Product datasheet

Specification





Harmony, Power plug-in relay, 15 A, 2 CO, with LED, 230 V AC

RPM23P7

! Discontinued on: 30 Jun 2023

! 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	2 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	Without 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 In Va	1.1 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	16270 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	
Safety Reliability Data	B10d = 100000	
Net Weight	0.036 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	CSA C22.2 No 14 UL 508 EN/IEC 61810-1	
Product Certifications	UL CSA EAC	
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	2.7 cm
Package 1 Width	2.1 cm
Package 1 Length	3.9 cm
Package 1 Weight	36.0 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	10
Package 2 Height	3.1 cm
Package 2 Width	10.2 cm
Package 2 Length	12.5 cm
Package 2 Weight	396.0 g
Unit Type Of Package 3	S01

Number Of Units In Package 3	120
Package 3 Height	15.0 cm
Package 3 Width	15.0 cm
Package 3 Length	40.0 cm
Package 3 Weight	5.075 ka

Contractual warranty

Warranty 18 months

Sustainability Screen Premium*

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Reach Free Of Svhc



Rohs Exemption Information

Yes

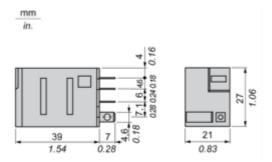
Certifications & Standards

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

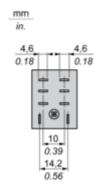
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Dimensions Drawings

Dimensions



Pin Side View

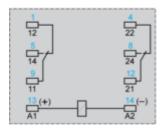


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Connections and Schema

Wiring Diagram





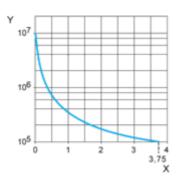
Symbols shown in blue correspond to Nema marking.

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Performance Curves

Electrical Durability of Contacts

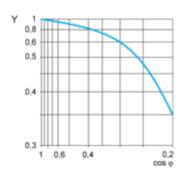
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

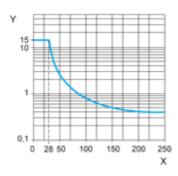
Y Durability (Number of operating cycles)

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.