



Features:

- Miniature relay.
Dimension : 19 × 15.5 × 15.8 (mm).
- Contact form : 1 form C.
- TV-5 rating.

Part Number Explanation:

HRS4

Model

-

Coil Sensitivity

-

S

Enclosure

-

DC5V

Coil Voltage

-

C

Contact Form

Coil Sensitivity : Blank - Standard (450mW)

Enclosure : S-Plastic Sealed Type.

Coil Voltage : DC5V, DC12V and DC24V.

Contact Form : C-1 Form C.

Specifications

Contact Data		
Contact Material		Ag Alloy
Contact Rating		A: 15A 125V ac, 10A 250V ac
		C: NO: 10A 250V ac / 24V dc
		NC: 6A 250V ac / 24V dc
		TV-5 125V ac
Contact Resistance		Maximum 100mΩ (6V dc 1A)
Load	Maximum Switching Voltage	250V ac / 30V dc
	Maximum Switching Current	15A
	Maximum Switching Power	2,500VA,300W
	Minimum Switching Load	5V dc,100mA
Life	Electrical	100,000 Operations
	Mechanical	10,000,000 Operations

Specifications

Coil Data		
Nominal Coil Power		360mW, 450mW
General Data		
Insulation Resistance		Minimum 1,000MΩ 500V dc
Dielectric Strength	Between Open Contacts	750V ac,1 Min
	Between Coil and Contacts	1,500V ac,1 Min
Operate Time		Maximum 10ms
Release Time		Maximum 5ms
Operating Temperature		-40 to +85°C
Humidity		35 to 95% RH, +40°C
Shock Resistance	Endurance	1,000m/s ²
	Misoperation	100m/s ²
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	55	3.5	0.5	450	HRS4-S-DC5V-C
12	320	8.4	1.2		HRS4-S-DC12V-C
24	1280	16.8	2.4		HRS4-S-DC24V-C

Outline

19.0 ± 0.3

15.5 ± 0.3

15.8 ± 0.3

0.4 ± 0.1

2.0 ± 0.3

0.5 ± 0.1

1.0 ± 0.1

12.2 ± 0.3

3.5 ± 0.3

0.5 ± 0.1

0.9 ± 0.1

12.0 ± 0.3

Mounting Hole Layout (Bottom View)

1.75 ± 0.3

5- $\varnothing 1.3^{+0.1}_0$

12.0 ± 0.1

2.0 ± 0.1

12.2 ± 0.1

3.5 ± 0.3

Wiring Diagram (Bottom View)

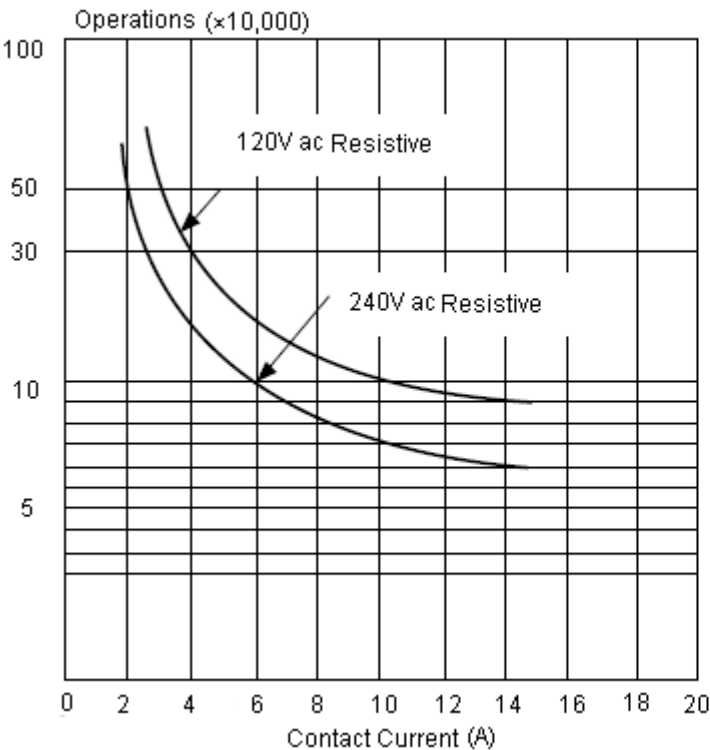
Dimensions : Millimetres

A line graph showing the relationship between Coil Power (W) on the x-axis and Temperature Rise (°C) on the y-axis. The x-axis ranges from 0 to 0.5 with major grid lines every 0.1 units. The y-axis ranges from 0 to 80 with major grid lines every 10 units. A straight line starts at the origin (0,0) and passes through points (0.1, 10), (0.2, 20), (0.3, 30), (0.4, 40), and (0.5, 50).

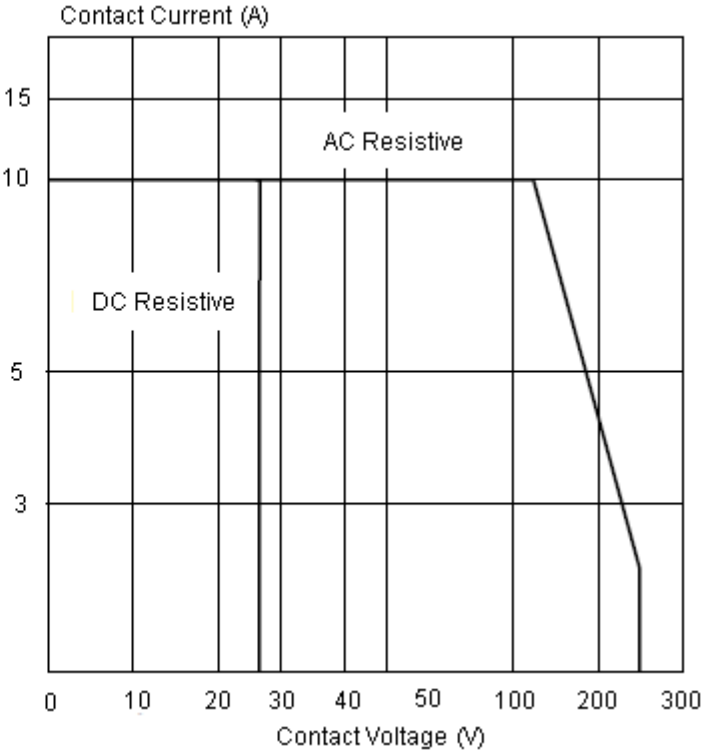
Coil Power (W)	Temperature Rise (°C)
0.0	0
0.1	10
0.2	20
0.3	30
0.4	40
0.5	50

Characteristic Chart Data

Life Curves



Maximum Switching Power



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