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.

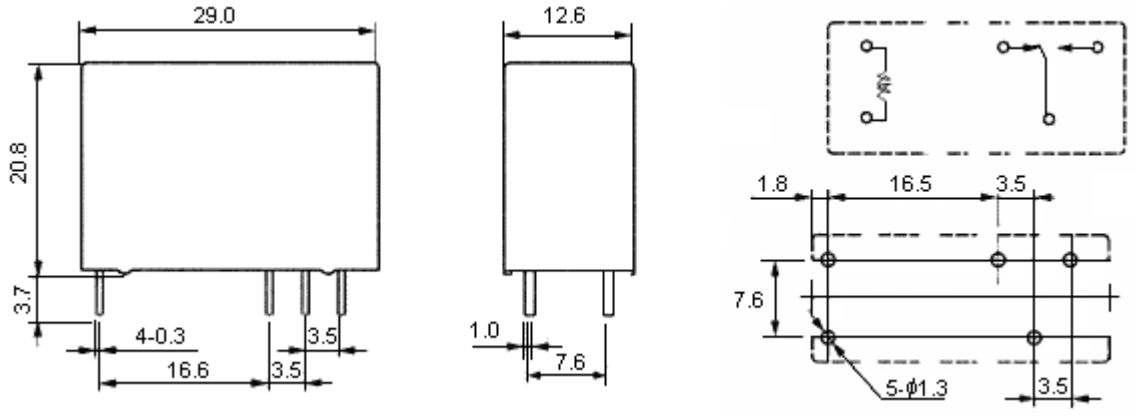
Contact Data:

Contact Arrangement	: 1 form C.
Contact Material	: AgCdo.
Contact Rating	: Resistive Load : 10A 250V ac / 30V dc. Inductive Load : 5A 240V ad cos|μ = 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)	: 100mΩ at 6V dc 1A.
Life Expectancy Electrical	: 100,000 operations at nominal load TV-5 120V ac.
Mechanical	: 50,000 operations at cos|μ = 0.4, L/R = 7ms 10,000,000 operations.

General Data:

Insulation Resistance	: Minimum 100MΩ 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.

