



Main

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| Range of product | Zelio Relay |
| Series name | Power |
| Product or component type | Plug-in relay |
| Device short name | RPM |
| Contacts type and composition | 3 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

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|--|---|
| Shape of pin | Flat |
| [Ui] rated insulation voltage | 250 V conforming to IEC 300 V conforming to UL 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 7.5 A at 28 V DC (NC) conforming to IEC 15 A at 250 V AC (NO) conforming to IEC 7.5 A at 250 V AC (NC) conforming to IEC 15 A at 28 V DC (NO) conforming to IEC 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 15 A at 28 V DC |
| Maximum switching capacity | 3750 VA 420 W |

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| Minimum switching capacity | 170 mW at 10 mA, 17 V |
| Operating rate | <= 18000 cycles/hour no-load <= 1200 cycles/hour under load |
| Mechanical durability | 10000000 cycles |
| Electrical durability | 100000 cycles for resistive load |
| Average coil consumption in VA | 1.7 at 60 Hz |
| Drop-out voltage threshold | >= 0.15 U _c 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 | 0.054 kg |
| Device presentation | Complete product |

Environment

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| Dielectric strength | 2000 V AC between coil and contact with reinforced insulation 2000 V AC between poles with basic insulation 1500 V AC between contacts with micro disconnection insulation |
| Standards | EN/IEC 61810-1 CSA C22.2 No 14 UL 508 |
| Product certifications | REACH UL CSA EAC 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) 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 15 gn in operation |
| Pollution degree | 3 |

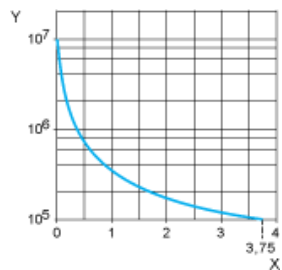
Contractual warranty

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

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

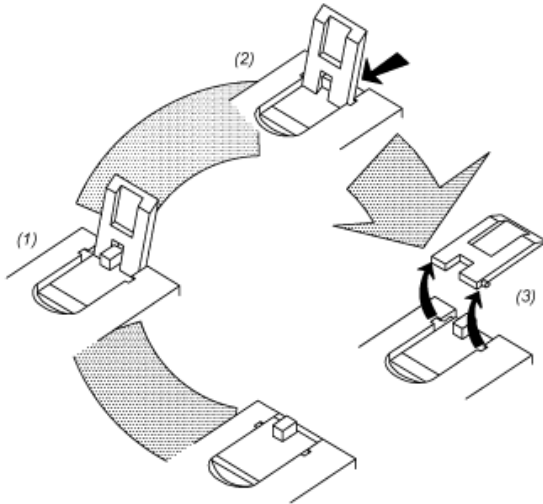


X Voltage DC
Y Current DC

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

Technical Description

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