



## Main

|  |                     |
|--|---------------------|
| Range of product                             | Zelio Relay         |
| Series name                                  | Interface relay     |
| Product or component type                    | Plug-in relay       |
| Device short name                            | RSB                 |
| Contacts type and composition                | 1 C/O               |
| Contacts operation                           | Standard            |
| Control circuit voltage                      | 24 V AC             |
| [Ithe] conventional enclosed thermal current | 16 A at -40...40 °C |
| Status LED                                   | Without             |
| Control type                                 | Without push-button |
| Sale per indivisible quantity                | 10                  |

## Complementary

|  |   |
|--|---|
| Shape of pin                           | Flat (PCB type)   |
| Average resistance                     | 368 Ohm (AC) at 20 °C +/- 10 %  |
| [Ue] rated operational voltage         | 19.2...36 V, 50/60 Hz AC  |
| [Ui] rated insulation voltage          | 400 V conforming to EN/IEC 60947  |
| [Uimp] rated impulse withstand voltage | 3.6 kV conforming to IEC 61000-4-5  |
| Contacts material                      | Silver alloy (AgNi)   |
| [Ie] rated operational current         | 16 A, NO (AC-1/DC-1) conforming to IEC<br>8 A, NC (AC-1/DC-1) conforming to IEC |
| Minimum switching current              | 100 mA  |
| Maximum switching voltage              | 250 V DC conforming to IEC  |
| Switching voltage                      | 5 V   |
| Maximum switching capacity             | 4000 VA/448 W   |
| Load current                           | 16 A at 250 V AC<br>16 A at 28 V DC   |

|                            |   |
|----------------------------|---|
| Minimum switching capacity | 500 mW at 100 mA / 5 V  |
| Operating rate             | <= 600 cycles/hour under load<br><= 18000 cycles/hour no-load                   |
| Mechanical durability      | 10000000 cycles   |
| Electrical durability      | 100000 cycles (16 A at 250 V, AC-1) NO<br>100000 cycles (8 A at 250 V, AC-1) NC |
| Operating time             | 20 ms operating<br>10 ms reset  |
| Marking                    | CE  |
| Average consumption in W   | 0.75 VA AC  |
| Drop-out voltage threshold | >= 0.15 U <sub>c</sub> AC   |
| Safety reliability data    | B10d = 100000   |
| Protection category        | RT I  |
| Operating position         | Any position  |
| Product weight             | 0.014 kg  |

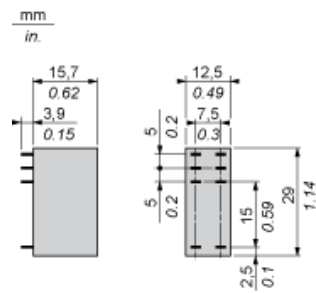
## Environment

|                                       |  |
|---------------------------------------|--|
| Dielectric strength                   | 1000 V AC between contacts<br>2500 V AC between poles<br>5000 V AC between coil and contact                                  |
| Standards                             | EN/IEC 61810-1<br>UL 508<br>CSA C22.2 No 14  |
| Product certifications                | CSA<br>EAC<br>UL   |
| Ambient air temperature for storage   | -40...85 °C  |
| Vibration resistance                  | +/- 1 mm (f = 10...55 Hz) conforming to EN/IEC 60068-2-6   |
| IP degree of protection               | IP40 conforming to EN/IEC 60529  |
| Shock resistance                      | 10 gn for 11 ms not operating conforming to EN/IEC 60068-2-27<br>5 gn for 11 ms in operation conforming to EN/IEC 60068-2-27 |
| Ambient air temperature for operation | -40...70 °C (AC)   |

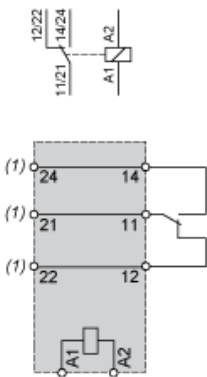
## Contractual warranty

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

Dimensions



Wiring Diagram



(1) Before wiring please refer to the Instruction sheet

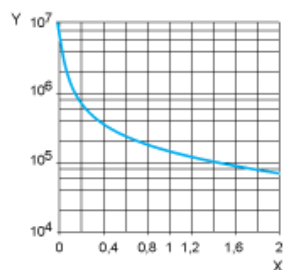
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## Electrical Durability of Contacts

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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.