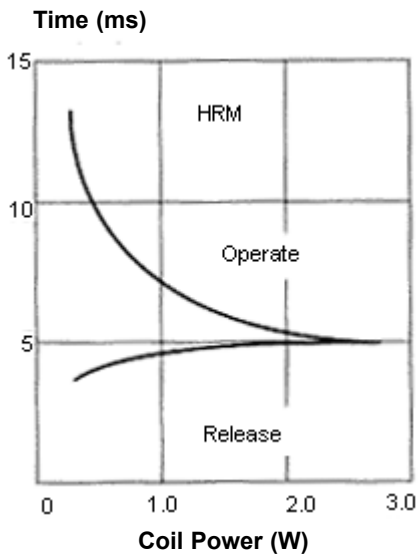
Dimensions



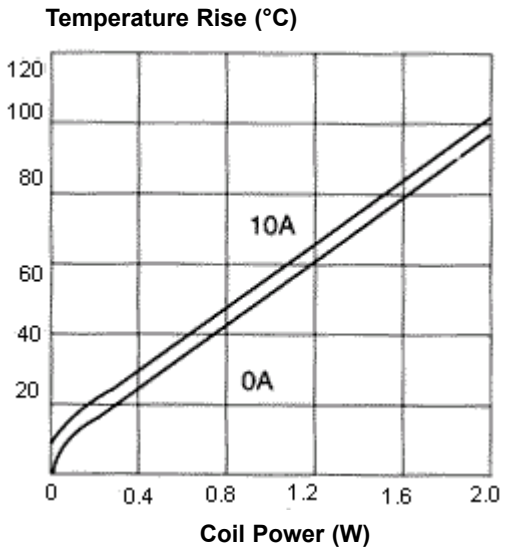
Dimensions : Millimetres

HRM Characteristic Data

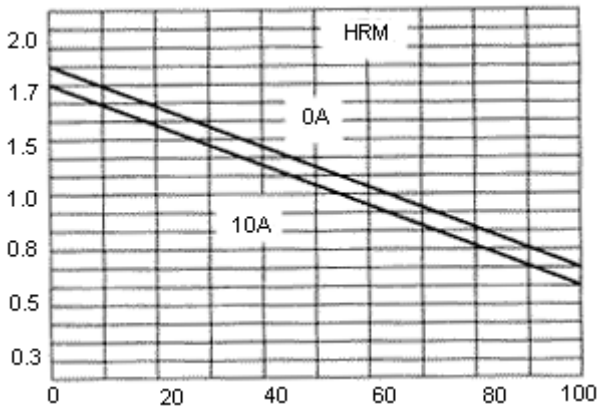
Timing (Standard Type)



Coil Temperature Rise (Standard Type)



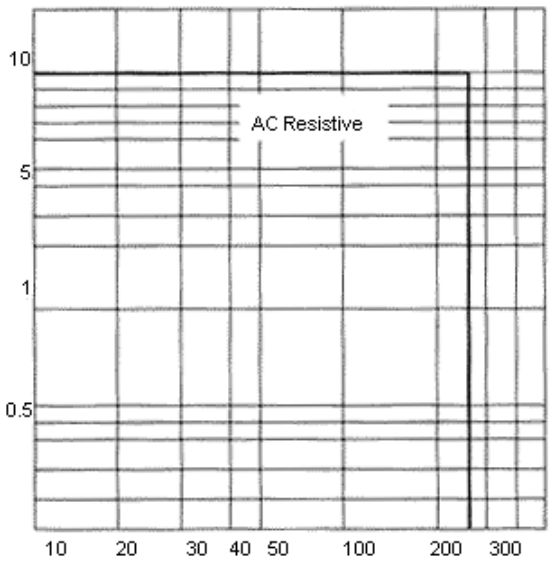
Operating Range
Nominal Voltage Multiplying Factory



Ambient Temperature (°C)

Maximum Switching Power

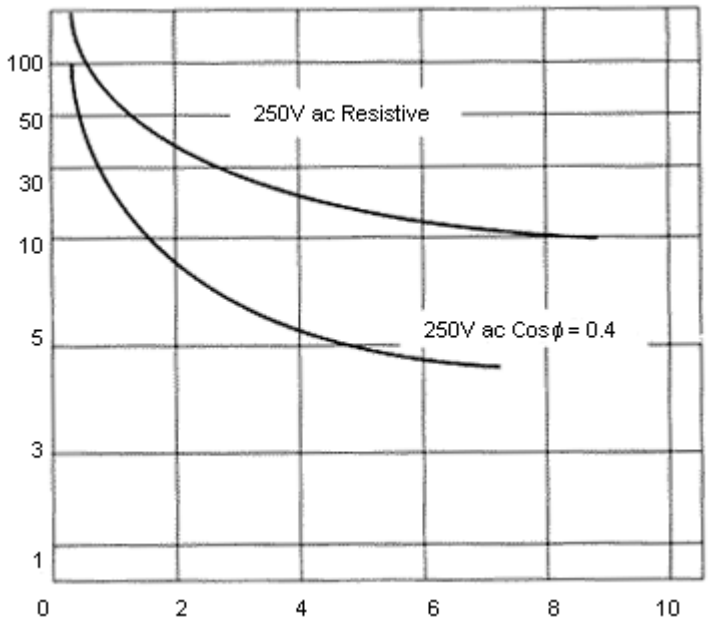
Switching Current (A)



Contact Voltage (V)

Life Curve

Operations (x 10,000)

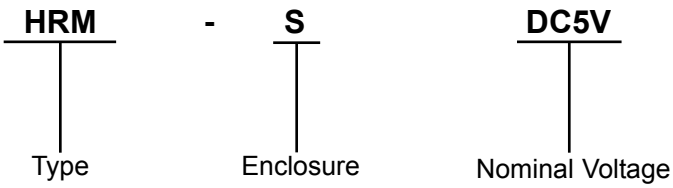


Contact Current (A)

Coil Data Chart

Coil Nominal (V dc)	Coil Resistance (Ω) ±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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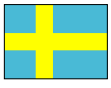

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