



## Main

|                                              |                                    |
|----------------------------------------------|------------------------------------|
| Range of product                             | Zelio Relay                        |
| Series name                                  | Power                              |
| Product or component type                    | Plug-in relay                      |
| Device short name                            | RPM                                |
| Contacts type and composition                | 4 C/O                              |
| [Uc] control circuit voltage                 | 110 V DC                           |
| [Ithe] conventional enclosed thermal current | 15 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         | 15 A at 277 V AC conforming to UL<br>7.5 A at 28 V DC (NC) conforming to IEC<br>15 A at 250 V AC (NO) conforming to IEC<br>7.5 A at 250 V AC (NC) conforming to IEC<br>15 A at 28 V DC (NO) conforming to IEC<br>15 A at 28 V DC conforming to UL |
| Maximum switching voltage              | 250 V conforming to IEC                                                                                                                                                                                                                           |
| Load current                           | 15 A at 250 V AC<br>15 A at 28 V DC                                                                                                                                                                                                               |
| Maximum switching capacity             | 3750 VA<br>420 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               | 1.6 W                                                                                                                                                                                                                                             |
| Drop-out voltage threshold             | >= 0.1 Uc DC                                                                                                                                                                                                                                      |
| Operating time                         | 20 ms at nominal voltage                                                                                                                                                                                                                          |
| Reset time                             | 20 ms at nominal voltage                                                                                                                                                                                                                          |
| Average resistance                     | 6370 Ohm +/- 10 % at 20 °C                                                                                                                                                                                                                        |
| Rated operational voltage limits       | 88...121 V DC                                                                                                                                                                                                                                     |
| Protection category                    | RT I                                                                                                                                                                                                                                              |
| Operating position                     | Any position                                                                                                                                                                                                                                      |
| Safety reliability data                | B10d = 100000                                                                                                                                                                                                                                     |
| Product weight                         | 0.16 lb(US) (0.071 kg)                                                                                                                                                                                                                            |
| Device presentation                    | Complete product                                                                                                                                                                                                                                  |

## Environment

|                     |                                                                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dielectric strength | 2000 V AC between coil and contact with reinforced insulation<br>2000 V AC between poles with basic insulation<br>1500 V AC between contacts with micro disconnection insulation |
| standards           | EN/IEC 61810-1                                                                                                                                                                   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

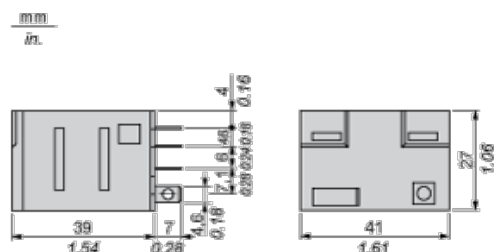
UL 508  
CSA C22.2 No 14

|                                       |                                                                                                                                                 |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| product certifications                | CSA<br>RoHS<br>UL<br>REACH<br>EAC                                                                                                               |
| 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                      | 30 gn not operating<br>15 gn in operation                                                                                                       |
| pollution degree                      | 3                                                                                                                                               |

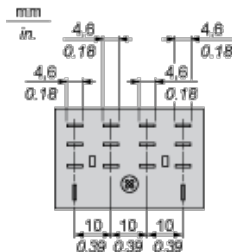
## Contractual warranty

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

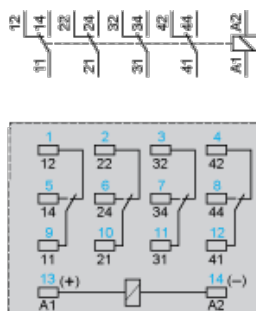
## Dimensions



Pin Side View



## Wiring Diagram

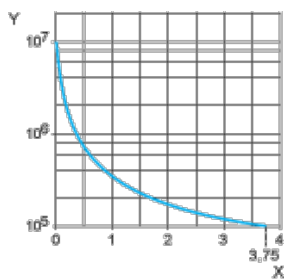


Symbols shown in blue correspond to Nema marking.

## Electrical Durability of Contacts

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

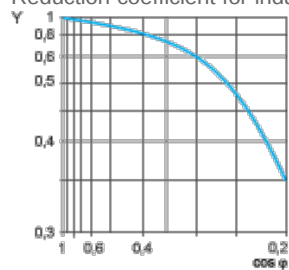
Resistive AC load



X Switching capacity (kVA)

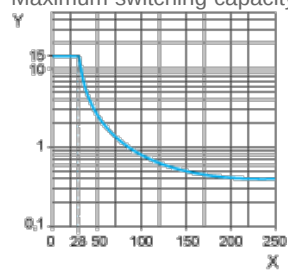
Y Durability (Number of operating cycles)

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

**Note :** These are typical curves, actual durability depends on load, environment, duty cycle, etc.