Product data sheet
Characteristics

RPM22P7
power plug-in relay - Zelio RPM - 2 C/O-230 V AC - 15 A - with LED

| Main |  |  |
| :---: | :---: | :---: |
| Range of product | Zelio Relay | - |
| Series name | Power | $\stackrel{\square}{\square}$ |
| Product or component type | Plug-in relay |  |
| Device short name | RPM | - |
| Contacts type and composition | $2 \mathrm{C} / \mathrm{O}$ | ¢ |
| [Uc] control circuit voltage | 230 V AC | - |
| [lthe] conventional enclosed thermal current | 15 A at $-40 . . .55^{\circ} \mathrm{C}$ |  |
| Status LED | With | ¢ |
| Control type | Lockable test button | - |
| Utilisation coefficient | 20 \% |  |
| Complementary |  | 年 |
| Shape of pin | Flat | Eㅡㅔ |
| [Ui] rated insulation voltage | 250 V conforming to IEC <br> 300 V conforming to UL <br> 300 V conforming to CSA | -0 |
| [Uimp] rated impulse withstand voltage | 4 kV for $1.2 / 50 \mu \mathrm{~s}$ | $\stackrel{8}{8}$ |
| Contacts material | AgNi | $\stackrel{\square}{\circ}$ |
| [le] 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 | $\begin{aligned} & 15 \mathrm{~A} \text { at } 250 \mathrm{~V} \mathrm{AC} \\ & 15 \mathrm{~A} \text { at } 28 \mathrm{~V} \mathrm{DC} \end{aligned}$ | $\stackrel{\text { ¢ }}{\text { ¢ }}$ |
| Maximum switching capacity | $\begin{aligned} & 3750 \text { VA } \\ & 420 \mathrm{~W} \end{aligned}$ | - |
| Minimum switching capacity | 170 mW at $10 \mathrm{~mA}, 17 \mathrm{~V}$ | $\stackrel{\text { E }}{ }$ |
| Operating rate | <= 18000 cycles/hour no-load <= 1200 cycles/hour under load | ¢ $\stackrel{8}{8}$ $\stackrel{0}{\square}$ |
| Mechanical durability | 10000000 cycles | $\stackrel{.1}{0}$ |


| Electrical durability | 100000 cycles for resistive load |
| :--- | :--- |
| Average coil consumption in VA | 1.1 at 60 Hz |
| Drop-out voltage threshold | $>=0.15 \mathrm{Uc}$ AC |
| Operating time | 20 ms at nominal voltage |
| Reset time | 20 ms at nominal voltage |
| Rated operational voltage limits | $184 \ldots 253 \mathrm{~V} \mathrm{AC}$ |
| Protection category | RT I |
| Operating position | Any position |
| Safety reliability data | $\mathrm{B} 10 \mathrm{~d}=100000$ |
| Product weight | 0.036 kg |
| Device presentation | Complete product |

Environment

| 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 |
|  | UL 508 |
|  | CSA C22.2 No 14 |
| Croduct certifications | RoHS |
|  | UL |
|  | REACH |
|  | EAC |
| Ambient air temperature for storage | $-40 \ldots . .85^{\circ} \mathrm{C}$ |
| Ambient air temperature for operation | $-40 \ldots 55^{\circ} \mathrm{C}$ |
| Vibration resistance | $3 \mathrm{gn}(\mathrm{f}=10 \ldots . .150 \mathrm{~Hz})$, amplitude $+/-1 \mathrm{~mm}$ (on 5 cycles in operation) |
|  | $5 \mathrm{gn}(\mathrm{f}=10 . .150 \mathrm{~Hz})$, amplitude $+/-1 \mathrm{~mm}$ (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


## Connections and Schema

Wiring Diagram


Symbols shown in blue correspond to Nema marking.

Durability (inductive load) = durability (resistive load) $\times$ reduction coefficient.
Resistive AC load


X
Switching capacity (kVA)
$\mathrm{Y} \quad$ 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



$$
\begin{array}{ll}
X & \text { Voltage DC } \\
Y & \text { Current DC }
\end{array}
$$

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

