HRM Series

PCB Power Relays

multicomp

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.

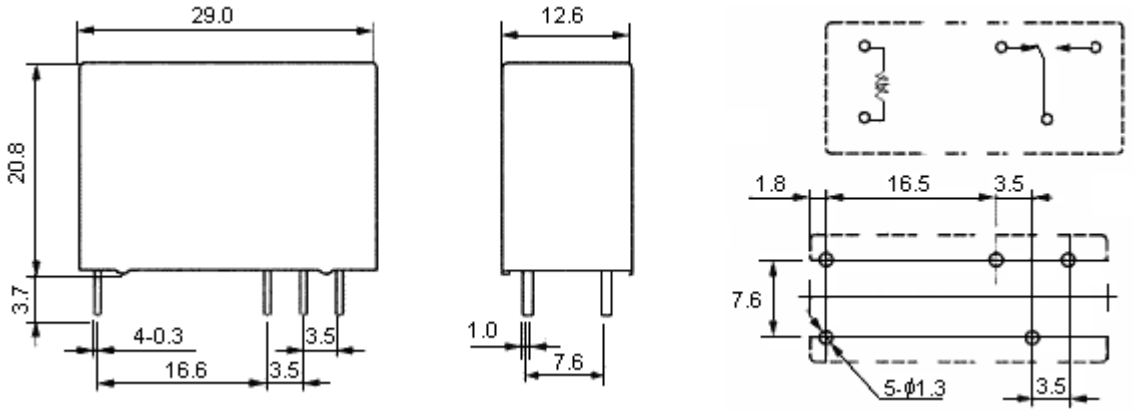
Contact Data:

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.

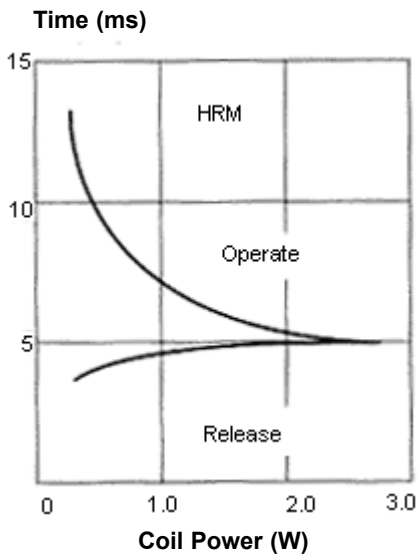
Dimensions



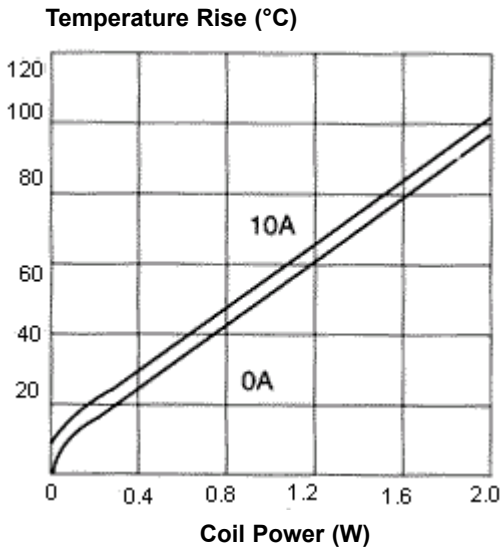
Dimensions : Millimetres

HRM Characteristic Data

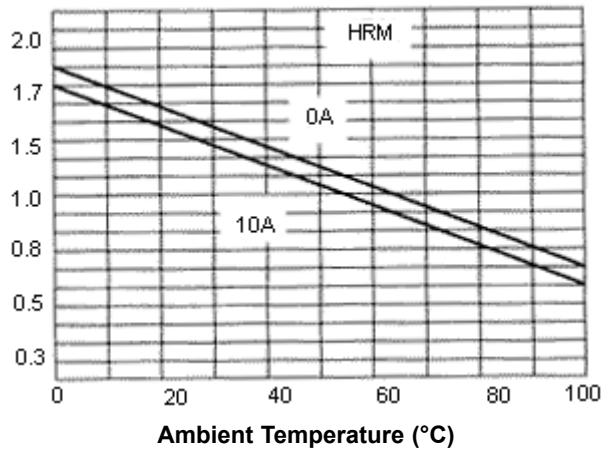
Timing (Standard Type)



