



Main

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|--|---|
| Range of product | Zelio Relay |
| Series name | Power |
| Product or component type | Plug-in relay |
| Device short name | RPF |
| Contacts type and composition | 2 C/O |
| [Uc] control circuit voltage | 12 V DC |
| Control type | Without lockable test button |
| Shape of pin | Flat |
| Contacts material | Silver tin oxide |
| [Ithe] conventional enclosed thermal current | 25 A at -40...131 °F (-40...55 °C) for relays side by side without a gap 30 A at -40...131 °F (-40...55 °C) for 13 mm gap between two relays |
| Load current | 25 A at 28 V DC 30 A at 250 V AC |
| Utilisation coefficient | 10 % |

Complementary

| | |
|---|--|
| Mounting support | DIN rail Panel |
| Control circuit voltage limits | 9.6...13.2 V |
| [Ie] rated operational current | 30 A at 250 V AC (for NO) conforming to IEC 30 A at 277 V AC (for NO) conforming to UL 20 A at 28 V DC (for NO) conforming to UL 3 A at 250 V AC (for NC) conforming to IEC 3 A at 28 V DC (for NC) conforming to IEC 3 A at 277 V AC (for NC) conforming to UL 3 A at 28 V DC (for NC) conforming to UL 25 A at 28 V DC (for NO) conforming to IEC |
| [Ui] rated insulation voltage | 250 V conforming to IEC 300 V conforming to UL |
| [Uiimp] rated impulse withstand voltage | 4 kV 1.2/50 µs |
| Maximum switching voltage | 250 V conforming to IEC |
| Maximum switching capacity | 7500 VA/700 W |
| Minimum switching capacity | 6000 mW (500 mA/ 12 V) for NO 170 mW (10 mA/ 6 V) for NC |
| Operating rate | <= 18000 cycles/hour no-load <= 1200 cycles/hour under load |
| Mechanical durability | 5000000 cycles |
| Electrical durability | 100000 cycles resistive load |
| Average consumption | 1.7 W |
| Drop-out voltage threshold | >= 0.1 Uc |
| Operating time | 25 ms |
| Reset time | 25 ms |
| Average resistance | 86 Ohm (tolerance +/- 10 %) at 68 °F (20 °C) |
| Safety reliability data | B10d = 100000 |
| Protection category | RT II |
| Operating position | Any position |
| Product weight | 0.18 lb(US) (0.082 kg) |
| Device presentation | Complete product |

Environment

| | |
|---------------------------------------|--|
| dielectric strength | 2000 V AC between poles with basic insulation 1500 V AC between contacts with micro disconnection insulation 4000 V AC between coil and contact with reinforced insulation |
| standards | EN/IEC 61810-1 UL 508 CSA C22.2 No 14 |
| product certifications | CE CSA GOST UL |
| 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 (+/- 1 mm, f = 10...150 Hz) 5 cycles in operation 10 gn (+/- 1 mm, f = 10...150 Hz) 5 cycles not operating |
| IP degree of protection | IP40 conforming to EN/IEC 60529 |
| shock resistance | 10 gn in operation 30 gn not operating |
| pollution degree | 3 |

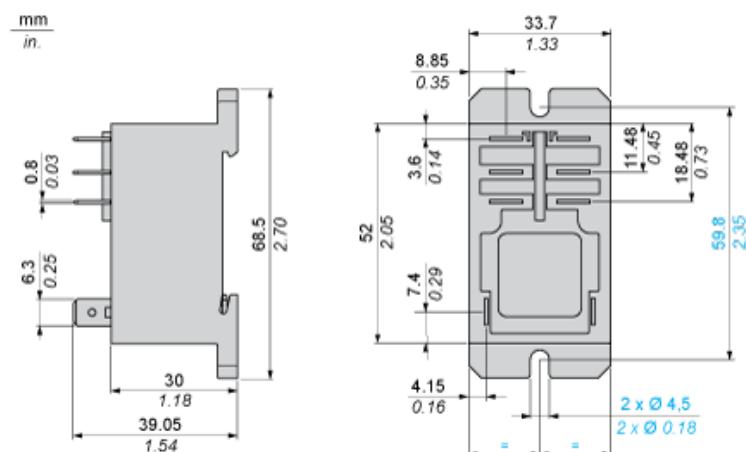
Offer Sustainability

| | |
|--|--|
| Green Premium product | Green Premium product |
| Compliant - since 0801 - Schneider Electric declaration of conformity | Compliant - since 0801 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold | Reference not containing SVHC above the threshold |
| Available | Available |
| Need no specific recycling operations | Need no specific recycling operations |
| WARNING: This product can expose you to chemicals including: | WARNING: This product can expose you to chemicals including: |
| Nickel compounds, which is known to the State of California to cause cancer, and | Nickel compounds, which is known to the State of California to cause cancer, and |
| Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. |
| For more information go to www.p65warnings.ca.gov | For more information go to www.p65warnings.ca.gov |

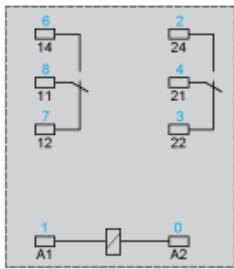
Contractual warranty

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

Dimensions



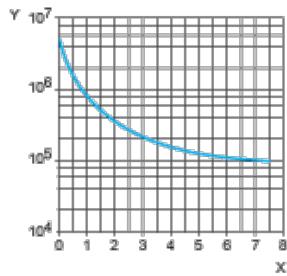
Wiring Diagram



Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

AC Resistive load

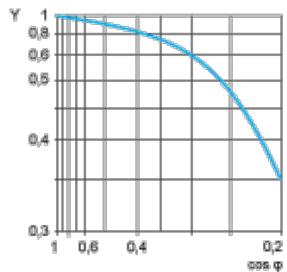


X Switching capacity (kVA)

Y Durability (number of operating cycles)

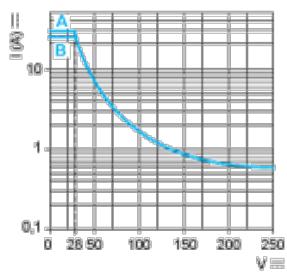
AC Reduction coefficient for inductive load (depending on power factor cos φ)

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



Y reduction coefficient

Maximum switching capacity on DC resistive load



A 30 A

B 25 A

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