

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.
Maximum Switching Power : 1800VA , 360W.
Contact Resistance (Initial) : 50m Ω at 6V dc 1A.
Life Expectancy Electrical : 100,000 operations at nominal load
Mechanical : 10,000,000 operations.

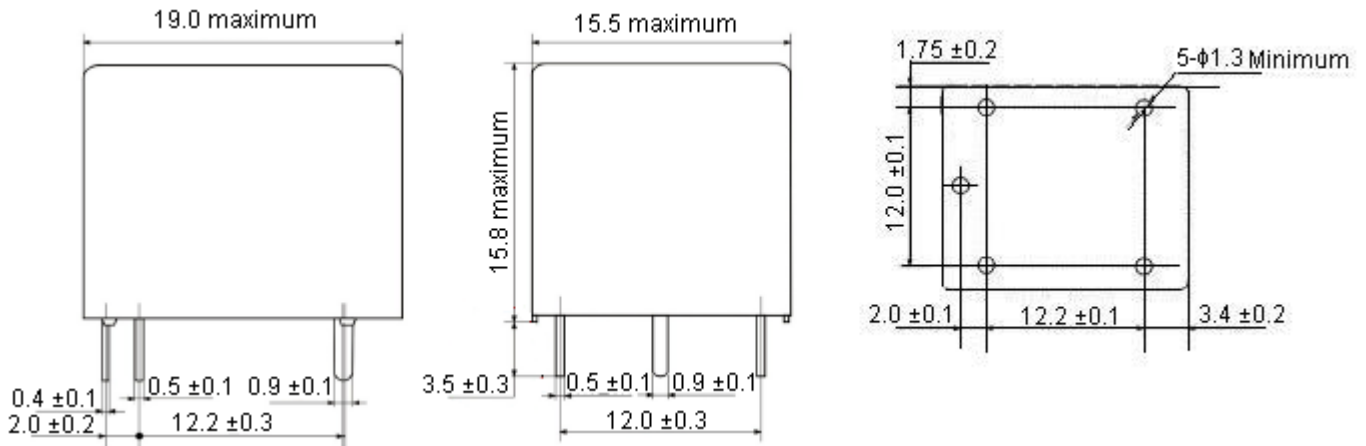
General Data:

Minimum Insulation Resistance : 100M Ω 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.