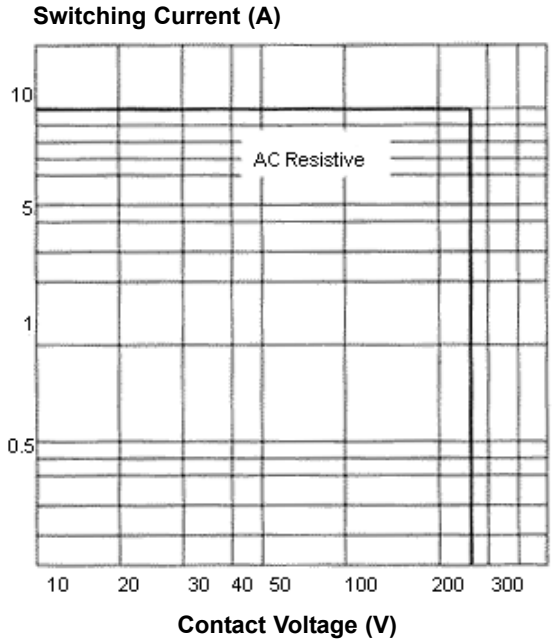
Coil Temperature Rise (Standard Type)



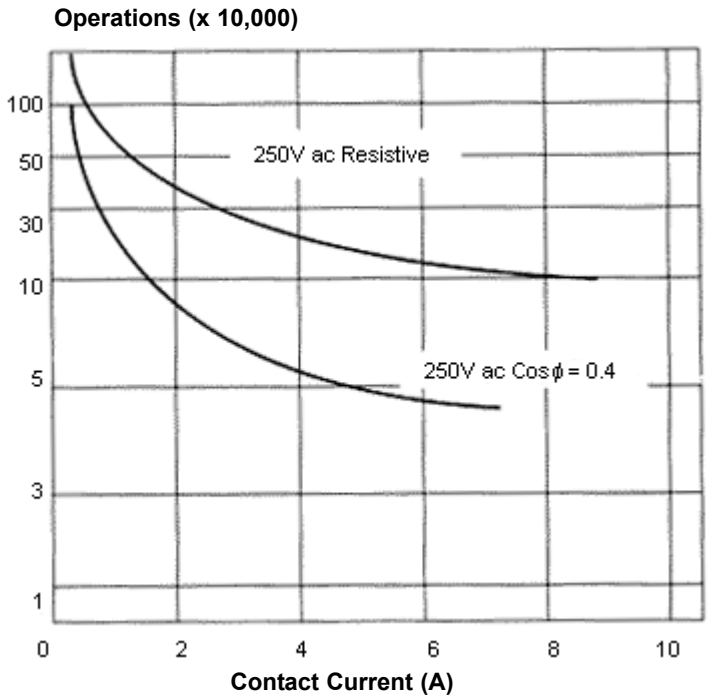
Operating Range
Nominal Voltage Multiplying Factory



Maximum Switching Power



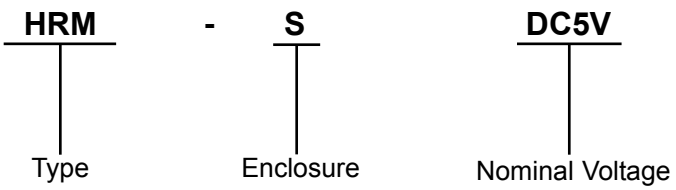
Life Curve



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.