

RPF2BP7

power relay plug-in - Zelio RPF - 2 CO - 230 V AC - 30 A



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 |
| Control circuit voltage | 230 V AC |
| Control type | Without lockable test button |
| Shape of pin | Flat |
| Contacts material | Silver tin oxide |
| [I _{th}] conventional enclosed thermal current | 25 A at -40...55 °C for relays side by side without a gap 30 A at -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 | 184...253 V |
| [I _e] 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 |
| [U _i] rated insulation voltage | 250 V conforming to IEC 300 V conforming to UL |
| [U _{imp}] 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 for resistive load |
| Average consumption | 4 VA at 60 Hz |
| Drop-out voltage threshold | >= 0.15 U _c |
| Operating time | 25 ms |
| Reset time | 25 ms |
| Average resistance | 15600 Ohm (tolerance +/- 15 %) at 20 °C |
| Safety reliability data | B10d = 100000 |
| Protection category | RT II |
| Operating position | Any position |
| Product weight | 0.082 kg |
| Device presentation | Complete product |

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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...85 °C |
| ambient air temperature for operation | -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 |

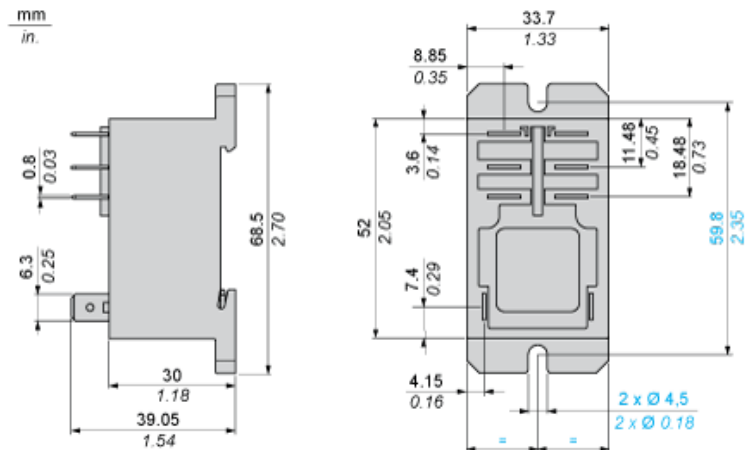
Offer Sustainability

| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0801 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Need no specific recycling operations |

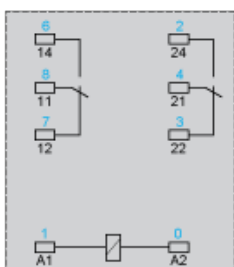
Contractual warranty

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

Dimensions



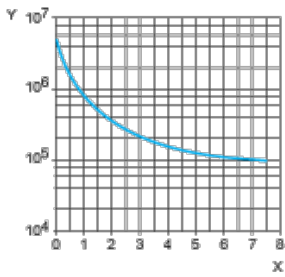
Wiring Diagram



Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

AC Resistive load

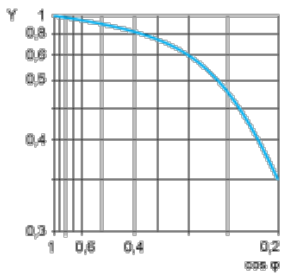


X Switching capacity (kVA)

Y Durability (number of operating cycles)

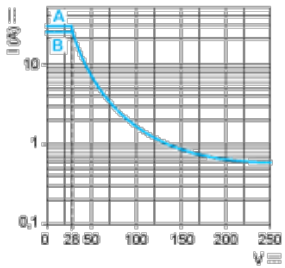
AC Reduction coefficient for inductive load (depending on power factor $\cos \phi$)

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.