



### Main

|                                              |                    |
|----------------------------------------------|--------------------|
| Commercial Status                            | Commercialised     |
| Range of product                             | Zelio Relay        |
| Series name                                  | Miniature          |
| Product or component type                    | Plug-in relay      |
| Device short name                            | RXM                |
| Contacts type and composition                | 4 C/O              |
| Contacts operation                           | Standard           |
| Control circuit voltage                      | 24 V AC            |
| [Ithe] conventional enclosed thermal current | 6 A at -40...55 °C |
| Status LED                                   | Without            |
| Control type                                 | Pushbutton         |
| Coil interference suppression                | Without            |
| Utilisation coefficient                      | 20 %               |
| Sale per indivisible quantity                | 10                 |

### 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 | 2.5 kV 1.2/50 µs IEC 61000-4-5                                                                                                               |
| Contacts material                      | Silver alloy (Ag/Ni)                                                                                                                         |
| [Ie] rated operational current         | 8 A (AC-1/DC-1) conforming to UL<br>6 A (AC-1/DC-1) NO conforming to IEC<br>3 A (AC-1/DC-1) NC conforming to IEC                             |
| Minimum switching current              | 10 mA                                                                                                                                        |
| Maximum switching voltage              | 250 V DC<br>250 V AC conforming to IEC                                                                                                       |
| Minimum switching voltage              | 17 V                                                                                                                                         |
| Resistive rated load                   | 6 A at 28 V DC<br>6 A at 250 V AC                                                                                                            |
| Maximum switching capacity             | 168 W, DC circuit<br>1500 VA, AC circuit                                                                                                     |
| Minimum switching capacity             | 170 mW                                                                                                                                       |
| 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 consumption in VA              | 1.2 AC 60 Hz                                                                                                                                 |
| Drop-out voltage threshold             | >= 0.15 Uc AC                                                                                                                                |
| Operating time                         | 20 ms between coil energisation and making of the On-delay contact<br>20 ms between coil de-energisation and making of the Off-delay contact |
| Average resistance                     | 180 Ohm, AC circuit at 20 °C +/- 15 %                                                                                                        |
| Rated operational voltage limits       | 19.2...26.4 V AC                                                                                                                             |
| Protection category                    | RT I                                                                                                                                         |
| Operating position                     | Any position                                                                                                                                 |

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|                    |          |
|--------------------|----------|
| CAD overall width  | 21 mm    |
| CAD overall height | 27 mm    |
| CAD overall depth  | 55 mm    |
| Product weight     | 0.037 kg |

## Environment

|                                       |                                                                                                                                                                                                                   |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dielectric strength                   | 2000 V AC (between poles)<br>2000 V AC (between coil and contact)<br>1300 V AC (between contacts)                                                                                                                 |
| Product certifications                | CSA<br>GOST<br>Lloyds<br>UL                                                                                                                                                                                       |
| 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 10 cycles not operating) conforming to EN/IEC 60068-2-27<br>3 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 10 cycles in operation) conforming to EN/IEC 60068-2-27 |
| IP degree of protection               | IP40 conforming to EN/IEC 60529                                                                                                                                                                                   |
| Shock resistance                      | 30 gn for 11 ms not operating conforming to EN/IEC 60068-2-27<br>10 gn for 11 ms in operation conforming to EN/IEC 60068-2-27                                                                                     |

## Contractual warranty

|        |           |
|--------|-----------|
| Period | 18 months |
|--------|-----------|

[illegible]

Technical drawing of a rectangular plate with a 3x3 grid of holes. The plate dimensions are 44 mm (width) and 51 mm (height). The grid of holes is 13.2 mm wide and 13.2 mm high, with a center-to-center distance of 4.4 mm between adjacent holes. The distance from the center of the grid to the nearest edge is 2.5 mm. The drawing includes dimensions in both mm and inches.

## 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...