## Product datasheet <br> Characteristics

RPM12P7
power plug-in relay - Zelio RPM - 1 C/O-230 V AC -
15 A - with LED


Main

| Range of product | Zelio Relay |
| :--- | :--- |
| Series name | Power |
| Product or component type | Plug-in relay |
| Device short name | RPM |
| Contacts type and composition | $1 \mathrm{C} / \mathrm{O}$ |
| [Uc] control circuit voltage | 230 V AC |
| $[$ Ithe] conventional enclosed | 15 A at $-40 \ldots 55^{\circ} \mathrm{C}$ |
| thermal current | With |
| Status LED | Lockable test button |
| Control type | $20 \%$ |
| Utilisation coefficient |  |

## Complementary

| 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 $1.2 / 50 \mu \mathrm{~s}$ |
| Contacts material | AgNi |
| [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 $250 \mathrm{VAC}(\mathrm{NC})$ 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 | $\begin{aligned} & 15 \mathrm{~A} \text { at } 250 \mathrm{~V} \mathrm{AC} \\ & 15 \mathrm{~A} \text { at } 28 \mathrm{~V} \mathrm{DC} \end{aligned}$ |
| Maximum switching capacity | $\begin{aligned} & 3750 \mathrm{VA} \\ & 420 \mathrm{~W} \end{aligned}$ |
| Minimum switching capacity | 170 mW at $10 \mathrm{~mA}, 17 \mathrm{~V}$ |
| Operating rate | <= 18000 cycles/hour no-load <br> <= 1200 cycles/hour under load |
| Mechanical durability | 10000000 cycles |
| Electrical durability | 100000 cycles for resistive load |
| Average coil consumption in VA | 1.6 at 60 Hz |
| Drop-out voltage threshold | >= 0.15 Uc AC |
| Operating time | 20 ms at nominal voltage |
| Reset time | 20 ms at nominal voltage |
| Average resistance | 16270 Ohm +/-15\% at $20^{\circ} \mathrm{C}$ |
| Rated operational voltage limits | $184 . .253$ V AC |
| Protection category | RT I |
| Operating position | Any position |
| Safety reliability data | B10d $=100000$ |
| Product weight | 0.026 kg |
| Device presentation | Complete product |

## Environment

| dielectric strength | 2000 V AC between coil and contact with reinforced insulation 1500 V AC between contacts with micro disconnection insulation |
| :---: | :---: |
| standards | EN/IEC 61810-1 UL 508 CSA C22.2 No 14 |
| product certifications | CSA <br> RoHS <br> UL <br> REACH <br> EAC |
| ambient air temperature for storage | $-40 . . .85^{\circ} \mathrm{C}$ |
| ambient air temperature for operation | $-40 . . .55^{\circ} \mathrm{C}$ |
| vibration resistance | $\begin{aligned} & 3 \mathrm{gn}(\mathrm{f}=10 \ldots .150 \mathrm{~Hz}), \text { amplitude }+/-1 \mathrm{~mm} \text { (on } 5 \text { cycles in operation) } \\ & 5 \mathrm{gn}(\mathrm{f}=10 \ldots 150 \mathrm{~Hz}) \text {, amplitude }+/-1 \mathrm{~mm} \text { (on } 5 \text { cycles not operating) } \end{aligned}$ |
| 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

## Dimensions

$\frac{m m}{n}$


Pin Side View
mm
in.


## Wiring Diagram



Symbols shown in blue correspond to Nema marking.

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

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.

