HRA Series Subminiature Power Relays

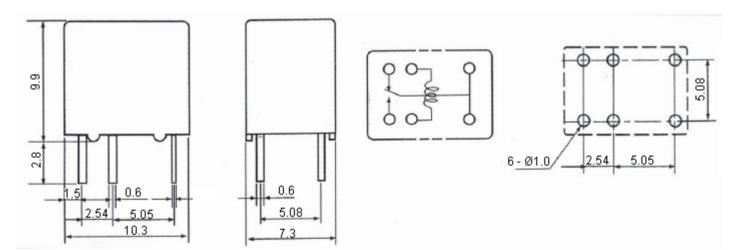




Features:

- SPCO series of relays.
- Small size and light weight.
- Plastic sealed (washable).
- DIL pitch terminal.

Dimensions



Dimensions : Millimetres

Specifications:

Contact Data

Contact arrangement Contact material Maximum switching voltage Maximum switching current Maximum switching power

- : SPCO (1 Form C).
- : AuAg.
- : 30V dc/120V ac.
- : 2.0A.
- : 120VA/30W.

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Specifications:

Contact resistance	: 50mΩ.
Life expectancy	: Electrical : 100,000 operations.
Mechanical	: Mechanical : 10,000,000 operations.

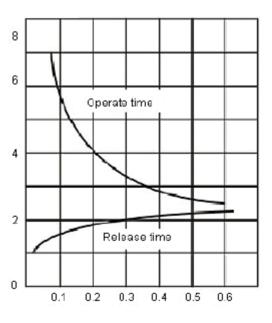
General Data

Minimum insulation resistance	: 100ΜΩ.		
Dielectric strength	: 500V ac, 1 minute between open contacts		
	1,000V ac, 1 minute, contacts and coil.		
Maximum operate time	: 6ms.		
Maximum release time	: 4ms.		
Operating temperature range	: -25 to +70°C.		
Shock resistance	: Endurance : 1000m/s ^{2.}		
	: Misoperation : 100m/s ² .		
Vibration resistance	: Endurance : 10 to 55Hz, 1.5mm double amplitude.		
	: Misoperation : 10 to 55Hz, 1.5mm double amplitude.		
Heating	: 80 ±2°C 96 hours.		
Cold	: -40 ±2°C 96 hours.		
Humidity	: 85% RH.		

HRA(H) Characteristic Data:

Timing





Coil Power (W)

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Temperature Rise (°C)

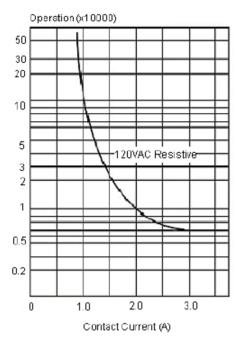
Coil Power (W)



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Life Curve

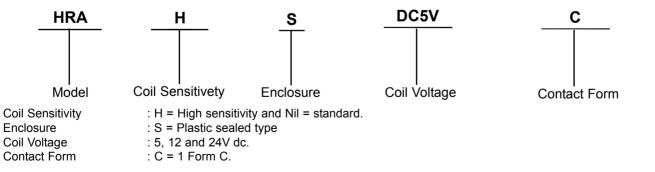


Maximum Switching Power Contact Current (A) 5 3 2 1 AC Resistive 0.5 **DC Resistive** 0.4 0.3 0.2 200 0 10 20 30 40 50 100 Contact Voltage (V)

Coil Data Chart

Description	Nominal Voltage (V dc)	Coil Resistance (Ω ±10%)	Operating Voltage (≤ V dc)	Coil Resistance Voltage (≥ V dc)	Coil Consumption (mW)	Part Number
Relay, PCB, SPCO, 5V DC	5	55	3.5	0.5	450	HRA-S-DC5V-C
Relay, PCB, SPCO, 12V DC	12	320	8.4	1.2		HRA-S-DC12V-C
Relay, PCB, SPCO, 24V DC	24	1280	16.8	2.4		HRA-S-DC24V-C
Relay, PCB, SPCO, 5V DC	5	75	3.5	0.5	300	HRAH-S-DC5V-C
Relay, PCB, SPCO, 12V DC	12	440	8.4	1.2		HRAH-S-DC12V-C
Relay, PCB, SPCO, 24V DC	24	1515	16.8	2.4	380	HRAH-S-DC24V-C

Part Number Explanation:



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