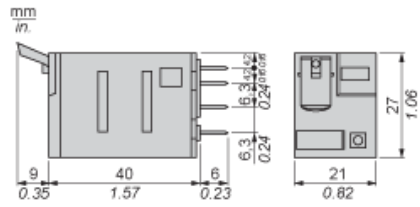
Environment

Dielectric strength	2000 V AC (between poles) 2000 V AC (between coil and contact) 1300 V AC (between contacts)
Product certifications	CSA GOST Lloyds UL
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 10 cycles not operating) conforming to EN/IEC 60068-2-27 3 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 10 cycles in operation) conforming to EN/IEC 60068-2-27
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	30 gn for 11 ms not operating conforming to EN/IEC 60068-2-27 10 gn for 11 ms in operation conforming to EN/IEC 60068-2-27

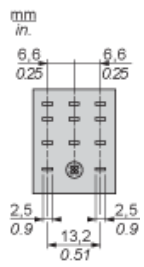
Contractual warranty

Period	18 months
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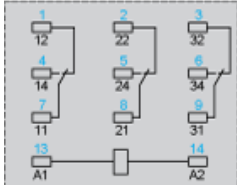
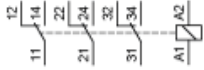
Dimensions



Pin Side View



Wiring Diagram

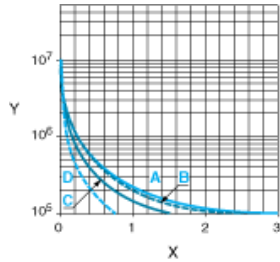


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

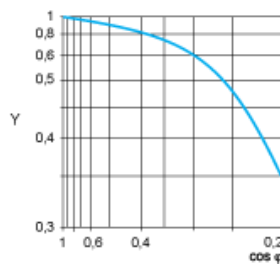
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



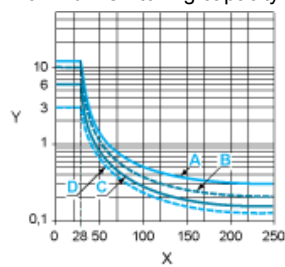
- X Switching capacity (kVA)
- Y Durability (Number of operating cycles)
- A RXM2AB...
- B RXM3AB...
- C RXM4AB...
- D RXM4GB...

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.