Product datasheet





Power plug-in relay, 15 A, 4 CO, with LED, 48 V AC

RPM42E7

! To be discontinued on: 15 Aug 2024

! 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	4 C/O	
[Uc] control circuit voltage	48 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

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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

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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	310 Ohm at 20 °C +/- 15 %	
Rated operational voltage limits	38.452.8 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	0.071 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	CSA C22.2 No 14 IEC 61810-1 UL 508	
Product certifications	EAC UL 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 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	2.700 cm	
Package 1 Width	4.100 cm	
Package 1 Length	4.800 cm	
Package 1 Weight	72.000 g	
Unit Type of Package 2	BB1	
Number of Units in Package 2	10	
Package 2 Height	3.100 cm	
Package 2 Width	10.200 cm	
Package 2 Length	22.500 cm	
Package 2 Weight	768.000 g	
Unit Type of Package 3	S01	

Number of Units in Package 3	40
Package 3 Height	15.000 cm
Package 3 Width	15.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	3.297 kg

Contractual warranty

Warranty 12 months

Sustainability Green Premium*

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

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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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