

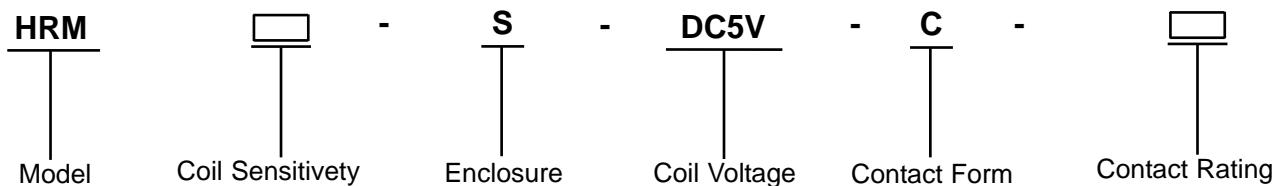
# Power Relays



## Features:

- Slim type with low height.  
Dimension : 29 x 12.6 x 20.8 (mm).
- TV-5 Rating
- Creepage distance : 8 mm.
- Contact form : 1 form C.

## Part Number Explanation:



<b>Coil Sensitivity</b>	: Blank - Standard (720mW).
<b>Enclosure</b>	: S-Plastic sealed type.
<b>Coil Voltage</b>	: DC5V, DC9V, DC12V and DC24V.
<b>Contact Form</b>	: C-1 Form C.
<b>Contact Rating</b>	: Blank - 10A 250V ac.

## Specifications

Contact Data		
Contact Material	Ag Alloy	
Contact Rating	Resistive : 10A 250V ac/30V dc TV Rating : TV-5 Inductive : 5A 240V ac (COSØ = 0.4) Resistive : 16A 250V ac (T)	
Contact Resistance	Maximum 100mΩ (6V dc 1A)	
Load	Maximum Switching Voltage	250V ac / 30V dc
	Maximum Switching Current	16A
	Maximum Switching Power	4,000VA, 480W
	Minimum Switching Load	5V dc, 100mA

# Power Relays



## Specifications

Contact Data		
Life	Electrical	100,000 Operations
		50,000 Operations (COSØ = 0.4 L/R = 7ms)
	Mechanical	10,000,000 Operations
Coil Data		
Nominal Coil Power		540mW, 720mW
General Data		
Insulation Resistance		Minimum 1,000MΩ 500V dc
Dielectric Strength	Between Open Contacts	1,000V ac, 1 Min
	Between Coil and Contacts	4,000V ac, 1 Min
Operate Time		Maximum 15ms
Release Time		Maximum 8ms
Operating Temperature		-30°C to +55°C (720mW)
		-30°C to +70°C (540mW)
Humidity		35 to 95% RH, +40°C
Shock Resistance	Endurance	1,000m/s <sup>2</sup>
	Misoperation	100m/s <sup>2</sup>
Vibration Resistance	Endurance	10 to 55Hz, 1.5mm Double Amplitude
	Misoperation	

