



## Main

|                                              |                                    |
|----------------------------------------------|------------------------------------|
| Range of product                             | Zelio Relay                        |
| Series name                                  | Power                              |
| Product or component type                    | Plug-in relay                      |
| Device short name                            | RPM                                |
| Contacts type and composition                | 1 C/O                              |
| [Uc] control circuit voltage                 | 48 V AC                            |
| [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 in VA         | At 60 Hz                                                                                                                                                                                                                                          |
| Drop-out voltage threshold             | >= 0.15 Uc AC                                                                                                                                                                                                                                     |
| Operating time                         | 20 ms at nominal voltage                                                                                                                                                                                                                          |
| Reset time                             | 20 ms at nominal voltage                                                                                                                                                                                                                          |
| Average resistance                     | 708 Ohm +/- 15 % at 20 °C                                                                                                                                                                                                                         |
| 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                         | 0.06 lb(US) (0.026 kg)                                                                                                                                                                                                                            |
| Device presentation                    | Complete product                                                                                                                                                                                                                                  |

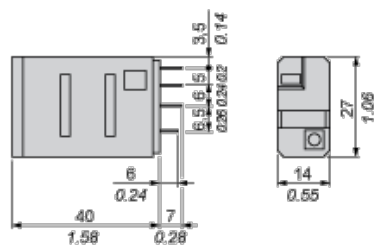
## Environment

|                     |                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| dielectric strength | 2000 V AC between coil and contact with reinforced insulation<br>1500 V AC between contacts with micro disconnection insulation |
| standards           | EN/IEC 61810-1<br>UL 508                                                                                                        |

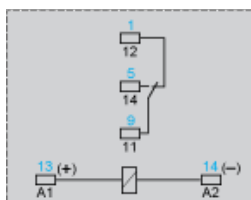
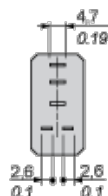
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|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

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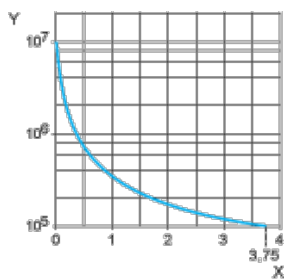


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## Electrical Durability of Contacts

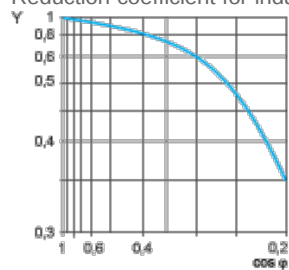
Resistive AC load



X Switching capacity (kVA)

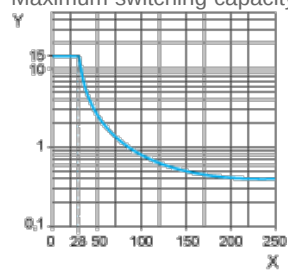
Y Durability (Number of operating cycles)

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.