

MCHRM2 Series

PCB Power Relays



Features:

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

Specifications:

Coil Data:

Nominal Voltage : 3V dc to 48V dc.
Nominal Power consumption : 540mW to 720mW.

Contact Data:

Contact Arrangement : 1 form A, 1 form B, 1 form C.
Contact Material : AgCdo.
Contact Rating : Resistive Load : 16A 250V ac / 30V dc.
Inductive Load : 8A 240V ac $\cos\mu = 0.4$.
8A 30V dc L/R = 7ms.
Maximum Switching Voltage : 150V dc / 250V ac.
Maximum Switching Current : 16A.
Maximum Switching Power : 3,840VA, 480W.
Contact Resistance (initial) : 100m Ω at 6V dc 1A.
Life Expectancy Electrical : 100,000 operations at nominal load TV-8 120V ac.
Mechanical : 100,000 operations at $\cos\mu = 0.4$, L/R = 7ms.
10,000,000 operations.

General Data:

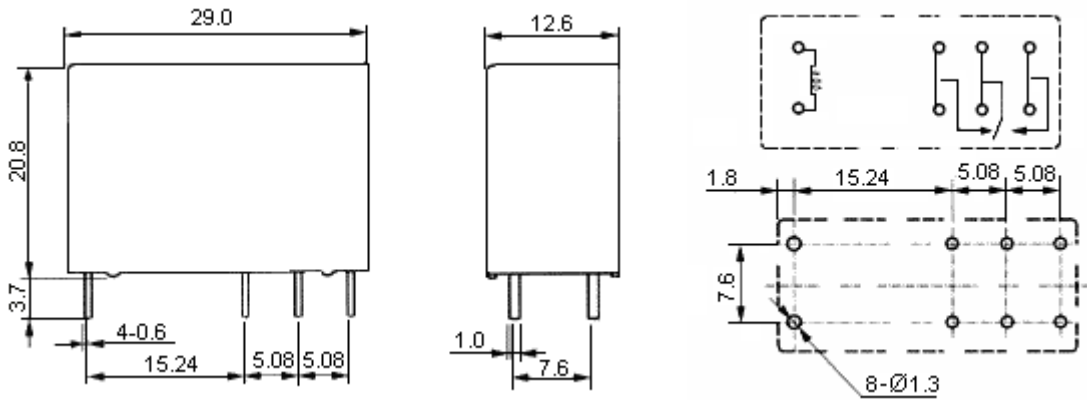
Insulation Resistance : Minimum 100M Ω at 500V dc.
Dielectric Strength : 1000V ac, 1 minute between open contacts.
5000V ac, 1 minute between contacts and coil.
Operate Time : Maximum 15ms.
Release Time : Maximum 8ms.
Temperature Range : -30 to +55°C (720mW).
-30 to +70°C (540mW).
Shock Resistance :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

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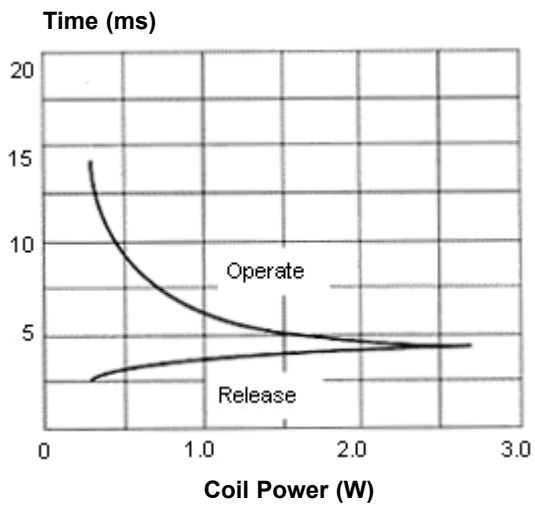
Dimensions:



