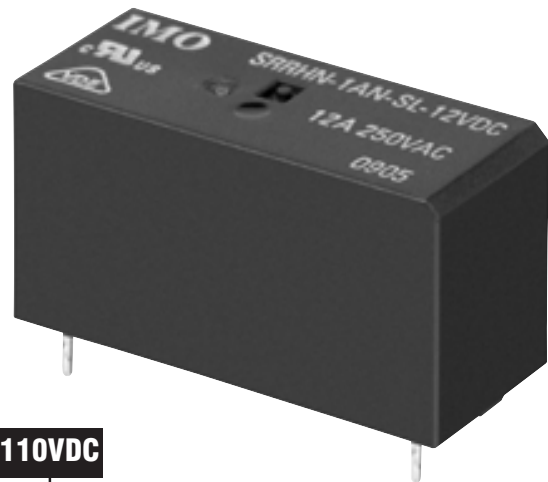


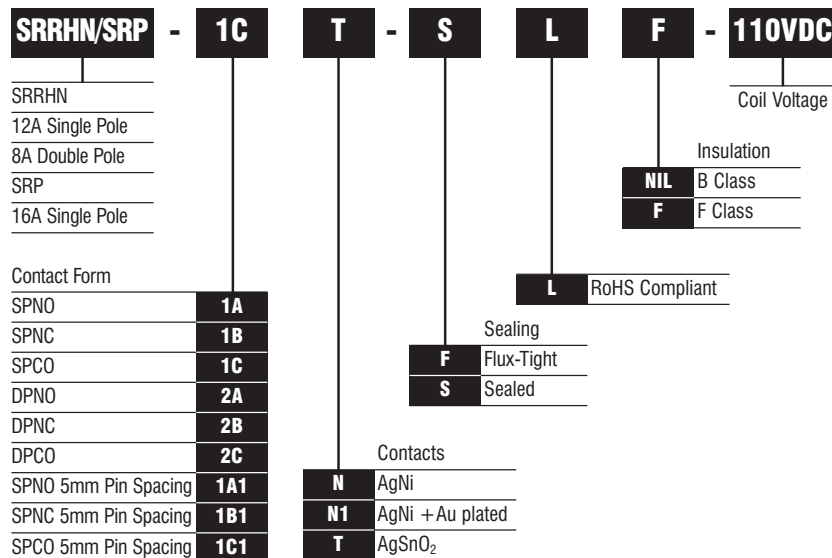
Miniature High Power Relay SRRHN/SRP



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



Options and ordering codes



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/24VDC	8A 250VAC/24VDC
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 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%

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 temperature	-40 °C to +85 °C	
Termination	PCB	
Unit Weight	13.5g	
Construction	Sealed IP67 and Flux-Tight	

Coil

Coil power	0.4W
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Miniature High Power Relay SRRHN/SRP



Safety Approval Ratings UL

AgSnO ₂	1 Pole 3.5 and 5mm Pin Pitch (SRRHN)	12A 277VAC
AgNi	1 Pole 3.5 and 5mm Pin Pitch (SRRHN)	12A 277VAC
AgSnO ₂	1 Pole 5mm Pin Pitch (SRP)	16A 277VAC
AgNi	1 Pole 5mm Pin Pitch (SRP)	16A 277VAC
AgSnO ₂ /AgNi	2 Pole (SRRHN)	8A 277VAC

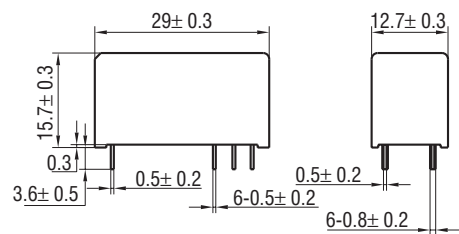
Safety Approval Ratings VDE

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

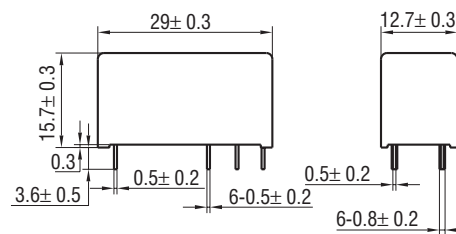
Outline dimensions (mm)

Wiring diagram and PC Board layout

3.5mm Pinning SRRHN-1 x

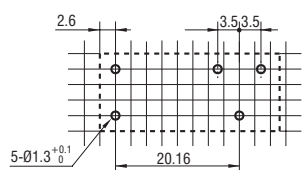


5mm Pinning SRRHN-1x1, SRRHN-2, SRP-1x1

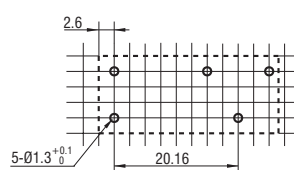


PCB layout (T=2.52±0.02mm)

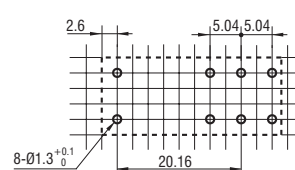
3.5mm 1 Pole 12A



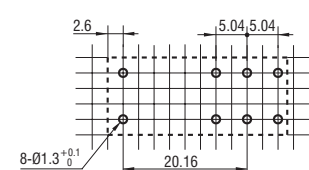
5mm 1 Pole 12A



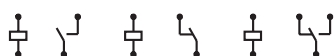
5mm 1 Pole 16A



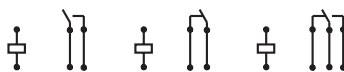
5mm 2 Pole 8A



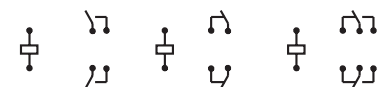
3.5/5mm 1 Pole 12A SRRHN-1 x
SRRHN-1 x 1



5mm 1 Pole 16A SRP-1 x 1



5mm 2 Pole 8A SRRHN-2 x



Characteristic Curve

