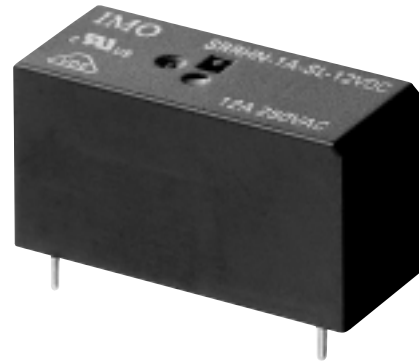


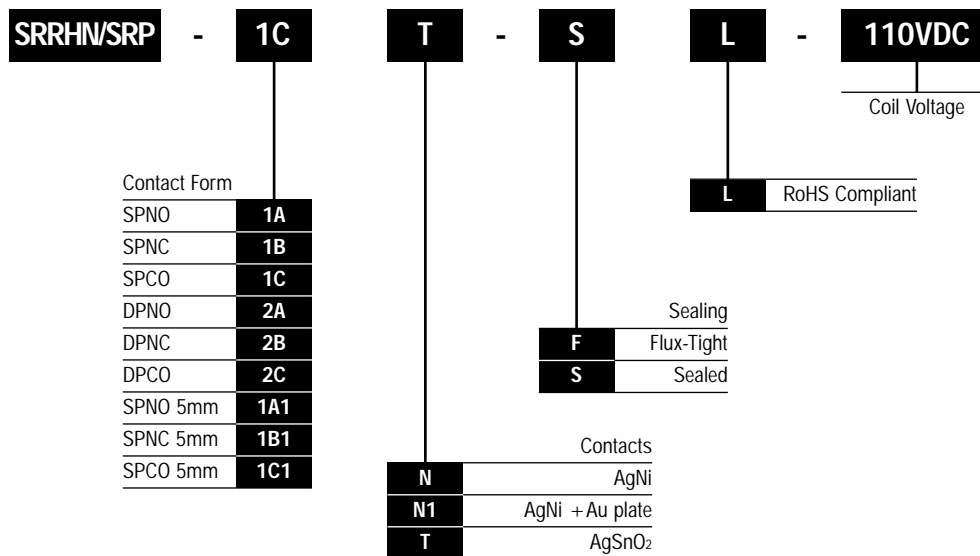
Miniature High Power Relay SRRHN/SRP



- Low height 15.7mm
- 16A switching capabilities
- 1 & 2 pole configuration
- 5KV dielectric coil to contacts
- Creepage distance 10mm
- Sealed & Flux-Tight construction



Ordering information



Contact Data

Contact Arrangement	1A, 1B, 1C	2A, 2B, 2C
Initial contact resistance Max.	50mΩ (at 1A 6VDC)	
Contact Material	See ordering info	
Contact Rating (Res. Load)	12A/16A, 250VAC	8A 250VAC
Max. switching voltage	440VAC/125VDC	
Max. switching current	12A/16A	8A
Max. switching power	3000VA/4000VA	2000VA
Mechanical Life	1x10 ⁷ OPS	
Electrical Life	1x10 ⁵ OPS	

Coil

Coil power	0.4W/0.48W
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Characteristics

Initial Insulation Resistance	1000MΩ 500VDC	
Dielectric Strength	Between coil & contacts	5,000VAC 1min.
	Between open contacts	1,000VAC 1min.
	Between contact sets	2,500VAC 1min.
Surge voltage between coil and contacts	10KV (1.2x 50μs)	
Operate time (at nomi. Volt)	Max. 15ms	
Release time (at nomi. Volt)	Max. 8ms	
Temperature rise (at nomi. Volt)	55 °C	
Shock Resistance	Functional	100m/s ²
	Destructive	1000m/s ²
Vibration Resistance	10 to 150Hz 10g/5g	
Humidity	35% to 85%	
Ambient Temp	-40 °C to +85 °C	
Termination	PCB	
Unit Weight	13.5g	
Construction	Sealed and Flux-Tight	