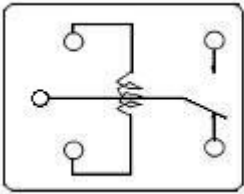
HRS4 Series PCB Power Relays



Dimensions

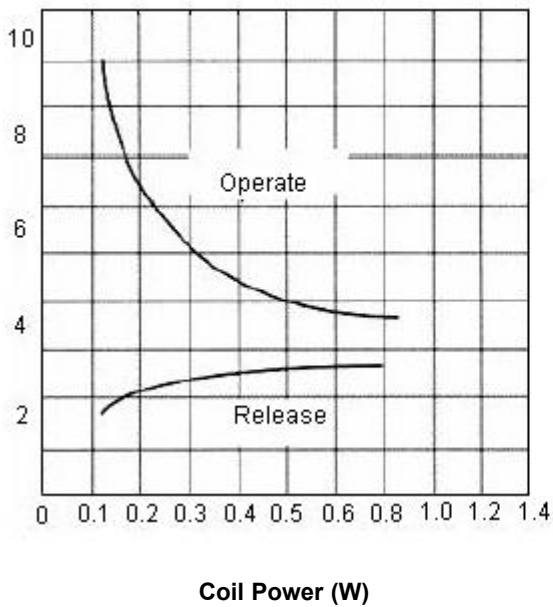


Dimensions : Millimetres

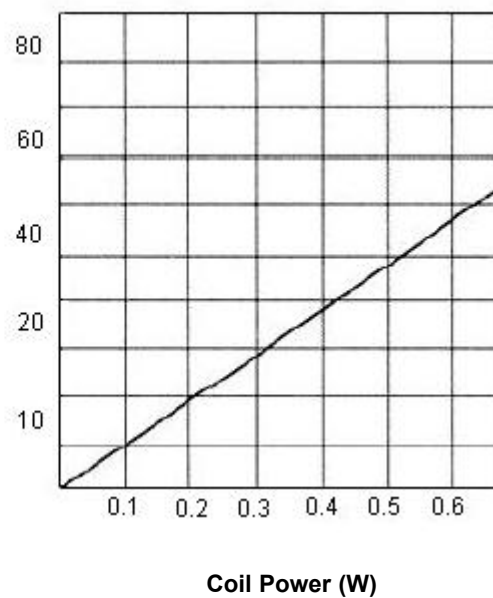


HRS4 Characteristic Data

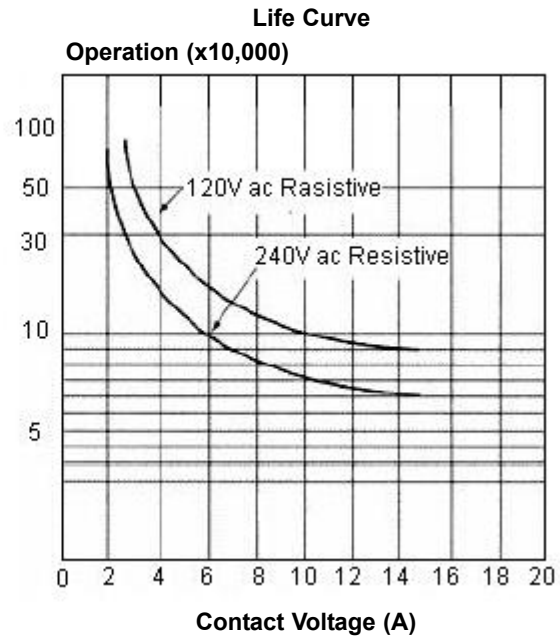
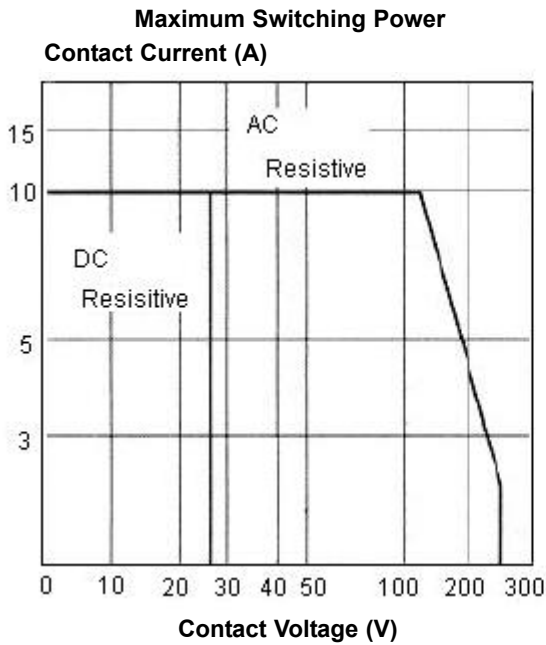
Timing
Time (ms)



Coil Temperature Rise
Temperature Rise (°C)



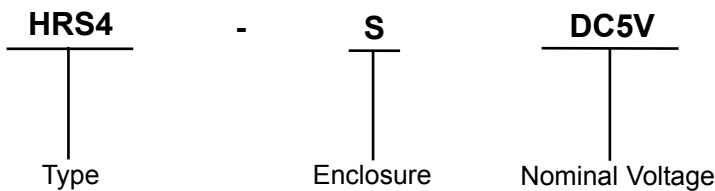
HRS4 Series PCB Power Relays



Specification Table

Type	Coil Nominal (V dc)	Coil Resistance ($\Omega \pm 10\%$)	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.

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2010.