

RXM2AB3F7

Miniature Plug-in relay - Zelio RXM 2 C/O 120 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 type and composition | 2 C/O |
| [Uc] control circuit voltage | 120 V AC, 50/60 Hz |
| [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 in VA | 1.2 at 60 Hz |
| Average consumption | 1.2 VA 60 Hz |
| Drop-out voltage threshold | >= 0.15 U _c |
| Operating time | 20 ms |
| Reset time | 20 ms |
| Average resistance | 3630 Ohm at 20 °C +/- 15 % |
| Rated operational voltage limits | 96...132 V AC |
| 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 |

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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 | -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 |

Offer Sustainability

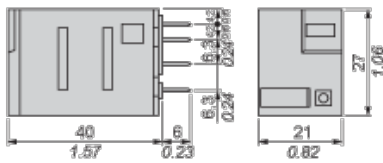
| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0710 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Need no specific recycling operations |

Contractual warranty

| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

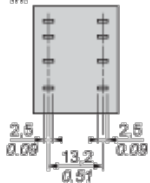
Dimensions

mm
in.

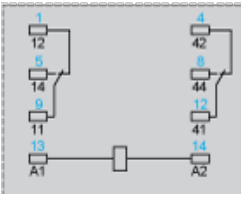


Pin Side View

mm
in.



Wiring Diagram

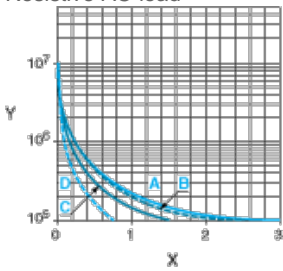


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

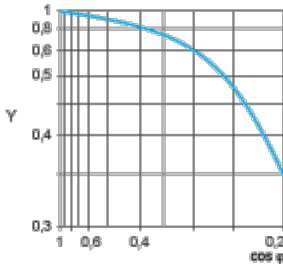
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



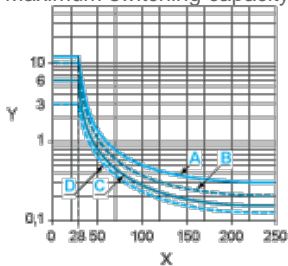
- X Switching capacity (kVA)
- Y Durability (Number of operating cycles)
- A RXM2AB...
- B RXM3AB...
- C RXM4AB...
- D RXM4GB...

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.