

Main

Range of product	Zelio Relay
Series name	Miniature
Product or component type	Plug-in relay
Device short name	RXM
Contacts operation	Standard
Control circuit voltage	24 V DC
[I <sub>the</sub> ] conventional enclosed thermal current	12 A at <= 55 °C
Status LED	Without
Control type	Pushbutton
Coil interference suppression	Without
Utilisation coefficient	20 %
Sale per indivisible quantity	10

Complementary

[U <sub>i</sub> ] rated insulation voltage	250 V conforming to IEC 300 V conforming to CSA 300 V conforming to UL
[U <sub>imp</sub> ] rated impulse withstand voltage	4 kV conforming to IEC 61000-4-5
Contacts material	Silver alloy (Ag/Ni)
[I <sub>e</sub> ] rated operational current	12 A (AC-1/DC-1) conforming to UL 12 A (AC-1/DC-1) NO conforming to IEC 6 A (AC-1/DC-1) NC conforming to IEC
Minimum switching current	10 mA
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	17 V
Resistive rated load	12 A at 250 V AC 12 A at 28 V DC
Maximum switching capacity	3000 VA, AC circuit 336 W, DC circuit
Minimum switching capacity	170 mW
Operating rate	<= 20 cyc/mn (under load) <= 300 cyc/mn (no-load)
Mechanical durability	10000000 cycles
Electrical durability	100000 cycles for resistive load
Average consumption in W	0.9 W, DC circuit
Average consumption in VA	1.2, AC circuit
Drop-out voltage threshold	>= 0.1 U <sub>c</sub> (DC) >= 0.15 U <sub>c</sub> (AC)
Operating time	20 ms between coil de-energisation and making of the Off-delay contact (AC/DC) 20 ms between coil energisation and making of the On-delay contact (AC/DC)
Average resistance	650 Ohm, DC circuit at 20 °C +/- 10 %
Rated operational voltage limits	19.2...26.4 V DC
Protection category	RT I
Operating position	Any position
CAD overall width	21 mm
CAD overall height	27 mm

CAD overall depth	55 mm
Product weight	0.037 kg

## Environment

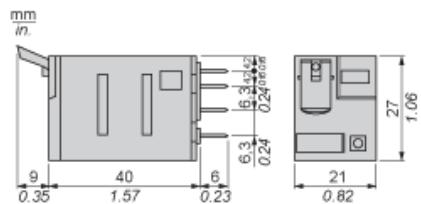
Dielectric strength	1500 V AC (between contacts) 1550 V AC (between coil and contact) 1550 V AC (between poles)
Product certifications	CSA UL
Standards	CSA C22-2 No 14 EN/IEC 61810-1 (iss. 2) UL 508
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-40...55 °C
Vibration resistance	3 gn (f = 10...150 Hz), amplitude +/- 1 mm (on opening) conforming to EN/IEC 60068-2-27 5 gn (f = 10...150 Hz), amplitude +/- 1 mm (on closing) conforming to EN/IEC 60068-2-27
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	15 gn on closing conforming to EN/IEC 60068-2-27 15 gn on opening conforming to EN/IEC 60068-2-27
RoHS EUR status	Compliant
RoHS EUR conformity date	0801

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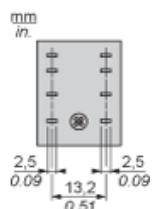
Miniature Relay

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Dimensions



Pin Side View

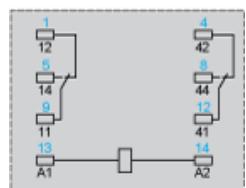
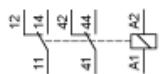


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Miniature Relay

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Wiring Diagram



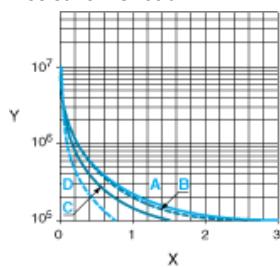
Symbols shown in blue correspond to Nema marking.

RXM Miniature Relays

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)

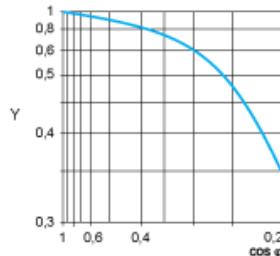
A RXM2AB...

B RXM3AB...

C RXM4AB...

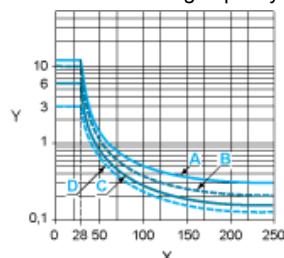
D RXM4GB...

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...