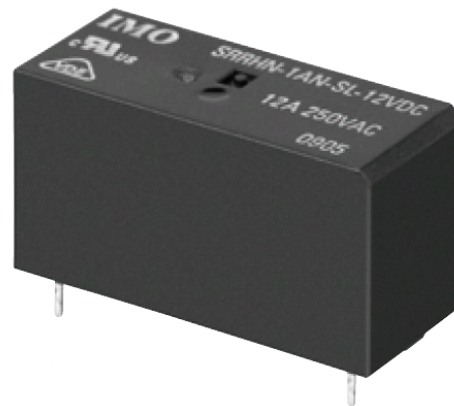


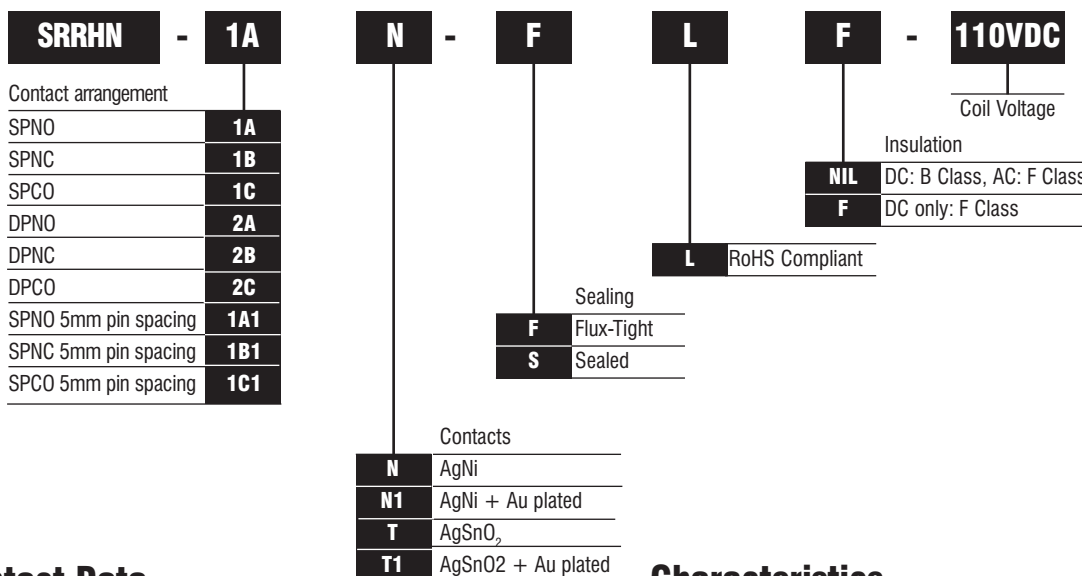
Miniature High Power Relay SRRHN



- Low height 15.7mm
- 1 and 2 pole configuration
- 5KV dielectric strength (between coil and contacts)
- 12A switching capabilities
- Creepage distance 10mm
- Sealed IP67 and flux proof types available
- Outline Dimensions: 29.0 x 12.7 x 15.7mm



Options and ordering codes



Contact Data

| | | |
|---------------------------------|--------------------|-----------------------|
| Contact Arrangement | 1A, 1B, 1C | 2A, 2B, 2C |
| Initial contact resistance max. | 100mΩ (at 1A 6VDC) | |
| Contact Material | See ordering info | |
| Contact Rating | 12A 250VAC / 24VDC | 8A 250VAC / 24VDC |
| Max. switching voltage | 440VAC/300VDC | |
| Max. switching current | 12A | 8A |
| Max. switching power | 3000VA | 2000VA |
| Mechanical Life | DC | 1x10 ⁷ ops |
| | AC | 1x10 ⁶ ops |
| Electrical Life | DC | 1x10 ⁵ ops |
| | AC | 5x10 ⁴ ops |