## Coil Data

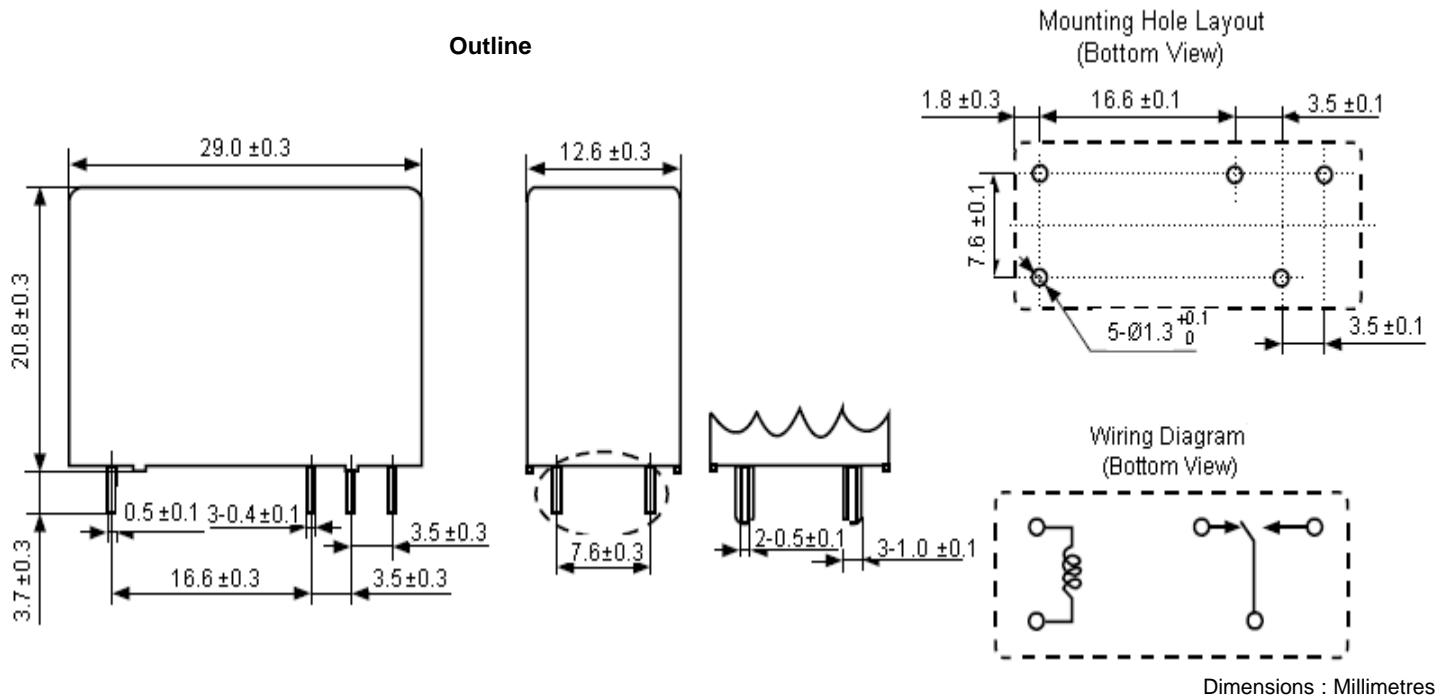
Ambient Temperature: 23°C

Nominal Voltage V dc	Coil Resistance Ω ±10%	Operate Voltage ≤ V dc	Release Voltage ≥ V dc	Coil Power mW	Part Number
5	35	3.75	0.5	720	HRM-S-DC5V-C
9	112.5	6.75	0.9		HRM-S-DC9V -C
12	200	9	1.2		HRM-S-DC12V-C
24	800	18	2.4		HRM-S-DC24V-C

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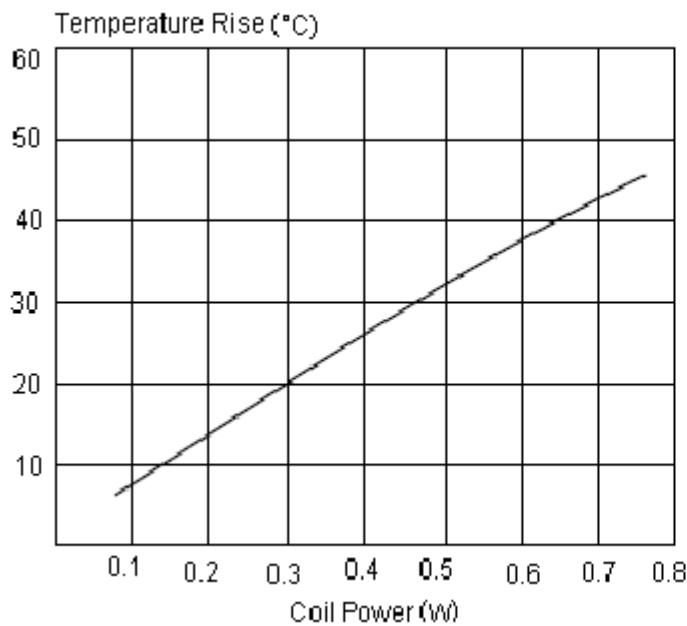
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## Out Line, Wiring Diagram, Mounting Hole Layout (Unit : mm)

