# Product data sheet Characteristics

RPM42FD power plug-in relay - Zelio RPM - 4 C/O - 110 V DC - 15 A - with LED



#### Main

wan	
Range of product	Zelio Relay
Series name	Power
Product or component type	Plug-in relay
Device short name	RPM
Contacts type and composition	4 C/O
[Uc] control circuit voltage	110 V DC
[Ithe] conventional enclosed thermal current	15 A at -4055 °C
Status LED	With
Control type	Lockable test button
Utilisation coefficient	20 %

### Complementary

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Series name	Power	
Product or component type	Plug-in relay	
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Contacts type and composition	4 C/O	
[Uc] control circuit voltage	110 V DC	
[Ithe] conventional enclosed thermal current	15 A at -4055 °C	
Status LED	With	
Control type	Lockable test button	
Utilisation coefficient	20 %	
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 μs	
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 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	15 A at 250 V AC 15 A at 28 V DC	
Maximum switching capacity	3750 VA 420 W	
Nov 07, 2017		



170 mW at 10 mA, 17 V
<= 18000 cycles/hour no-load <= 1200 cycles/hour under load
1000000 cycles
100000 cycles for resistive load
1.6 W
>= 0.1 Uc DC
20 ms at nominal voltage
20 ms at nominal voltage
88121 V DC
RT I
Any position
B10d = 100000
0.071 kg
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	
Product certifications	UL REACH EAC CSA RoHS	
Ambient air temperature for storage	-4085 °C	
Ambient air temperature for operation	-4055 °C	
Vibration resistance	3 gn (f = 10150 Hz), amplitude +/- 1 mm (on 5 cycles in operation) 5 gn (f = 10150 Hz), amplitude +/- 1 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	

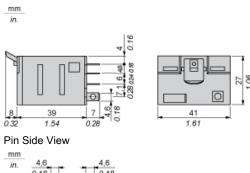
## Contractual warranty

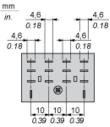
Warranty period

18 months

Product data sheet **Dimensions Drawings** 

#### Dimensions

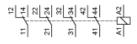


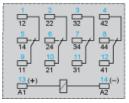


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# RPM42FD

# Wiring Diagram



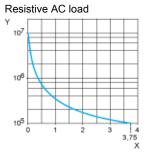


Symbols shown in blue correspond to Nema marking.

#### **Electrical Durability of Contacts**

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

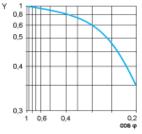
RPM42FD



X Y Switching capacity (kVA)

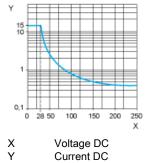
Durability (Number of operating cycles)

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



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load

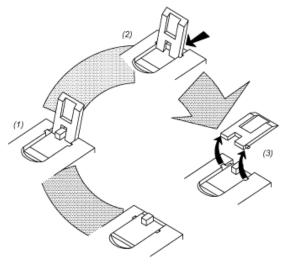


Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

Product data sheet **Technical Description** 

#### **Technical Description**

Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes. CAUTION : Please power off power supply before removal of lock down door.



- (1) (2) (3) Lift the lock down door
- Slide it inwards
- Remove it