

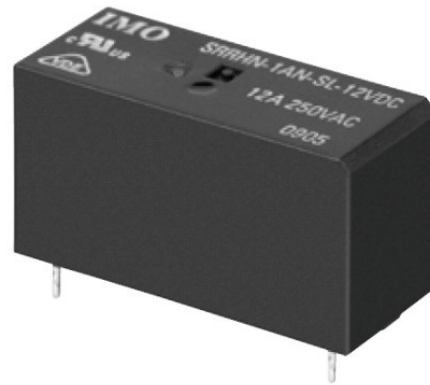
SRRHN - Miniature High Power Relay



Technical Datasheet

Key Features

- 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 & Ordering Codes

SRRHN - 1A N - S L F - 12VDC

Contact Arrangement	
SPNO	1A
SPNC	1B
SPCO	1C
DPNO	2A
DPNC	2B
DPNO	2C
SPNO 5mm pin spacing	1A1
SPNC 5mm pin spacing	1B1
SPNO 5mm pin spacing	1C1

Contacts	
AgNi	N
AgNi + Au plated	N1
AgSnO ₂	T
AgSnO ₂ + Au plated	T1

Construction	
S	Sealed
F	Flux-Tight

Insulation	
	DC: B Class, AC: F Class
F	DC Only: F Class

L	RoHS Compliant
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Technical Specification

Contact arrangement	1A, 1B, 1C	2A, 2B, 2C
Initial contact resistance max.	100mΩ max. (at 1A 6VDC)	
Contact material	See ordering information	
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	1 x 10 ⁷ OPS
	AC	1 x 10 ⁶ OPS
Electrical life	DC	1 x 10 ⁵ OPS
	AC	5 x 10 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	1440±10%
	48	33.60	4.8	5760±15%
	60	42.00	6.0	7500±15%
AC Version VAC	110	77.00	11.0	25200±15%
	24	18.00	3.6	350±10%
	115	86.30	17.3	8100±15%
	230	172.50	34.5	32500±15%

Characteristics

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	5000VAC 1min
	Between open contacts	1000VAC 1min
	Between contact sets	2500VAC 1min
Operate time (at nomi. volt.) DC only	15ms max.	
Release time (at nomi. volt.) DC only	8ms max.	
Temperature rise (at nomi. Volt)	DC version	55°C
	AC version	85°C
Vibration resistance	10Hz to 150Hz 10g/5g	
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Ambient temperature	-40°C to 85°C	
Termination	PCB	
Unit weight	13.5g	
Construction	Sealed IP67, Flux proofed	

Coil

Coil power	DC version	0.4W
	AC version	0.75VA

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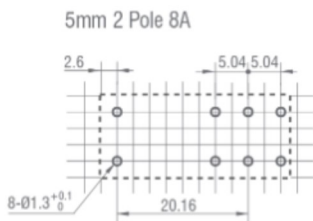
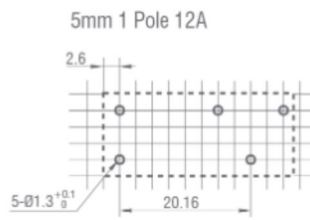
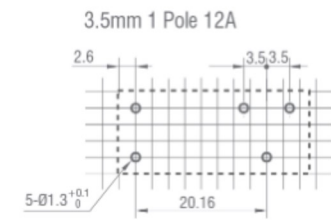
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Safety Approval Ratings

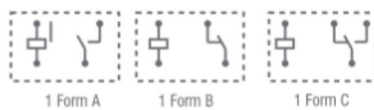
UL/CUR	DC version 1 pole	12A 277 VAC
	DC version 2 pole	8A 277 VAC
	AC version 1 pole	12A 250 VAC
	AC version 2 pole	8A 250 VAC
VDE	DC version 1 pole	12A 250 VAC at 85°C
	DC version 2 pole	8A 250 VAC at 85°C
	AC version 1 pole	12A 250 VAC
	AC version 2 pole	8A 250 VAC

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

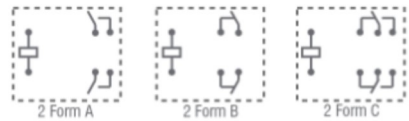
PCB layout (T=2.52±0.02mm)



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

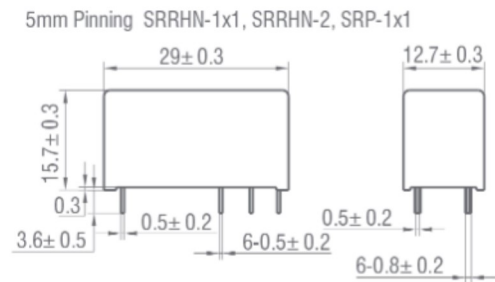
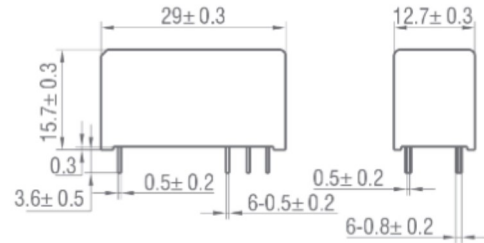


5mm 2 Pole 8A SRRHN-2 x

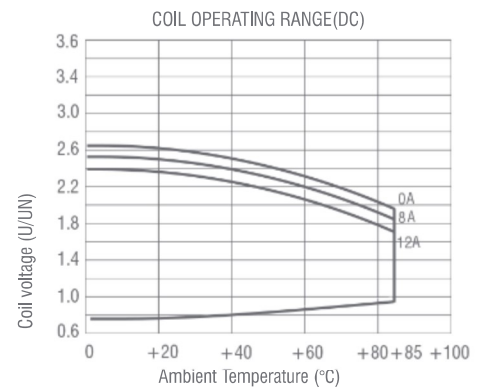
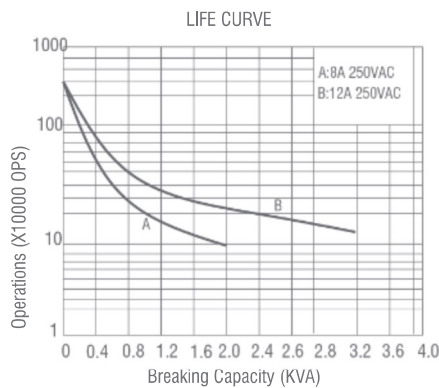
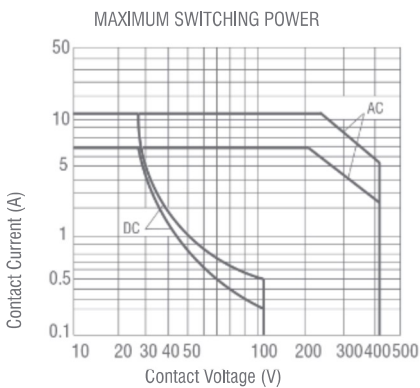


Outline dimensions (mm)

Wiring diagram and PC Board layout



Characteristic Curve (DC version)



Characteristic Curve (AC version)