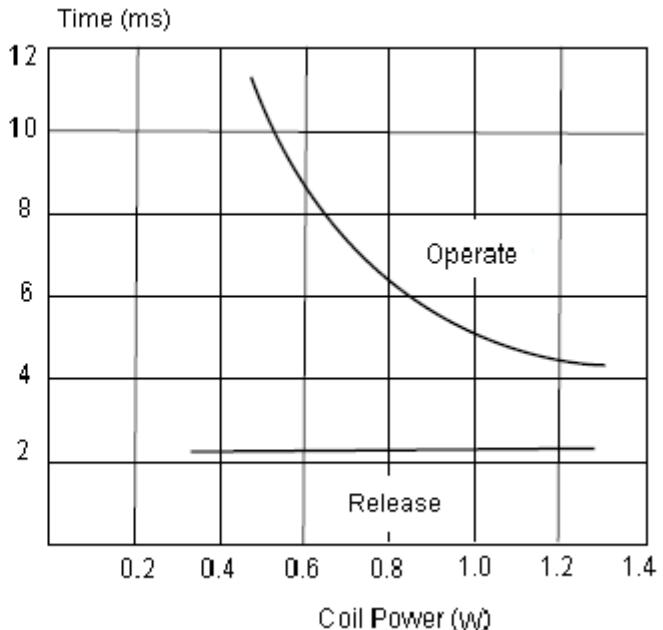


## Characteristic Chart Data

### Coil Temperature Rise



### Timing

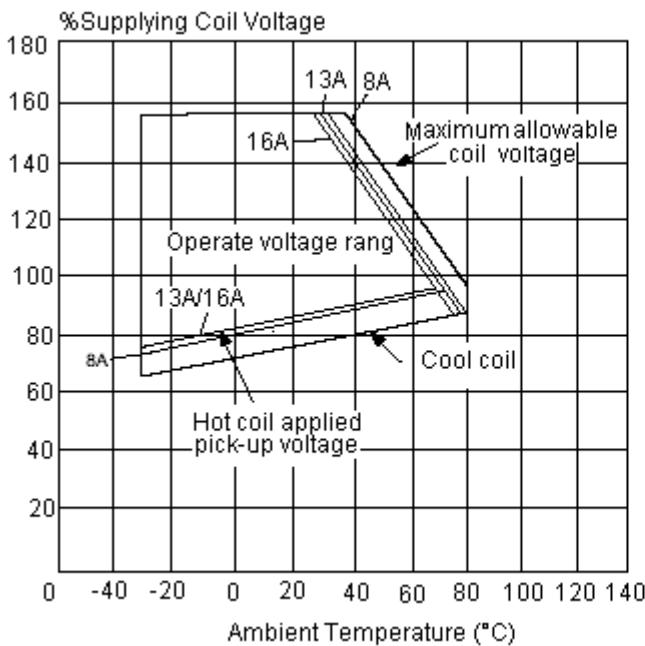


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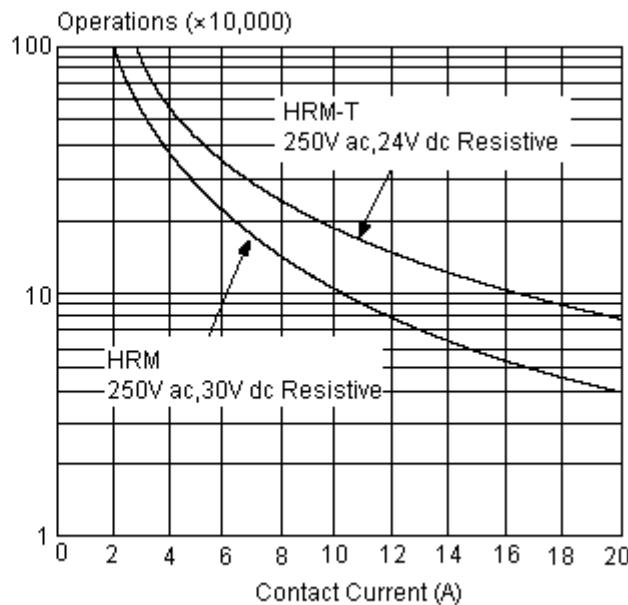
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## Characteristic Chart Data

### Operate Range



### Life Curves



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