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.

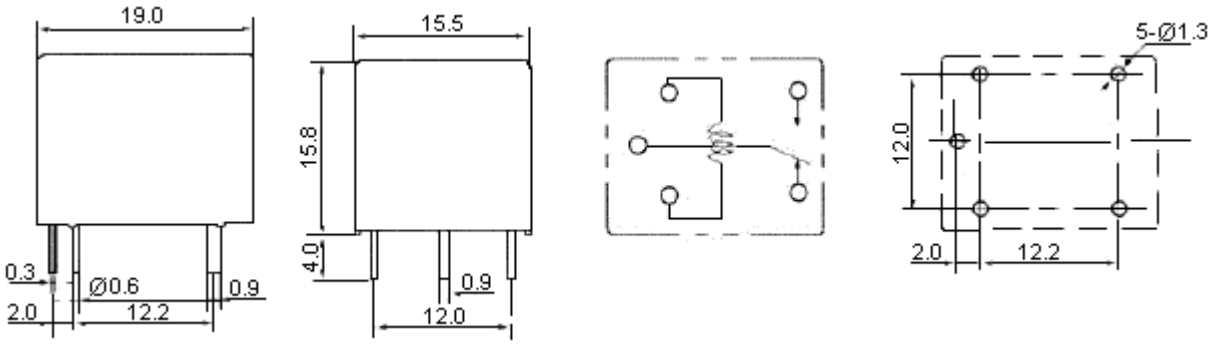
Contact Data:

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)	: 50mΩ at 6V dc 1A.
Life Expectancy Electrical	: 100,000 operations at nominal load
Mechanical	: 10,000,000 operations.

General Data:

Minimum Insulation Resistance	: 100MΩ 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.

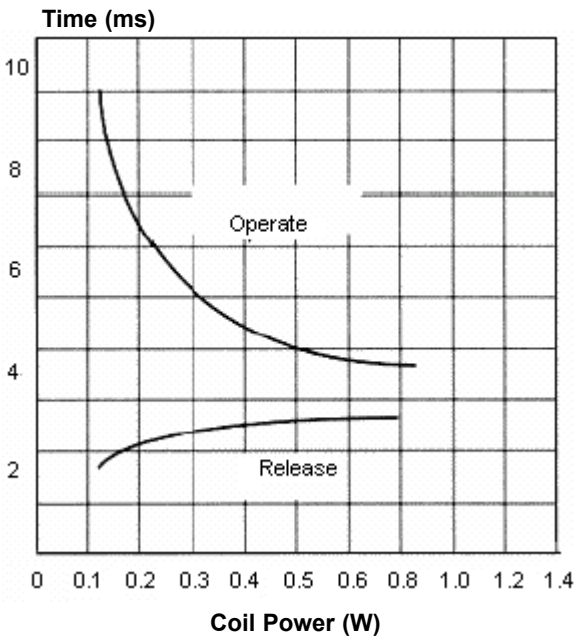
Dimensions



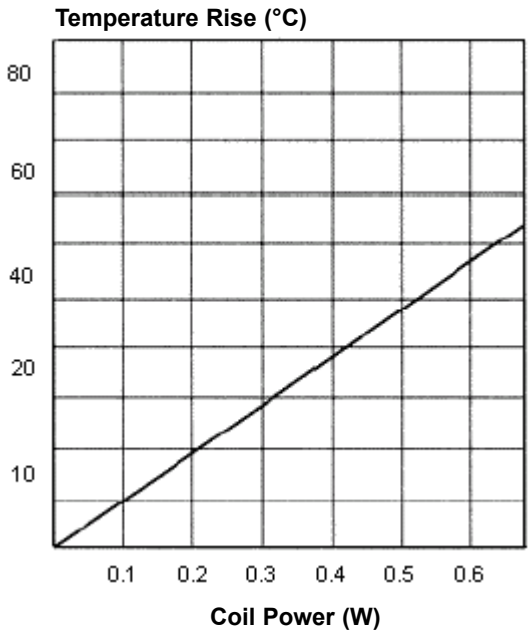
Dimensions : Millimetres

HRS4 Characteristic Data

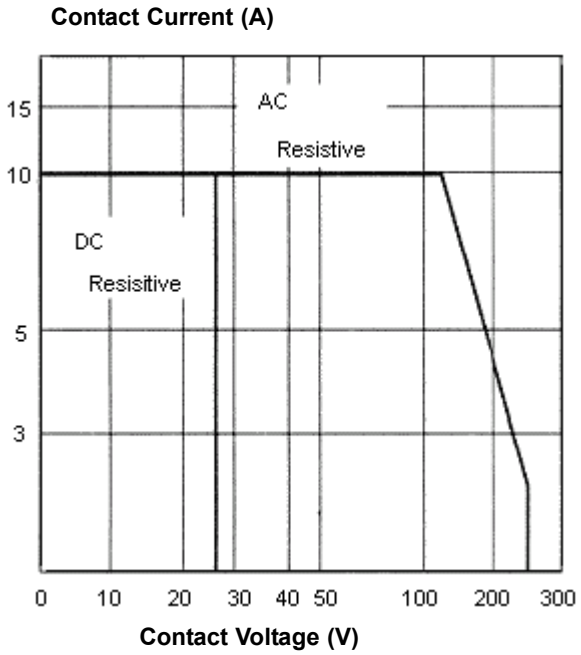
Timing



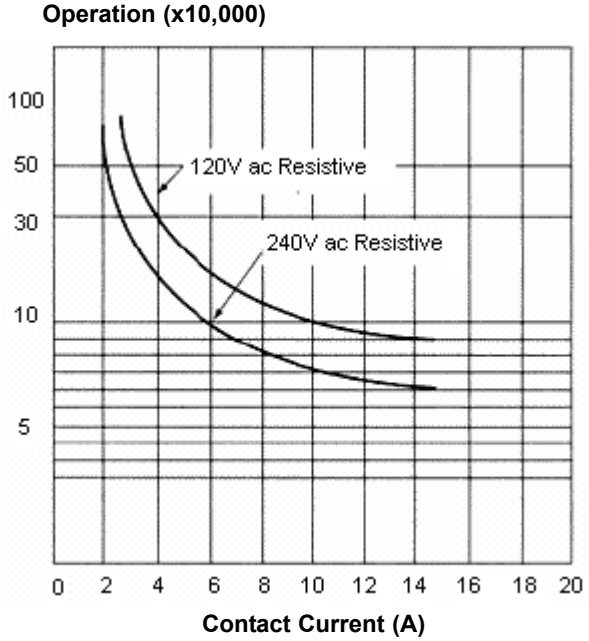
Coil Temperature Rise



Maximum Switching Power



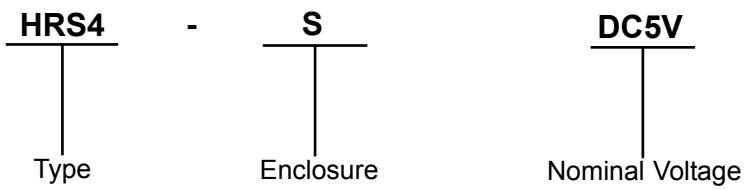
Life Curve



Specification Table

Type	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.
Nominal Voltage : DC5V = 5V, DC12V = 12V, DC24V = 24V.

Notes:

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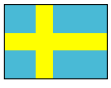

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