## Product data sheet

Characteristics

RPF2AP7
power relay plug-in-Zelio RPF - 2 NO-230 V AC - 30 A

|  | Main |  |
| :---: | :---: | :---: |
|  | Range of product | Zelio Relay |
|  | Series name | Power |
|  | Product or component type | Plug-in relay |
|  | Device short name | RPF |
|  | Contacts type and composition | 2 NO |
|  | Control circuit voltage | 230 V AC |
|  | Shape of pin | Flat |
|  | Contacts material | Silver tin oxide |
|  | [lthe] conventional enclosed thermal current | 30 A at $-40 . . .55^{\circ} \mathrm{C}$ for 13 mm gap between two relays <br> 25 A at $-40 . .55^{\circ} \mathrm{C}$ for relays side by side without a gap |
|  | Rated load (resistive) | 30 A at 28 V DC for 13 mm gap between two relays 30 A at 250 V AC for 13 mm gap between two relays 25 A at 28 V DC for relays side by side without a gap <br> 25 A at 250 V AC for relays side by side without a gap |
|  | Utilisation coefficient | 10 \% |


| Complementary |  |
| :---: | :---: |
| Mounting support | DIN rail Panel |
| Control circuit voltage range | $184 . . .253$ V AC |
| [le] rated operational current | 20 A at 28 V DC (for NO) conforming to UL 30 A at 277 V AC (for NO) conforming to UL 30 A at 28 V DC (for NO) conforming to IEC 30 A at 250 V AC (for NO) conforming to IEC |
| [Ui] rated insulation voltage | 300 V conforming to UL 250 V conforming to IEC |
| [Uimp] rated impulse withstand voltage | 4 kV (1.2/50 $\mu \mathrm{s}$ ) |
| Maximum switching voltage | 250 V DC conforming to IEC 250 V AC conforming to IEC |
| Maximum switching capacity | 7500 VA/840 W 13 mm gap between two relays 6250 VA/700 W relays side by side without a gap |
| Minimum recommended switching capacity | $6000 \mathrm{~mW}(500 \mathrm{~mA} / 12 \mathrm{~V}$ ) for NO |
| Operating rate | <= 18000 cycles/hour no-load <br> < 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 Uc |
| Operating time | 25 ms |
| Release time | 25 ms |
| Average resistance | 15600 Ohm (tolerance: $+/-15 \%$ ) at $20^{\circ} \mathrm{C}$ |
| Protection category | RT II |
| Operating position | Any position |
| Product weight | 0.082 kg |


| Environment |  |
| :---: | :---: |
| Dielectric strength | 1500 V AC between contacts, insulation: micro disconnection <br> 2000 V AC between poles, insulation: basic <br> 4000 V AC between coil and contact, insulation: reinforced |
| Standards | $\begin{aligned} & \text { EN/IEC 61810-1 } \\ & \text { UL } 508 \\ & \text { CSA C22.2 No } 14 \end{aligned}$ |
| Product certifications | CSA <br> GOST <br> UL |
| Ambient air temperature for storage | $-40 \ldots . .85^{\circ} \mathrm{C}$ |
| Ambient air temperature for operation | $-40 . . .5{ }^{\circ} \mathrm{C}$ |
| Vibration resistance | $10 \mathrm{gn}(+/-1 \mathrm{~mm}, \mathrm{f}=10 \ldots 150 \mathrm{~Hz}) 5$ cycles not operating $3 \mathrm{gn}(+/-1 \mathrm{~mm}, \mathrm{f}=10 \ldots 150 \mathrm{~Hz}) 5$ cycles in operation |
| IP degree of protection | IP40 conforming to EN/IEC 60529 |
| Shock resistance | 30 gn not operating <br> 10 gn in operation |
| Pollution degree | 3 |

Contractual warranty



Symbols shown in blue correspond to Nema marking.

## Product data sheet

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

$\begin{array}{ll}\text { A } & 30 \mathrm{~A} \\ \text { B } & 25 \mathrm{~A}\end{array}$
Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

