

HRM Series

PCB Power Relays



Features:

- SPCO contacts.
- Sealed to allow washing after flow soldering.

Specifications:

Coil Data:

Nominal Voltage : 3V dc to 24V dc.
Nominal Power consumption : 540mW to 720mW.

Contact Data:

Contact Arrangement : 1 form C.
Contact Material : AgCdo.
Contact Rating : Resistive Load : 10A 250V ac / 30V dc.
Inductive Load : 5A 240V ac $\cos\phi = 0.4$
5A 30V dc L/R = 7ms.
Maximum Switching Voltage : 110V dc / 250V ac.
Maximum Switching Current : 10A.
Maximum Switching Power : 2500VA, 300W.
Contact Resistance (initial) : 100m Ω at 6V dc 1A.
Life Expectancy Electrical : 100,000 operations at nominal load TV-5 120V ac.
Mechanical : 50,000 operations at $\cos\phi = 0.4$, L/R = 7ms
10,000,000 operations.

General Data:

Insulation Resistance : Minimum 100M Ω at 500V dc.
Dielectric Strength : 1000V ac, 1 minute between open contacts
5000V ac, 1 minute between contacts and coil.
Operate Time : Maximum 15ms.
Release Time : Maximum 8ms.
Temperature Range : -30 to +55°C (720mW).
-30 to +70°C (540mW).
Shock Resistance : 10G.
Vibration Resistance : 10 - 55Hz, Amplitude 1.5mm.
Weight : 13 grams.

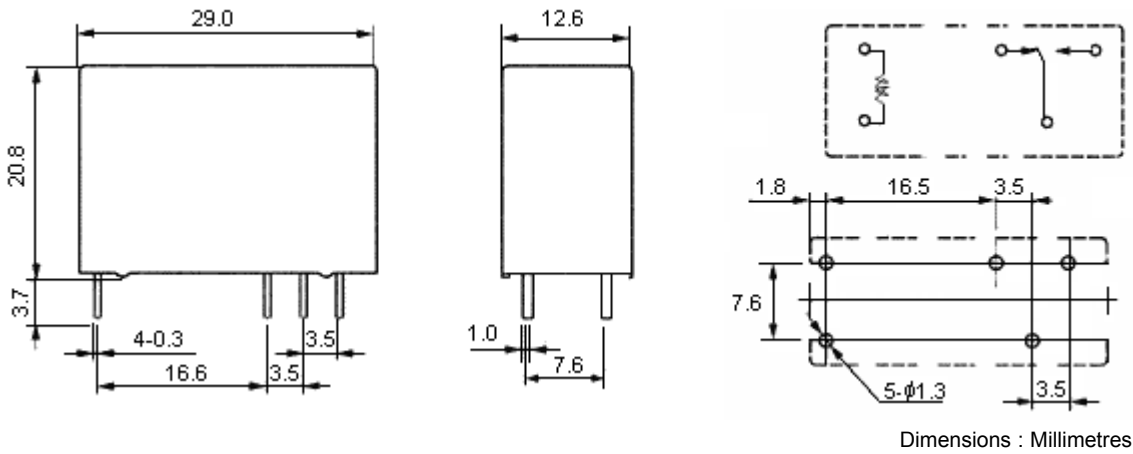


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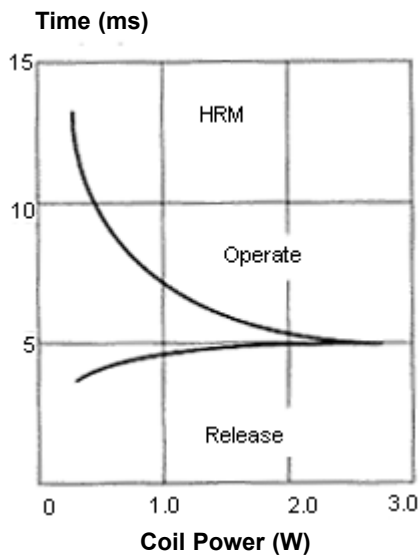


Dimensions

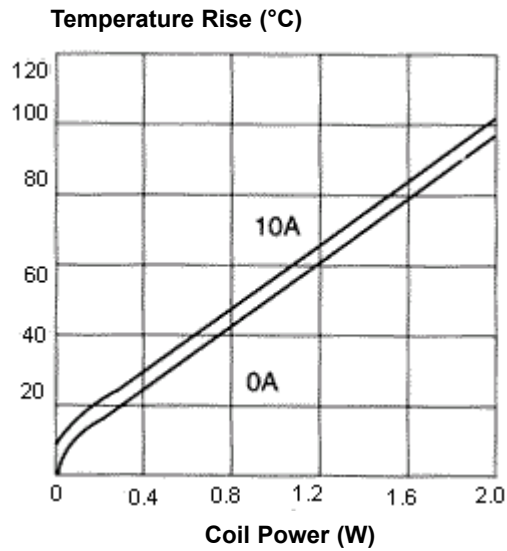


HRM Characteristic Data

Timing (Standard Type)



Coil Temperature Rise (Standard Type)

