



### 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               |
| Control circuit voltage                      | 230 V AC, 50/60 Hz  |
| [Ithe] conventional enclosed thermal current | 10 A at -40...55 °C |
| Status LED                                   | Without             |
| Control type                                 | Pushbutton          |
| 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         | 10 A at 277 V AC conforming to UL<br>10 A at 30 V DC conforming to UL<br>5 A at 250 V AC (NC) conforming to IEC<br>5 A at 28 V DC (NC) conforming to IEC<br>10 A at 250 V AC (NO) conforming to IEC<br>10 A at 28 V DC (NO) conforming to IEC |
| Maximum switching voltage              | 250 V conforming to IEC   |
| Resistive rated load                   | 10 A at 28 V DC<br>10 A at 250 V AC   |
| Maximum switching capacity             | 2500 VA/280 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                | 15000 Ohm at 20 °C +/- 15 %   |
| Rated operational voltage limits       | 184...253 V AC  |
| Protection category                    | RT I  |
| Operating position                     | Any position  |
| Product weight                         | 0.037 kg  |

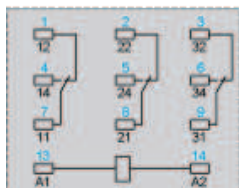
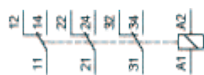
## Environment

|                                       |  |
|---------------------------------------|--|
| 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                      | 2  |

[illegible]

Technical drawing of a rectangular plate with dimensions in mm and in. The plate has a width of 6.6 mm (0.25 in) and a height of 13.2 mm (0.51 in). The plate is divided into three vertical sections by two vertical lines, each 2.5 mm (0.9 in) from the side edges. The central section is 13.2 mm (0.51 in) wide. The plate is shown with a top view and a side view.

## Wiring Diagram

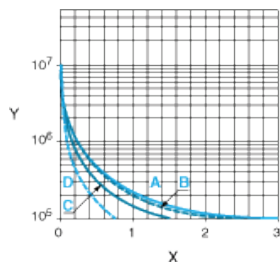


Symbols shown in blue correspond to Nema marking.

## Electrical Durability of Contacts

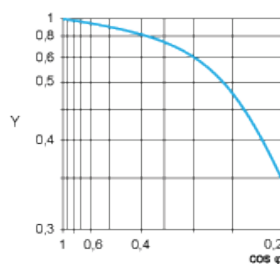
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



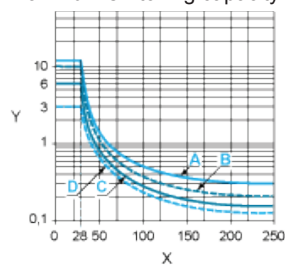
- X Switching capacity (kVA)  
Y Durability (Number of operating cycles)  
A RXM2AB...  
B RXM3AB...  
C RXM4AB...  
D RXM4GB...

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.