RXM3AB1JD

Miniature Plug-in relay - Zelio RXM 3 C/O 12 V DC 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
[Uc] control circuit voltage	12 V DC
[Ithe] conventional enclosed thermal current	10 A at -4055 °C
Status LED	Without
Control type	Lockable test button
Utilisation coefficient	20 %

Complementary

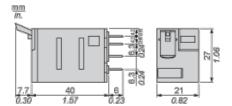
Shape of pin	Flat
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to UL 300 V conforming to CSA
[Uimp] rated impulse withstand voltage	4 kV for 1.2/50 μs
Contacts material	AgNi
[le] rated operational current	10 A at 28 V DC (NO) conforming to IEC 10 A at 250 V AC (NO) conforming to IEC 5 A at 28 V DC (NC) conforming to IEC 5 A at 250 V AC (NC) conforming to IEC 10 A at 30 V DC conforming to UL 10 A at 277 V AC conforming to UL
Maximum switching voltage	250 V conforming to IEC
Load current	10 A at 250 V AC 10 A at 28 V DC
Maximum switching capacity	2500 VA/280 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	160 Ohm at 20 °C +/- 10 %
Rated operational voltage limits	9.613.2 V DC
Safety reliability data	B10d = 100000
Protection category	RTI
Operating position	Any position
CAD overall height	79 mm
CAD overall depth	78.45 mm
Torque value	0.8 N.m
Product weight	0.096 kg
Device presentation	Complete product

Environment

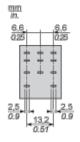


dielectric strength	1300 V AC between contacts with micro disconnection insulation 2000 V AC between coil and contact with reinforced insulation 2000 V AC between poles with basic insulation
product certifications	CE CSA GOST RoHS UL REACH Lloyd's
standards	EN/IEC 61810-1 UL 508 CSA C22.2 No 14
ambient air temperature for storage	-4085 °C
ambient air temperature for operation	-4055 °C
vibration resistance	3 gn (f = 10150 Hz), amplitude +/- 1 mm (on 5 cycles in operation) 5 gn (f = 10150 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	2

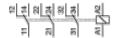
Dimensions

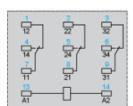


Pin Side View



Wiring Diagram





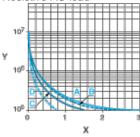
Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

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

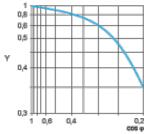


Resistive AC load



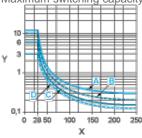
- X Switching capacity (kVA)
- Y Durability (Number of operating cycles)
- A RXM2AB•••
- B RXM3AB•••
- C RXM4AB•••
- D RXM4GB•••

Reduction coefficient for inductive AC load (depending on power factor cos ϕ)



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.