Coil Data

| | Nominal Voltage VDC | Pick-up Voltage VDC | Drop-out Voltage VDC | Coil Resistance Ω |
|-----------------|---------------------|---------------------|----------------------|-------------------|
| DC version, VDC | 5 | 3.50 | 0.5 | 62±10% |
| | 6 | 4.20 | 0.6 | 90±10% |
| | 9 | 6.30 | 0.9 | 202±10% |
| | 12 | 8.40 | 1.2 | 360±10% |
| | 18 | 12.60 | 1.8 | 810±10% |
| | 24 | 16.80 | 2.4 | 1,440±10% |
| | 48 | 33.60 | 4.8 | 5,760±15% |
| | 60 | 42.00 | 6.0 | 7,500±15% |
| AC version, VAC | 110 | 77.00 | 11.0 | 25,200±15% |
| | 24 | 18.00 | 3.6 | 350±10% |
| | 115 | 86.30 | 17.30 | 8100±15% |
| | 230 | 172.50 | 34.50 | 32500±15% |

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. |
| Operate time (at nomi. Volt) DC only | Max. 15ms | |
| Release time (at nomi. Volt) DC only | Max. 8ms | |
| Temperature rise (at nomi. Volt) | DC version | 55°C |
| | AC version | 85°C |
| Vibration resistance | 10 to 150Hz 10g/5g | |
| Shock resistance | Functional | 98m/s ² |
| | Destructive | 980m/s ² |
| Humidity | 35% to 85% | |
| Ambient temperature | DC version | -40°C to +85°C |
| | AC version | -40°C to +70°C |
| Termination | PCB | |
| Unit Weight | 13.5g | |
| Construction | Sealed IP67, Flux proofed | |

Coil

| | | |
|------------|------------|--------|
| Coil power | DC version | 0.4W |
| | AC version | 0.75VA |

Miniature High Power Relay SRRHN

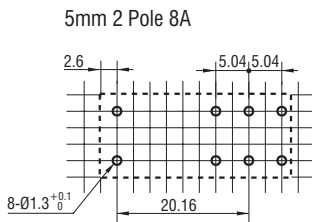
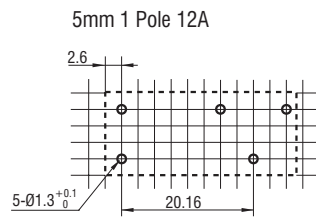
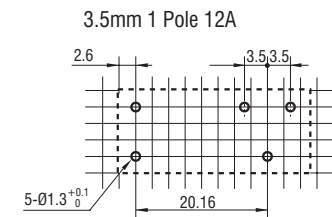


Safety Approval Ratings

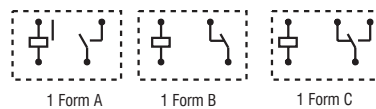
| | | |
|--------|-------------------|---------------------|
| UL/CUR | DC version 1 pole | 12A 277 VAC |
| | DC version 2 pole | 8A 277 VAC |
| | AC version 1 pole | 12A 250 VAC |
| | AC version 2 pole | 8A 250 VAC |
| VDE | DC version 1 pole | 12A 250 VAC at 85°C |
| | DC version 2 pole | 8A 250 VAC at 85°C |
| | AC version 1 pole | 12A 250 VAC |
| | AC version 2 pole | 8A 250 VAC |

Notes: Typical ratings are listed above, refer to IMO for more details

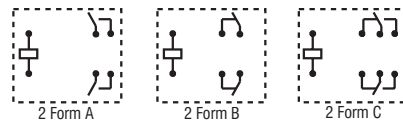
PCB layout (T=2.52±0.02mm)