Miniature High Power Relay

SRRHN/SRP continued



Coil Data

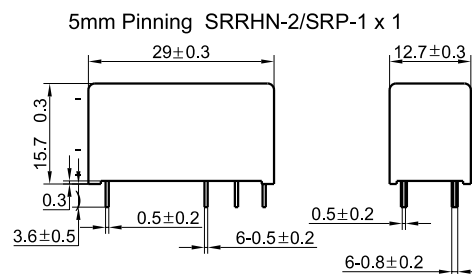
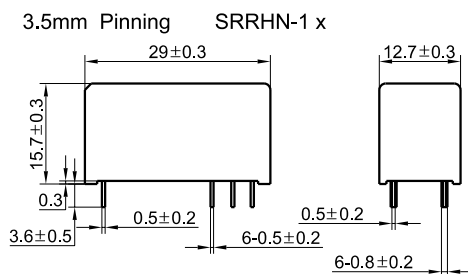
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage (at 25°C)	Coil Resistance Ω
5	3.50	0.5	7.5	62 ± 10%
6	4.20	0.6	9.0	90 ± 10%
9	6.30	0.9	13.5	202 ± 10%
12	8.40	1.2	18	360 ± 10%
18	12.60	1.8	27	810 ± 10%
24	16.80	2.4	36	1,440 ± 10%
48	33.60	4.8	72	5,760 ± 10%
60	42.00	6.0	90	7,500 ± 10%
110	77.00	11.0	165	25,200 ± 10%

Safety Approval Ratings

AgNi	SRRHN-(2A/2C)N-(,S)	5A 400VAC @85°C
		8A 250VAC @85°C
	SRP-(1A1,1C1)N-(,S)	9A 250VAC cos phi=0.4 @70°C
		16A 250VAC @85°C
AgSnO ₂	SRRHN-1A(x) N-(,S)	12A 250VAC @85°C
		10A 250VAC @85°C
	SRRHN-(1A/1C)(x)T-(,S)	12A 250VAC @85°C
	SRP-(1A1,1C1)T-(,S)	16A 250VAC @85°C
		9A 250VAC cos phi=0.4 @70°C
		8A 250VAC @85°C

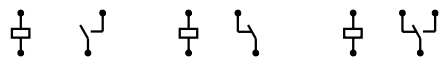
Outline dimensions (mm)

Wiring diagram and PC Board layout

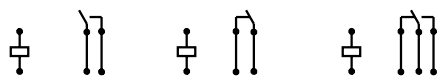


Wiring Diagram

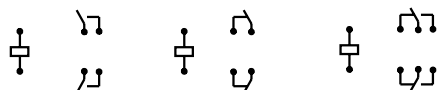
3.5/5mm 1 Pole 12A SRRHN-1 x
SRRHN-1 x 1



5mm 1 Pole 16A SRP-1 x 1

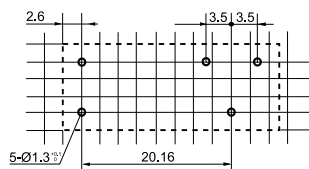


5mm 2 Pole 8A SRRHN-2 x

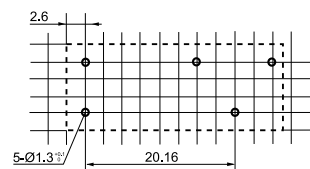


PCB layout (T=2.52±0.02mm)

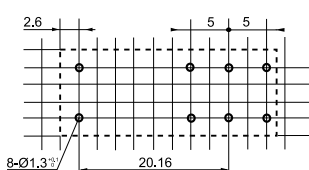
3.5mm 1 Pole 12A



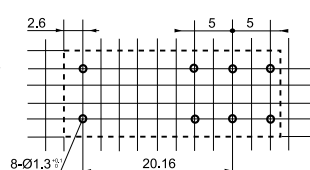
5mm 1 Pole 12A



5mm 1 Pole 16A



5mm 2 Pole 8A



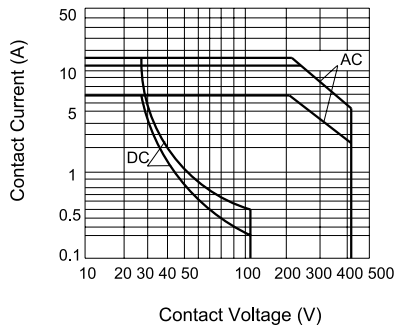
Miniature High Power Relay

SRRHN/SRP continued

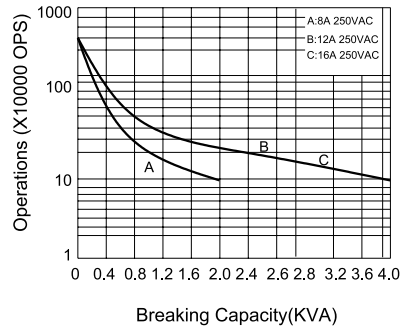


Characteristic Curve

MAXIMUM SWITCHING POWER



LIFE CURVE



COIL OPERATING RANGE(DC)

