RPM42P7

plug-in relay, Harmony electromechanical relays, 15A, 4CO, with LED, lockable test button, 230V AC





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	4 C/O
[Uc] control circuit voltage	230 V AC 50/60 Hz
[Ithe] conventional enclosed thermal current	15 A at -4055 °C
Status LED	With
Control type	Lockable test button
Utilisation coefficient	20 %

Complementary

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 in VA	2.5 at 60 Hz
Drop-out voltage threshold	>= 0.15 Uc AC
Operate time	20 ms at nominal voltage
Release time	20 ms at nominal voltage
Average coil resistance	7350 Ohm at 20 °C +/- 15 %
Rated operational voltage limits	184253 V AC
Protection category	RTI
Test levels	Level A group mounting
Operating position	Any position
Pollution degree	3

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Safety reliability data	B10d = 100000
Net weight	0.071 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	
	2000 V AC between poles with basic	
Standards	UL 508	
	IEC 61810-1	
	CSA C22.2 No 14	
Product certifications	EAC[RETURN]CSA[RETURN]UL	
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 IEC 60529	
Shock resistance	15 gn for in operation	
	30 gn for not operating	
Shock resistance	·	

Packing Units

racking units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.7 cm
Package 1 Width	4 cm
Package 1 Length	2.8 cm
Package 1 Weight	76 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3 cm
Package 2 Width	10.5 cm
Package 2 Length	22.5 cm
Package 2 Weight	769 g
Unit Type of Package 3	S02
Number of Units in Package 3	120
Package 3 Height	15 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	9.746 kg

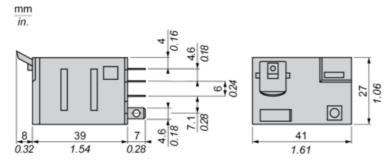
Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☑REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China RoHS Regulation	☑ China RoHS Declaration	
RoHS exemption information	₫Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	No need of specific recycling operations	

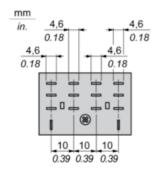
Contractual warranty

Warranty	18 months	

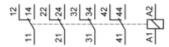
Dimensions

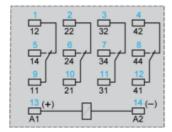


Pin Side View



Wiring Diagram



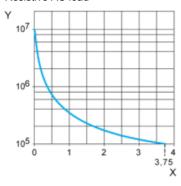


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

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

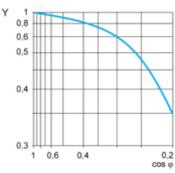
Resistive AC load



X Switching capacity (kVA)

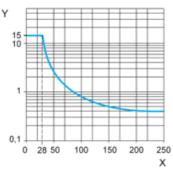
Y Durability (Number of operating cycles)

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.