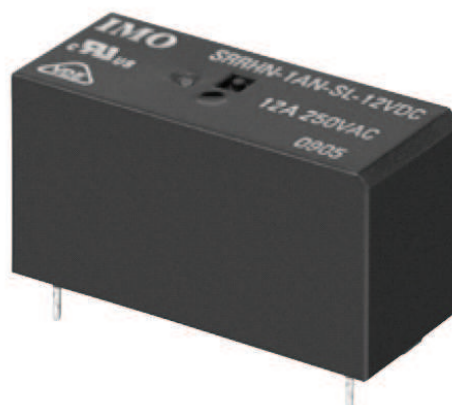


Miniature High Power Relay SRRHN



- 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

SRRHN	-	1A	N	-	F	L	F	-	110VDC
Contact arrangement			Contacts		Sealing		Coil Voltage		
SPNO		1A	N	AgNi	F	L	NIL	DC: B Class, AC: F Class	Insulation
SPNC		1B							
SPCO		1C							
DPNO		2A							
DPNC		2B							
DPCO		2C							
SPNO 5mm pin spacing		1A1	N1	AgNi + Au plated	S	L	F	DC only: F Class	RoHS Compliant
SPNC 5mm pin spacing		1B1							
SPCO 5mm pin spacing		1C1							

Contact Data

Contact Arrangement	1A, 1B, 1C	2A, 2B, 2C
Initial contact resistance max.	100m Ω (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 $\pm$ 10%
	6	4.20	0.6	90 $\pm$ 10%
	9	6.30	0.9	202 $\pm$ 10%
	12	8.40	1.2	360 $\pm$ 10%
	18	12.60	1.8	810 $\pm$ 10%
	24	16.80	2.4	1,440 $\pm$ 10%
	48	33.60	4.8	5,760 $\pm$ 15%
	60	42.00	6.0	7,500 $\pm$ 15%
	110	77.00	11.0	25,200 $\pm$ 15%
AC version, VAC	24	18.00	3.6	350 $\pm$ 10%
	115	86.30	17.30	8100 $\pm$ 15%
	230	172.50	34.50	32500 $\pm$ 15%

Characteristics

Initial Insulation Resistance		1000M Ω @ 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 $^{\circ}$ C
	AC version	85 $^{\circ}$ 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 $^{\circ}$ C to +85 $^{\circ}$ C
	AC version	-40 $^{\circ}$ C to +70 $^{\circ}$ 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

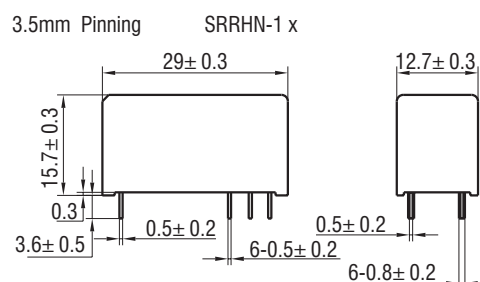
UL/CUR	DC version 1 pole	12A 277 VAC
	DC version 2 pole	8A 277 VAC
	AC version 1 pole	12A 250 VAC
	AC version 2 pole	8A 250 VAC
VDE	DC version 1 pole	12A 250 VAC at 85°C
	DC version 2 pole	8A 250 VAC at 85°C
	AC version 1 pole	12A 250 VAC
	AC version 2 pole	8A 250 VAC

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

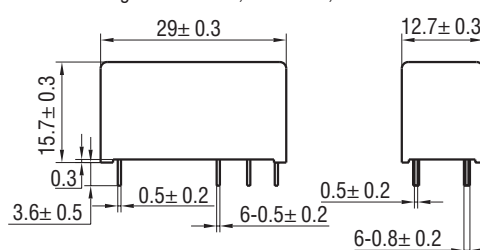
PCB layout (T=2.52±0.02mm)

Outline dimensions (mm)

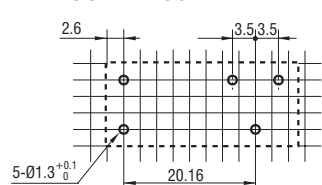
Wiring diagram and PC Board layout



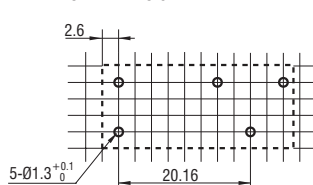
5mm Pinning SRRHN-1x1, SRRHN-2, SRP-1x1



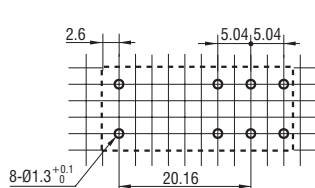
3.5mm 1 Pole 12A



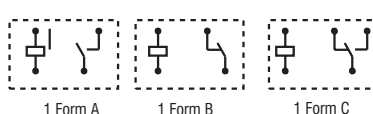
5mm 1 Pole 12A



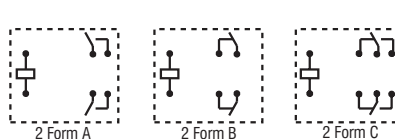
5mm 2 Pole 8A



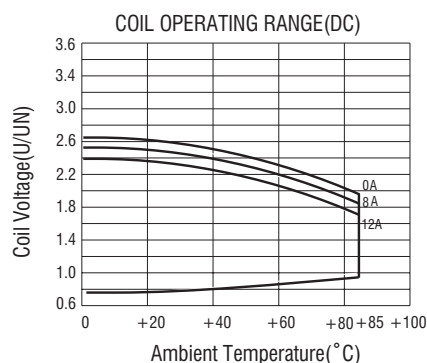
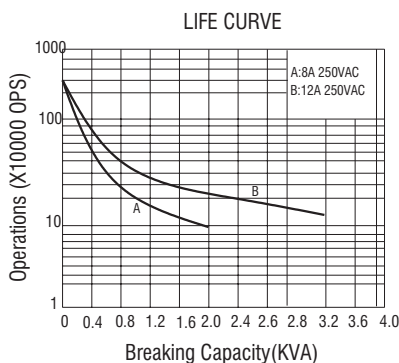
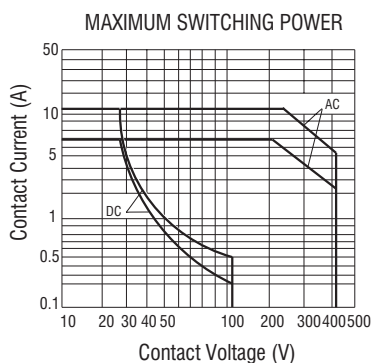
3.5/5mm 1 Pole 12A SRRHN-1 x
SRRHN-1 x 1



5mm 2 Pole 8A SRRHN-2 x



Characteristic Curve (DC version)



Characteristic Curve (AC version)

