## **Product datasheet** Characteristics

RPM12JD power plug-in relay - Zelio RPM - 1 C/O - 12 V DC - 15 A - with LED



#### Main

Series namePowerProduct or component typePlug-in relayDevice short nameRPMContacts type and composition1 C/OControl circuit voltage12 V DC[Ithe] conventional enclosed thermal current15 A at -4055 °CStatus LEDWith	Main		
Product or component typePlug-in relayDevice short nameRPMContacts type and composition1 C/OControl circuit voltage12 V DC[Ithe] conventional enclosed thermal current15 A at -4055 °CStatus LEDWithControl typeLockable test button	Range of product	Zelio Relay	
Device short name   RPM     Contacts type and composition   1 C/O     Control circuit voltage   12 V DC     [Ithe] conventional enclosed thermal current   15 A at -4055 °C     Status LED   With     Control type   Lockable test button	Series name	Power	
Contacts type and composition1 C/OControl circuit voltage12 V DC[Ithe] conventional enclosed thermal current15 A at -4055 °CStatus LEDWithControl typeLockable test button	Product or component type	Plug-in relay	
Control circuit voltage 12 V DC   [Ithe] conventional enclosed thermal current 15 A at -4055 °C   Status LED With   Control type Lockable test button	Device short name	RPM	
[Ithe] conventional enclosed thermal   15 A at -4055 °C     current   Status LED     With   Control type     Lockable test button	Contacts type and composition	1 C/O	
current   Status LED   With   Control type   Lockable test button	Control circuit voltage	12 V DC	
Control type Lockable test button	[Ithe] conventional enclosed thermal current	15 A at -4055 °C	
	Status LED	With	
Utilisation coefficient 20 %	Control type	Lockable test button	
	Utilisation coefficient	20 %	

#### Complementary

current   Status LED   Control type   Lockable test button   Utilisation coefficient   20 %	
Range of product   Zelio Relay     Series name   Power     Product or component type   Plug-in relay     Device short name   RPM     Contacts type and composition   1 C/O     Control circuit voltage   12 V DC     [Ithe] conventional enclosed thermal   15 A at -4055 °C     current   With     Control type   Lockable test button     Utilisation coefficient   20 %     Complementary   Flat     [Ui] rated insulation voltage   250 V conforming to IEC 300 V conforming to UL	
Range of product   Zelio Relay     Series name   Power     Product or component type   Plug-in relay     Device short name   RPM     Contacts type and composition   1 C/O     Control circuit voltage   12 V DC     [Ithe] conventional enclosed thermal   15 A at -4055 °C     current   With     Control type   Lockable test button     Utilisation coefficient   20 %     Complementary   Flat     [Ui] rated insulation voltage   250 V conforming to IEC 300 V conforming to UL	
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Control type Lockable test button   Utilisation coefficient 20 %   Complementary Shape of pin   [Ui] rated insulation voltage 250 V conforming to IEC 300 V conforming to UL	
Utilisation coefficient   20 %     Complementary	
Complementary     Shape of pin   Flat     [Ui] rated insulation voltage   250 V conforming to IEC 300 V conforming to UL	
[Ui] rated insulation voltage 250 V conforming to IEC 300 V conforming to UL	
Shape of pin Flat   [Ui] rated insulation voltage 250 V conforming to IEC 300 V conforming to UL	:
[Ui] rated insulation voltage 250 V conforming to IEC 300 V conforming to UL	
300 V conforming to UL	
	:
[Uimp] rated impulse withstand voltage 4 kV for 1.2/50 µs	
Contacts material AgNi	
[le] rated operational current15 A at 277 V AC conforming to UL7.5 A at 28 V DC (NC) conforming to IEC15 A at 250 V AC (NO) conforming to IEC7.5 A at 250 V AC (NC) conforming to IEC15 A at 28 V DC (NC) conforming to IEC15 A at 28 V DC (NO) conforming to IEC15 A at 28 V DC (NO) conforming to IEC15 A at 28 V DC (NO) conforming to IEC15 A at 28 V DC (NO) conforming to IEC15 A at 28 V DC (NO) conforming to IEC	
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	
Mar 09, 2017	



Minimum switching capacity	170 mW at 10 mA, 17 V
Operating rate	<= 18000 cycles/hour no-load <= 1200 cycles/hour under load
Mechanical durability	1000000 cycles
Electrical durability	100000 cycles for resistive load
Average consumption in W	1.1 W
Drop-out voltage threshold	>= 0.1 Uc DC
Operating time	20 ms at nominal voltage
Reset time	20 ms at nominal voltage
Rated operational voltage limits	9.613.2 V DC
Protection category	RTI
Operating position	Any position
Safety reliability data	B10d = 100000
Product weight	0.026 kg

### 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	UL RoHS EAC CSA REACH	
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

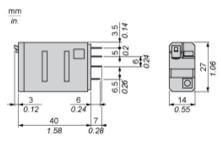
Warranty period

18 months

Product datasheet Dimensions Drawings

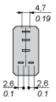
# RPM12JD

### Dimensions









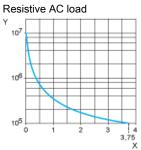
Wiring Diagram

Symbols shown in blue correspond to Nema marking.

## RPM12JD

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

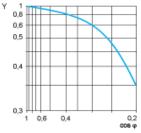
Durability (inductive load) = durability (resistive load) x reduction coefficient.



X Switching capacity (kVA)

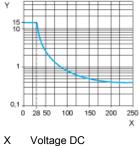
Y Durability (Number of operating cycles)

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



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



Y Current DC

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