

# RXM2AB3BD

Miniature Plug-in relay - Zelio RXM 2 C/O 24 V DC  
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 type and composition	2 C/O
[Uc] control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	12 A at -40...55 °C
Status LED	With
Control type	Without lockable test button
Utilisation coefficient	20 %

## Complementary

Shape of pin	Flat
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to UL 300 V conforming to CSA
[Uimp] rated impulse withstand voltage	4 kV for 1.2/50 µs
Contacts material	AgNi
[Ie] rated operational current	12 A at 28 V DC (NO) conforming to IEC 12 A at 250 V AC (NO) conforming to IEC 6 A at 28 V DC (NC) conforming to IEC 6 A at 250 V AC (NC) conforming to IEC 12 A at 28 V DC conforming to UL 12 A at 277 V AC conforming to UL
Maximum switching voltage	250 V conforming to IEC
Load current	12 A at 250 V AC 12 A at 28 V DC
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	0.9 W
Drop-out voltage threshold	>= 0.1 Uc
Operating time	20 ms
Reset time	20 ms
Average resistance	650 Ohm at 20 °C +/- 10 %
Rated operational voltage limits	19.2...26.4 V DC
Safety reliability data	B10d = 100000
Protection category	RT I
Operating position	Any position
CAD overall height	82.8 mm
CAD overall depth	80.35 mm
Product weight	0.096 kg
Device presentation	Complete product

## Environment

dielectric strength	1300 V AC between contacts with micro disconnection insulation
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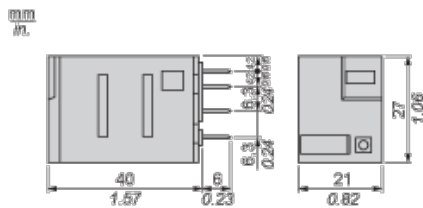
2000 V AC between coil and contact with reinforced insulation  
 2000 V AC between poles with basic insulation

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	3 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 5 cycles in operation) 5 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 5 cycles not operating)
IP degree of protection	IP40 conforming to EN/IEC 60529
shock resistance	10 gn in operation 30 gn not operating
pollution degree	3

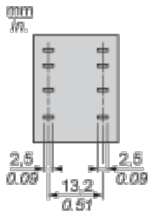
### Contractual warranty

Warranty period	18 months
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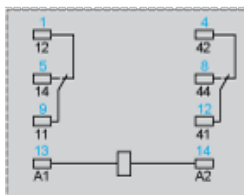
### Dimensions



Pin Side View



### Wiring Diagram

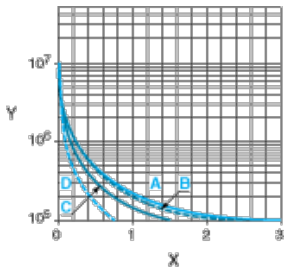


Symbols shown in blue correspond to Nema marking.

### Electrical Durability of Contacts

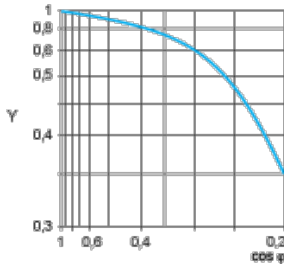
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



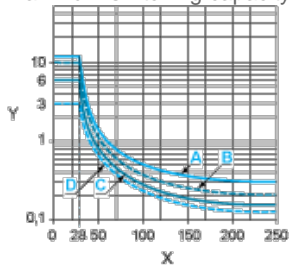
- X Switching capacity (kVA)
- Y Durability (Number of operating cycles)
- A RXM2AB...
- B RXM3AB...
- C RXM4AB...
- D RXM4GB...

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.