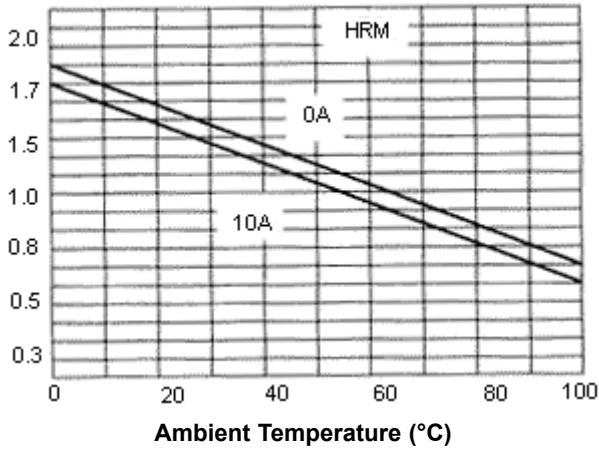


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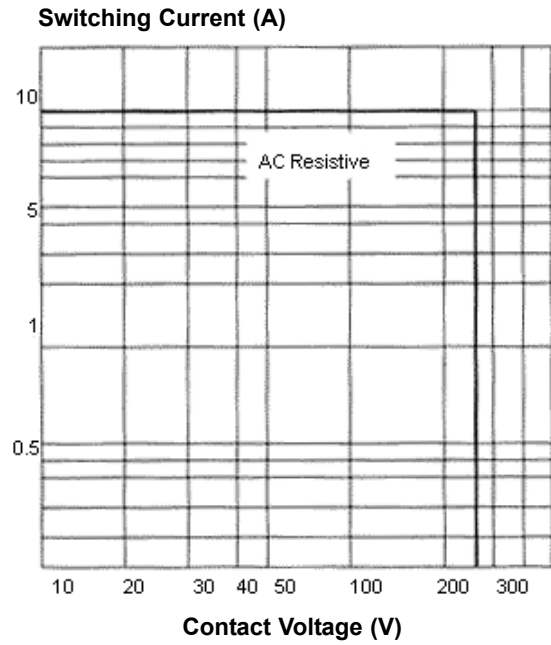
PCB Power Relays



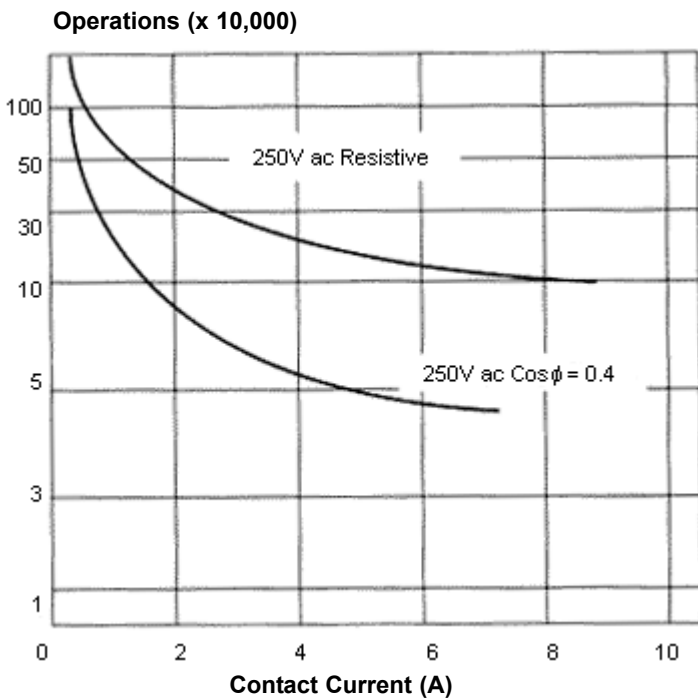
Operating Range
Nominal Voltage Multiplying Factory



Maximum Switching Power



Life Curve



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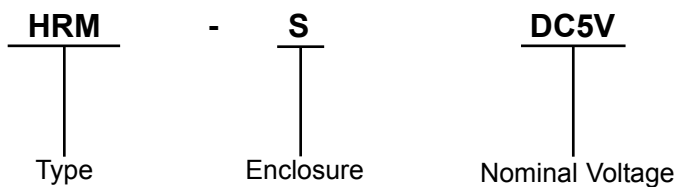
PCB Power Relays



Coil Data Chart

Coil Nominal (V dc)	Coil Resistance (Ω) $\pm 10\%$	Operate Voltage (V dc)	Release Voltage (V dc)	Part Number
5	36	4.0	0.25	HRM-S DC5V
9	115	7.2	0.45	HRM-S DC9V
12	200	9.6	0.6	HRM-S DC12V
24	820	19.2	1.20	HRM-S DC24V

Part Number Explanation



Enclosure

: S = Washable.

Nominal Voltage

: DC5V = 5V, DC9V = 9V, DC12V = 12V and DC24V = 24V.

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Notes:

International Sales Offices:



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<http://www.farnellinone.com>

<http://www.buckhickmaninone.com>

<http://www.cpc.co.uk>

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