



## 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                 | 24 V DC                            |
| [Ithe] conventional enclosed thermal current | 12 A at -40...131 °F (-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<br>300 V conforming to UL<br>300 V conforming to CSA                                                                                                                                                                  |
| [Uimp] rated impulse withstand voltage | 4 kV 1.2/50 µs                                                                                                                                                                                                                                |
| Contacts material                      | AgNi                                                                                                                                                                                                                                          |
| [Ie] rated operational current         | 12 A at 28 V DC (NO) conforming to IEC<br>12 A at 250 V AC (NO) conforming to IEC<br>6 A at 28 V DC (NC) conforming to IEC<br>6 A at 250 V AC (NC) conforming to IEC<br>12 A at 28 V DC conforming to UL<br>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<br>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<br><= 1200 cycles/hour under load                                                                                                                                                                                |
| Mechanical durability                  | 10000000 cycles                                                                                                                                                                                                                               |
| Electrical durability                  | 100000 cycles 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                     | 650 Ohm at 20 °C +/- 10 %                                                                                                                                                                                                                     |
| Rated operational voltage limits       | 19.2...26.4 V DC                                                                                                                                                                                                                              |
| 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                         | 0.21 lb(US) (0.096 kg)                                                                                                                                                                                                                        |
| Device presentation                    | Complete product                                                                                                                                                                                                                              |

## Environment

|                     |                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| dielectric strength | 1300 V AC between contacts with micro disconnection insulation<br>2000 V AC between coil and contact with reinforced insulation |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------|

2000 V AC between poles with basic 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...185 °F (-40...85 °C)                                                                                                                      |
| ambient air temperature for operation | -40...131 °F (-40...55 °C)                                                                                                                      |
| vibration resistance                  | 3 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 5 cycles in operation)<br>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<br>30 gn not operating                                                                                                       |
| pollution degree                      | 3                                                                                                                                               |

## Offer Sustainability

WARNING: This product can expose you to chemicals including:

Nickel compounds, which is known to the State of California to cause cancer, and

Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.

For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

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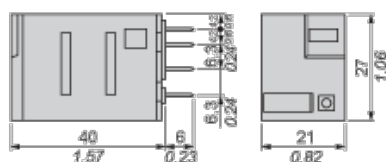
For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

## Contractual warranty

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

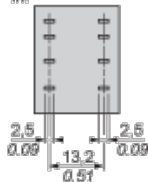
## Dimensions

mm  
in.

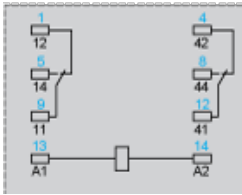


Pin Side View

mm  
in.



## Wiring Diagram

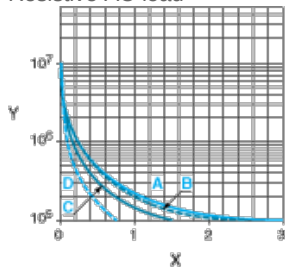


Symbols shown in blue correspond to Nema marking.

## Electrical Durability of Contacts

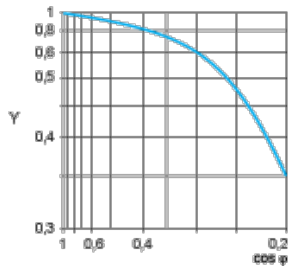
**Durability (inductive load) = durability (resistive load) x reduction coefficient.**

Resistive AC load



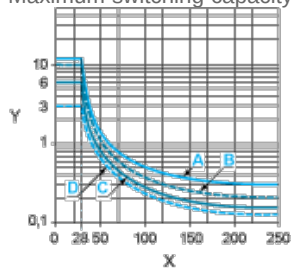
- X Switching capacity (kVA)
- Y Durability (Number of operating cycles)
- A RXM2AB...
- B RXM3AB...
- C RXM4AB...
- D RXM4GB...

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.



**Стандарт  
Электрон  
Связь**

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