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

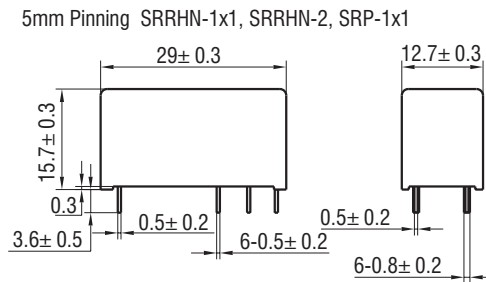
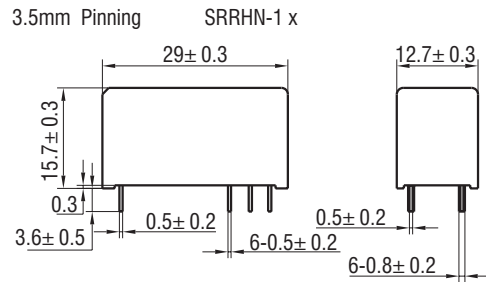


5mm 2 Pole 8A SRRHN-2 x

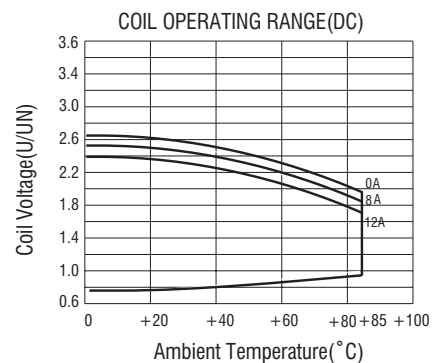
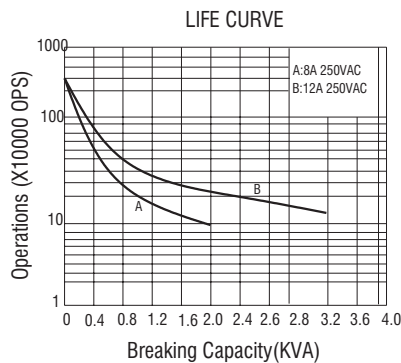
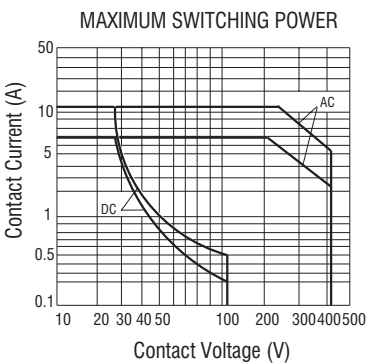


Outline dimensions (mm)

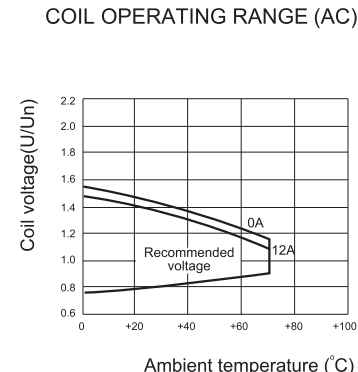
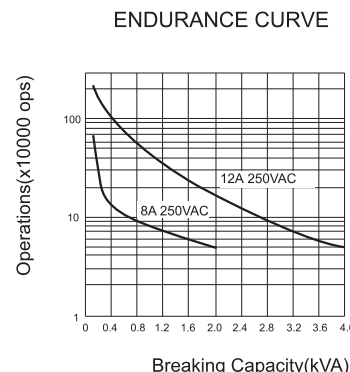
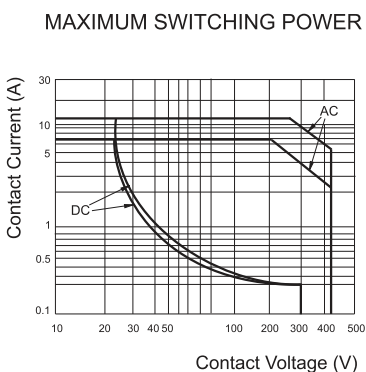
Wiring diagram and PC Board layout



Characteristic Curve (DC version)



Characteristic Curve (AC version)



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