# HRS4 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 : 360 to 450 mW.

### **Contact Data:**

Contact Arrangement : 1 Form A , 1 Form C.

Contact Material : AgCdo.

Contact Rating : 10A 120V ac/24V dc (1C).

15A 120V ac/24V dc (1A).

Maximum Switching Voltage : 110V dc/240V ac.

Maximum Switching Current : 15A.

 $\begin{tabular}{lll} Maximum Switching Power & : 1800VA \ , 360W. \\ Contact Resistance (Initial) & : 50m\Omega \ at 6V \ dc \ 1A. \\ \end{tabular}$ 

Life Expectancy Electrical : 100,000 operations at nominal load

Mechanical : 10,000,000 operations.

## **General Data:**

Minimum Insulation Resistance :  $100M\Omega$  at 500V dc.

Dielectric Strength : 750V ac, 1 minute between open contacts

1,500V ac, 1 minute between contacts and coil.

Maximum Operate Time : 8ms.

Maximum Release Time : 5ms.

Operating Temperature Range : -30°C to +85°C.

Shock Resistance : 10G.

Vibration Resistance : 10 - 55Hz , Amplitude 1.5mm.

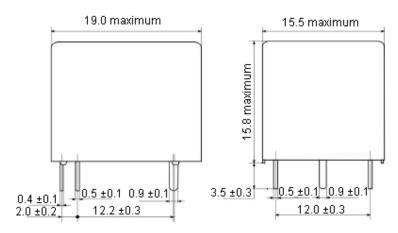
http://www.farnell.com http://www.newark.com http://www.cpc.co.uk

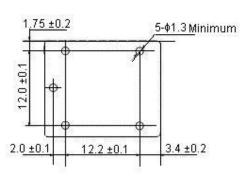


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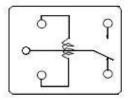


# **Dimensions**

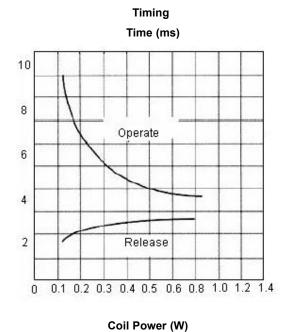


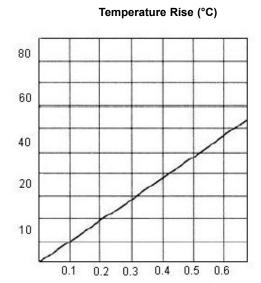


Dimensions: Millimetres



# **HRS4 Characteristic Data**





Coil Power (W)

**Coil Temperature Rise** 

http://www.farnell.com

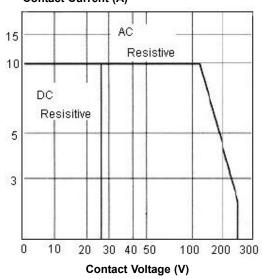


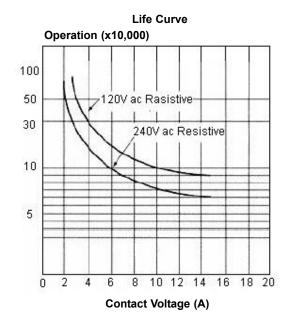
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Maximum Switching Power Contact Current (A)

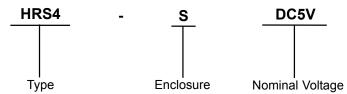




# **Specification Table**

Туре	Coil Nominal (V dc)	Coil Resistance (Ω ±10%)	Operate Voltage (V dc)	Release Voltage (V dc)	Coil Nominal (mW)	Part Number
SPCO	5	50	3.75	0.50	450	HRS4-S DC5V
	12	320	9.00	1.20		HRS4-S-DC12V
	24	820	18.00	2.40		HRS4-S DC24V

## Part Number Explanation:



Enclosure : S = Washable.

Coil Voltage : DC5V = 5, DC12V = 12 and DC24V = 24.

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