

# RXM2AB2E7

miniature plug-in relay - Zelio RXM - 2 C/O - 48 V AC - 12 A - with LED



## 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	48 V AC
[Ithe] conventional enclosed thermal current	12 A at $\leq 55\text{ }^{\circ}\text{C}$
Status LED	With
Control type	Pushbutton
Coil interference suppression	Without
Utilisation coefficient	20 %
Sale per indivisible quantity	10

## Complementary

[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 conforming to IEC 61000-4-5
Contacts material	Silver alloy (Ag/Ni)
[Ie] rated operational current	6 A (AC-1/DC-1) NC conforming to IEC 12 A (AC-1/DC-1) NO conforming to IEC 12 A (AC-1/DC-1) conforming to UL
Minimum switching current	10 mA
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	17 V
Resistive rated load	12 A at 28 V DC 12 A at 250 V AC
Maximum switching capacity	336 W, DC circuit 3000 VA, AC circuit
Minimum switching capacity	170 mW
Operating rate	$\leq 300$ cyc/mn (no-load) $\leq 20$ cyc/mn (under load)
Mechanical durability	10000000 cycles
Electrical durability	100000 cycles for resistive load
Average consumption in W	1.1 W, DC circuit
Average consumption in VA	1.2, AC circuit
Drop-out voltage threshold	$\geq 0.15$ Uc (AC) $\geq 0.1$ Uc DC
Operating time	20 ms between coil energisation and making of the On-delay contact (AC/DC) 20 ms between coil de-energisation and making of the Off-delay contact (AC/DC)
Average resistance	770 Ohm, AC circuit at $20\text{ }^{\circ}\text{C} \pm 15\%$
Rated operational voltage limits	38.4...52.8 V AC
Protection category	RT I
Operating position	Any position
CAD overall width	21 mm
CAD overall height	27 mm

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

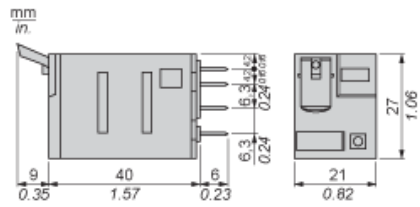
CAD overall depth	55 mm
Product weight	0.037 kg

## Environment

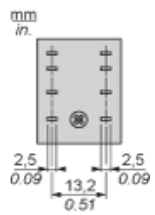
Dielectric strength	1550 V AC (between poles) 1550 V AC (between coil and contact) 1500 V AC (between contacts)
Product certifications	CSA UL
Standards	CSA C22-2 No 14 EN/IEC 61810-1 (iss. 2) UL 508
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-40...55 °C
Vibration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

Miniature Relay

Dimensions

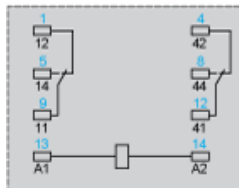
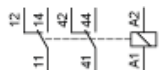


Pin Side View



## Miniature Relay

### Wiring Diagram



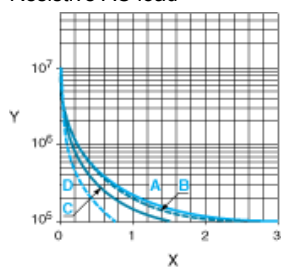
Symbols shown in blue correspond to Nema marking.

RXM Miniature Relays

Electrical Durability of Contacts

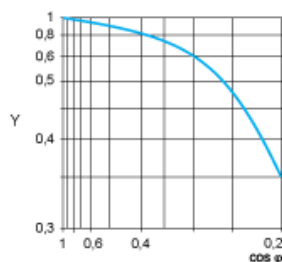
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



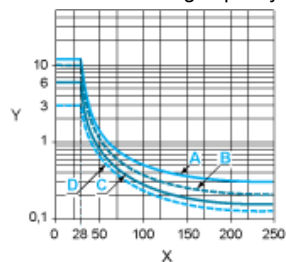
- X Switching capacity (kVA)
- Y Durability (Number of operating cycles)
- A RXM2AB...
- B RXM3AB...
- C RXM4AB...
- D RXM4GB...

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...