



### 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                 | 48 V AC              |
| [Ithe] conventional enclosed thermal current | 15 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          | 250 V conforming to IEC<br>300 V conforming to UL<br>300 V conforming to CSA  |
| [Uimp] rated impulse withstand voltage | 4 kV for 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 for resistive load                               |
| Average coil consumption in VA   | 2.5 at 60 Hz   |
| Drop-out voltage threshold       | >= 0.15 U <sub>c</sub> AC                                      |
| Operating time                   | 20 ms at nominal voltage                                       |
| Reset time                       | 20 ms at nominal voltage                                       |
| Rated operational voltage limits | 38.4...52.8 V AC   |
| Protection category              | RT I   |
| Operating position               | Any position   |
| Safety reliability data          | B10d = 100000  |
| Product weight                   | 0.071 kg   |
| Device presentation              | Complete product   |

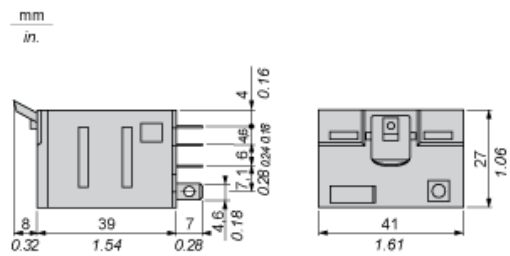
## Environment

|                                       |  |
|---------------------------------------|--|
| 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<br>CSA C22.2 No 14<br>UL 508  |
| Product certifications                | REACH<br>EAC<br>CSA<br>UL<br>RoHS  |
| Ambient air temperature for storage   | -40...85 °C  |
| Ambient air temperature for operation | -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  |

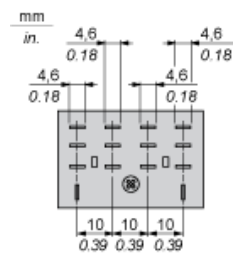
## Contractual warranty

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

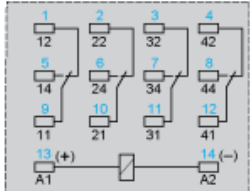
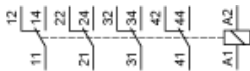
Dimensions



Pin Side View



Wiring Diagram

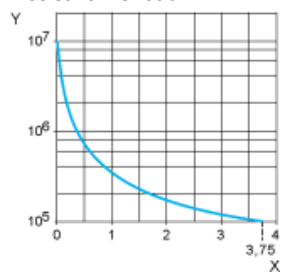


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

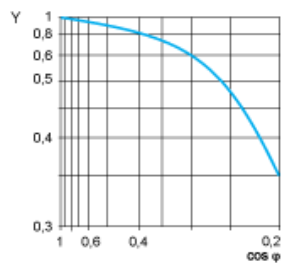
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



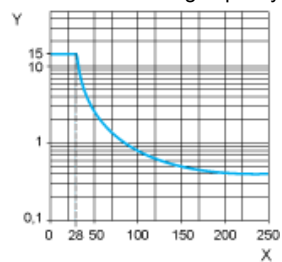
X Switching capacity (kVA)  
Y Durability (Number of operating cycles)

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

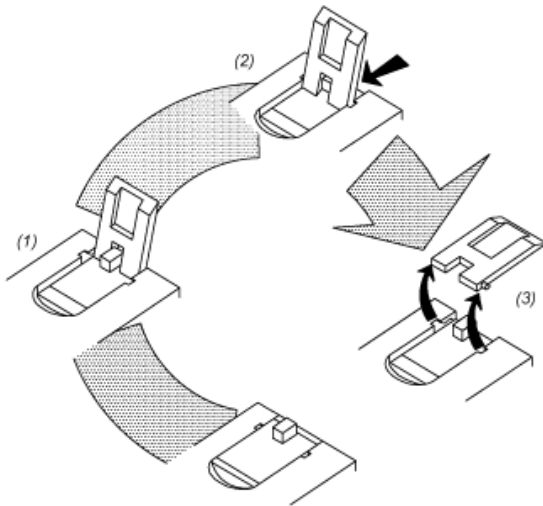
Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

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Technical Description

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Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes.  
CAUTION : Please power off power supply before removal of lock down door.



- (1) Lift the lock down door
- (2) Slide it inwards
- (3) Remove it