



### 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                |
| Control circuit voltage                      | 24 V AC, 50/60 Hz    |
| [Ithe] conventional enclosed thermal current | 12 A at -40...55 °C  |
| Status LED                                   | With                 |
| Control type                                 | Lockable test button |
| Utilisation coefficient                      | 20 %                 |

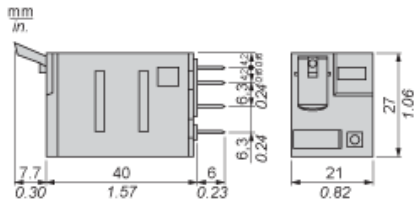
### Complementary

|  |   |
|--|---|
| Shape of pin                           | Flat  |
| [Ui] rated insulation voltage          | 300 V conforming to UL<br>300 V conforming to CSA<br>250 V conforming to IEC  |
| [Uimp] rated impulse withstand voltage | 4 kV for 1.2/50 µs  |
| Contacts material                      | AgNi  |
| [Ie] rated operational current         | 12 A at 277 V AC conforming to UL<br>12 A at 28 V DC conforming to UL<br>6 A at 250 V AC (NC) conforming to IEC<br>6 A at 28 V DC (NC) conforming to IEC<br>12 A at 250 V AC (NO) conforming to IEC<br>12 A at 28 V DC (NO) conforming to IEC |
| Maximum switching voltage              | 250 V conforming to IEC   |
| Resistive rated load                   | 12 A at 28 V DC<br>12 A at 250 V AC   |
| Maximum switching capacity             | 3000 VA/336 W   |
| Minimum switching capacity             | 170 mW at 10 mA, 17 V   |
| Operating rate                         | <= 18000 cycles/hour no-load<br><= 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  |
| Drop-out voltage threshold             | >= 0.15 Uc  |
| Operate time                           | 20 ms   |
| Release time                           | 20 ms   |
| Average coil resistance                | 180 Ohm at 20 °C +/- 15 %   |
| Rated operational voltage limits       | 19.2...26.4 V AC  |
| Safety reliability data                | B10d = 100000   |
| Protection category                    | RT I  |
| Operating position                     | Any position  |
| Product weight                         | 0.037 kg  |

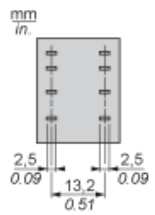
## Environment

|                                       |  |
|---------------------------------------|--|
| Dielectric strength                   | 2000 V AC between poles with basic insulation<br>2000 V AC between coil and contact with reinforced insulation<br>1300 V AC between contacts with micro disconnection insulation |
| Product certifications                | CE<br>CSA<br>GOST<br>RoHS<br>UL<br>REACH<br>Lloyd's  |
| Standards                             | EN/IEC 61810-1<br>UL 508<br>CSA C22.2 No 14  |
| 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 5 cycles not operating)<br>3 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 5 cycles in operation)                                  |
| IP degree of protection               | IP40 conforming to EN/IEC 60529  |
| Shock resistance                      | 30 gn not operating<br>10 gn in operation  |
| Pollution degree                      | 3  |

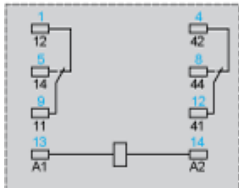
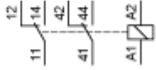
Dimensions



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



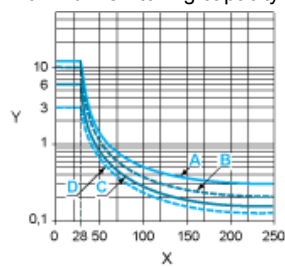
- X Switching capacity (kVA)
- Y Durability (Number of operating cycles)
- A RXM2AB...
- B RXM3AB...
- C RXM4AB...
- D RXM4GB...

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.