Product data sheet

Specifications





power plug-in relay - Zelio RPM - 1 C/O - 48 V DC - 15 A - with LED

RPM12ED

Discontinued on: Nov 1, 2020

① Discontinued

Main

Range Of Product	Harmony Electromechanical Relays	
Series Name	Power	
Product Or Component Type	Plug-in relay	
Device Short Name	RPM	
Contacts Type And Composition	1 C/O	
[Uc] Control Circuit Voltage	48 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 CSA
	300 V conforming to UL
[Uimp] Rated Impulse Withstand Voltage	4 kV during 1.2/50 μs
Contacts Material	AgNi
[le] Rated Operational Current	15 A at 277 V (AC) conforming to UL
	15 A at 28 V (DC) conforming to UL
	15 A at 250 V (AC) NO conforming to IEC
	15 A at 28 V (DC) NO conforming to IEC
	7.5 A at 250 V (AC) NC conforming to IEC
	7.5 A at 28 V (DC) NC conforming to IEC
Maximum Switching Voltage	250 V conforming to IEC
Resistive Load Current	15 A at 250 V AC
	15 A at 28 V DC
Maximum Switching Capacity	3750 VA
	420 W
Minimum Switching Capacity	170 mW at 10 mA, 17 V
Operating Rate	<= 1200 cycles/hour under load
	<= 18000 cycles/hour no-load
Mechanical Durability	10000000 cycles
Electrical Durability	100000 cycles for resistive load
Average Coil Consumption	1.1 W

List Price displayed is VAT EXCLUSIVE.

Drop-Out Voltage Threshold	>= 0.1 Uc DC
Operate Time	20 ms at nominal voltage
Release Time	20 ms at nominal voltage
Average Coil Resistance	1800 Ohm at 20 °C +/- 10 %
Rated Operational Voltage Limits	38.452.8 V DC
Protection Category	RTI
Test Levels	Level A group mounting
Operating Position	Any position
Pollution Degree	3
Safety Reliability Data	B10d = 100000
Net Weight	0.026 kg
Device Presentation	Complete product

Environment

Dielectric Strength	1500 V AC between contacts with micro disconnection 2000 V AC between coil and contact with reinforced	
Standards	CSA C22.2 No 14 UL 508 EN/IEC 61810-1	
Product Certifications	UL EAC CSA	
Ambient Air Temperature For Storage	-4085 °C	
Ambient Air Temperature For Operation	-4055 °C	
Vibration Resistance	3 gn, amplitude = +/- 1 mm (f = 10150 Hz)5 cycles in operation 5 gn, amplitude = +/- 1 mm (f = 10150 Hz)5 cycles not operating	
Degree Of Protection (Housing Only)	IP40 conforming to EN/IEC 60529	
Shock Resistance	15 gn for in operation 30 gn for not operating	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.4 cm
Package 1 Width	3.3 cm
Package 1 Length	5.0 cm
Package 1 Weight	26.0 g

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance



Reach Free Of Svhc



Rohs Exemption Information

Yes

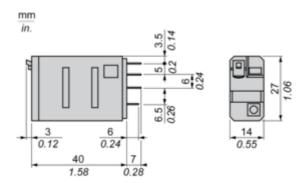
Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	No need of specific recycling operations

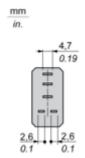
RPM12ED

Dimensions Drawings

Dimensions



Pin Side View

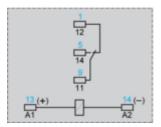


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Connections and Schema

Wiring Diagram





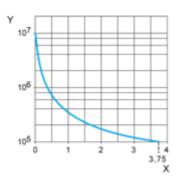
Symbols shown in blue correspond to Nema marking.

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Performance Curves

Electrical Durability of Contacts

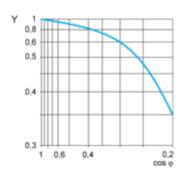
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

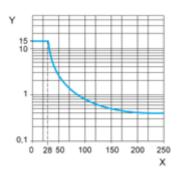
Y Durability (Number of operating cycles)

Reduction coefficient for inductive AC load (depending on power factor cos φ)



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.