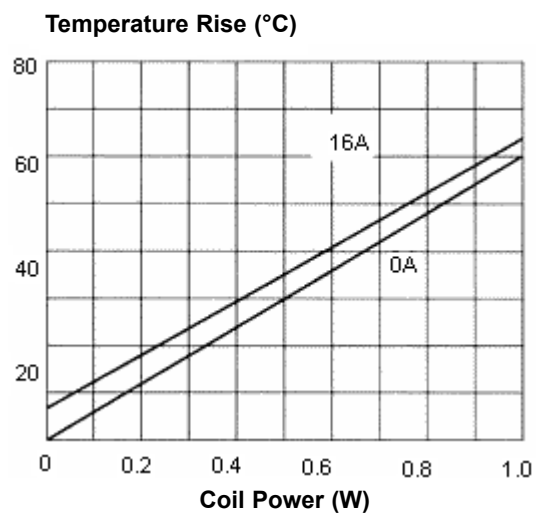
Dimensions : Millimetres

HRM2 Characteristic Data

Timing



Coil Temperature Rise



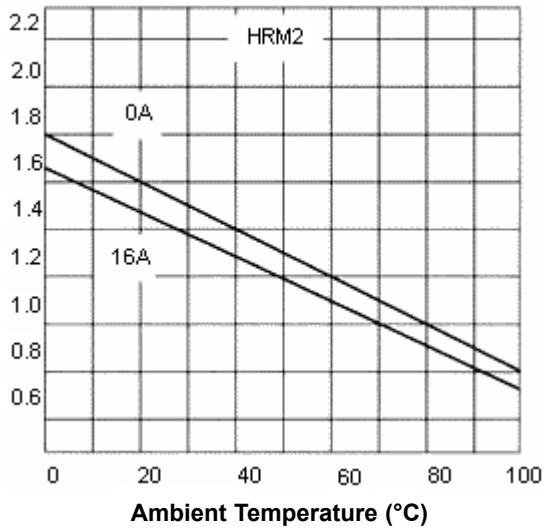
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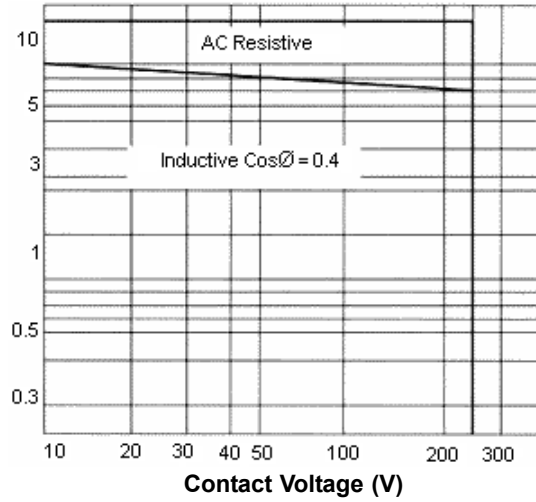
Operating Range

Nominal Voltage multiplying Factor



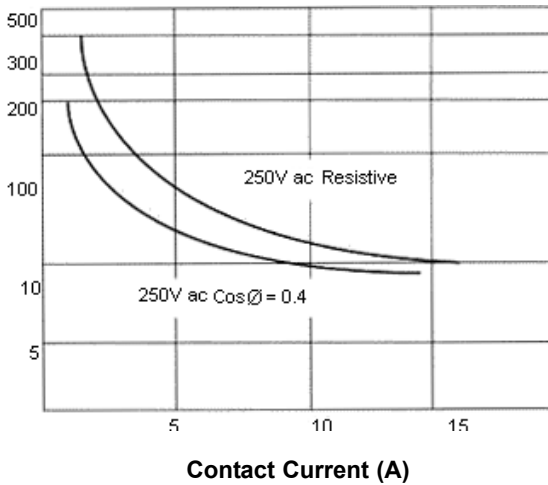
Maximum Switching Power

Contact Current (A)



Life Curve

Operation (x 10,000)



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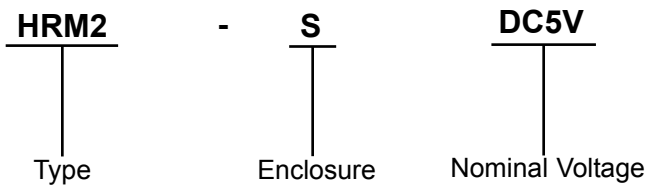
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Coil Data Chart

Type	Coil Nominal (V dc)	Coil Resistance (Ω) $\pm 10\%$	Operate Voltage (V dc)	Release Voltage (V dc)	Part Number
SPCO 16A	5	36	4.0	0.25	HRM2-S DC5V
	9	115	7.2	0.45	HRM2-S DC9V
	12	200	9.6	0.6	HRM2-S DC12V
	24	820	19.2	1.20	HRM2-S DC24V

Part Number Explanation



Enclosure

: S = Washable.

Nominal Voltage

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

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Notes:

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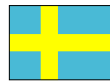
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<http://www.cpc.co.uk>

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