

HRA Series

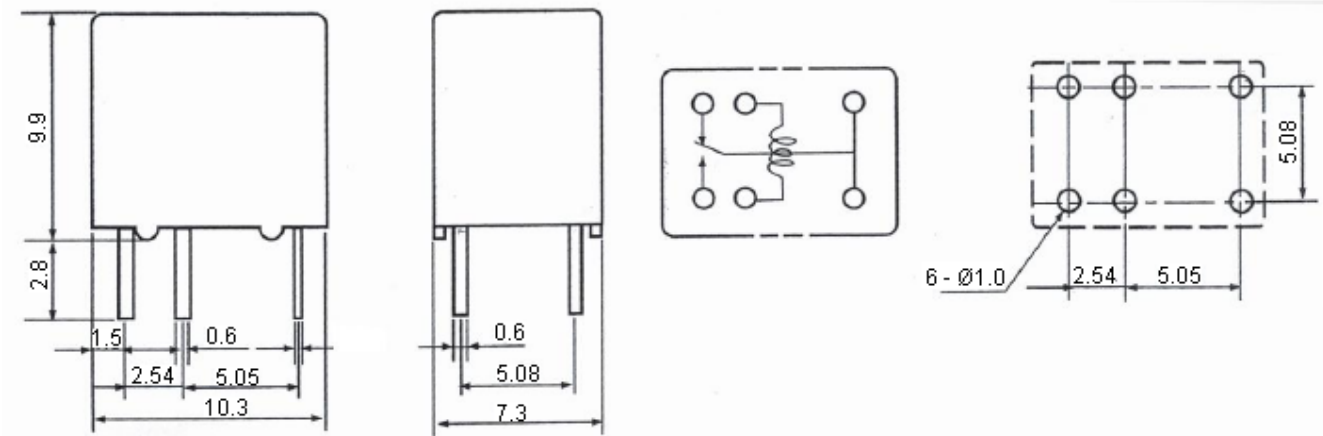
Subminiature Power Relays



Features:

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

Dimensions



Dimensions : Millimetres

Specifications:

Contact Data

Contact arrangement	: SPCO (1 Form C).
Contact material	: AuAg.
Maximum switching voltage	: 30V dc/120V ac.
Maximum switching current	: 2.0A.
Maximum switching power	: 120VA/30W.

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<http://www.newark.com>
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HRA Series

Subminiature Power Relays



Specifications:

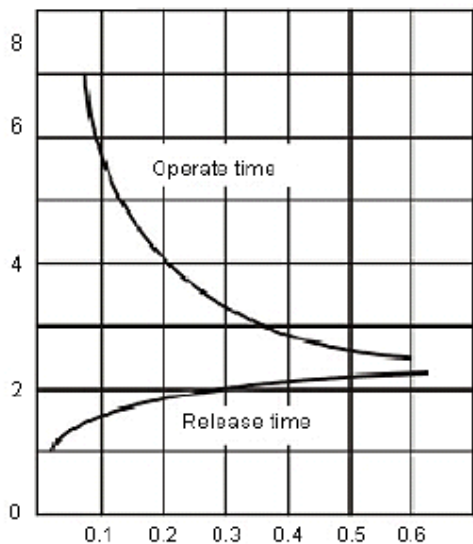
Contact resistance : 50mΩ.
Life expectancy : Electrical : 100,000 operations.
Mechanical : Mechanical : 10,000,000 operations.

General Data

Minimum insulation resistance : 100MΩ.
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/s².
Misoperation : 100m/s².
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.

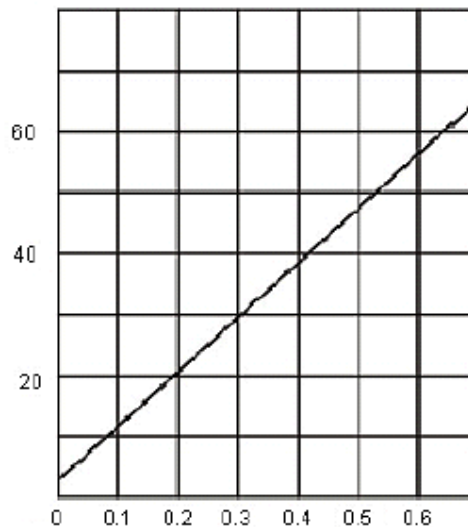
HRA(H) Characteristic Data:

Timing
Time (ms)



Coil Power (W)

Coil Temperature Rise
Temperature Rise (°C)



Coil Power (W)

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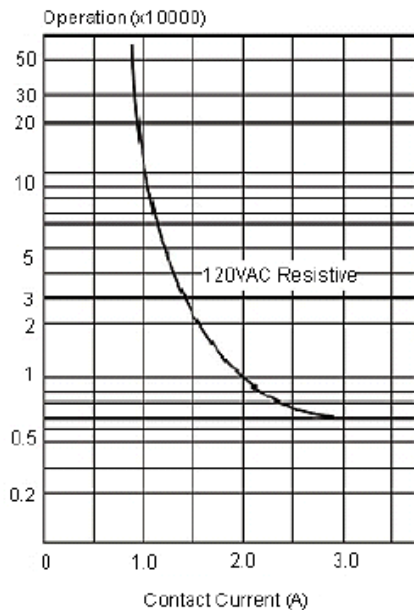


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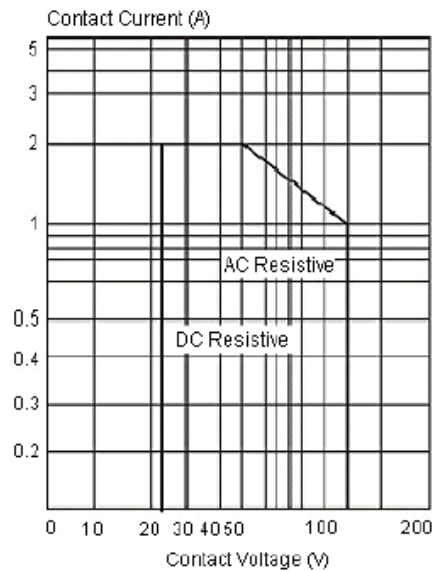
Subminiature Power Relays



Life Curve



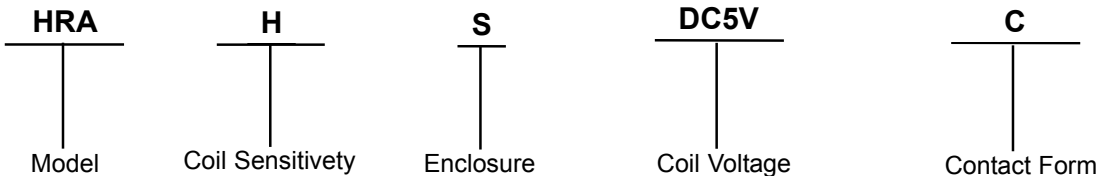
Maximum Switching Power



Coil Data Chart

Description	Nominal Voltage (V dc)	Coil Resistance ($\Omega \pm 10\%$)	Operating Voltage ($\leq V$ dc)	Coil Resistance Voltage ($\geq V$ 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		HRAH-S-DC24V-C

Part Number Explanation:



Coil Sensitivity : H = High sensitivity and Nil = standard.
 Enclosure : S = Plastic sealed type
 Coil Voltage : 5, 12 and 24V dc.
 Contact Form : C = 1 Form C.

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