

plug-in relay, Harmony electromechanical relays, 15A, 4CO, lockable test button, 110V DC

RPM41FD

Discontinued on: 11 October 2023

1 To be end-of-service on: 31 December 2030

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	110 V DC
[Ithe] conventional enclosed thermal current	15 A at -4055 °C
Status LED	Without
Control type	Lockable test button
Utilisation coefficient	20 %

Flat
250 V conforming to IEC 300 V conforming to CSA 300 V conforming to UL
4 kV during 1.2/50 μs
AgNi
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
250 V conforming to IEC
15 A at 250 V AC 15 A at 28 V DC
3750 VA 420 W
170 mW at 10 mA, 17 V
<= 1200 cycles/hour under load <= 18000 cycles/hour no-load

Mechanical durability

10000000 cycles

Electrical durability	100000 cycles for resistive load
Average coil consumption	1.6 W
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	6370 Ohm at 20 °C +/- 10 %
Rated operational voltage limits	88121 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	0.071 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 EN/IEC 61810-1 UL 508
Product certifications	CSA EAC 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 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	3.0 cm
Package 1 Width	4.3 cm
Package 1 Length	5.0 cm
	0.0 0.11
Package 1 Weight	73.0 g
Package 1 Weight	
Offer Sustainability	
Offer Sustainability	73.0 g
Offer Sustainability REACh Regulation	73.0 g REACh Declaration

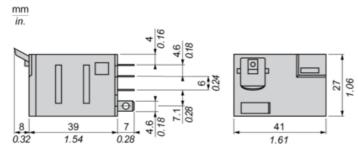
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Contractual warranty	
Warranty	18 months

Product datasheet

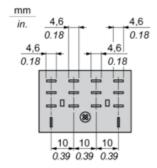
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Dimensions Drawings

Dimensions



Pin Side View

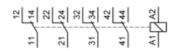


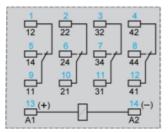
Product datasheet

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Connections and Schema

Wiring Diagram





Symbols shown in blue correspond to Nema marking.

Product datasheet

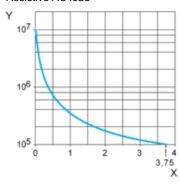
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Performance Curves

Electrical Durability of Contacts

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

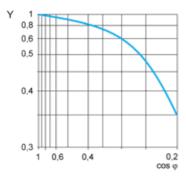
Resistive AC load



X Switching capacity (kVA)

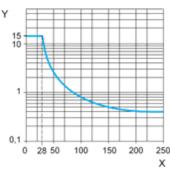
Y Durability (Number of operating cycles)

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



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.

Recommended replacement(s)