

**UL CONTACT LOAD RATINGS TABLE**

LOAD	LOAD VOLTAGE	SPST	SPDT		OPERATIONS
		N.O. LOAD	N.O. LOAD	N.C. LOAD	
GENERAL PURPOSE	240 VAC	30AMP	30AMP	15AMP	100,000
RESISTIVE	28 VDC	30AMP	30AMP	10AMP	100,000
MOTOR	125 VAC	1 HP	1 HP	1/4 HP	1,000
	240 VAC	2 HP	2 HP	1/2 HP	6,000
FLA/LRA ‡	120 VAC	22/98AMP	22/98AMP	-	100,000
	240 VAC	30/80AMP	30/80AMP	12/30AMP	30,000
TUNGSTEN	240 VAC	TV - 5	TV - 5	-	25,000
BALLAST	277 VAC	10AMP	10AMP	3AMP	6,000
PILOT DUTY	240 VAC	470 VAC	470 VAC	275 VAC	6,000

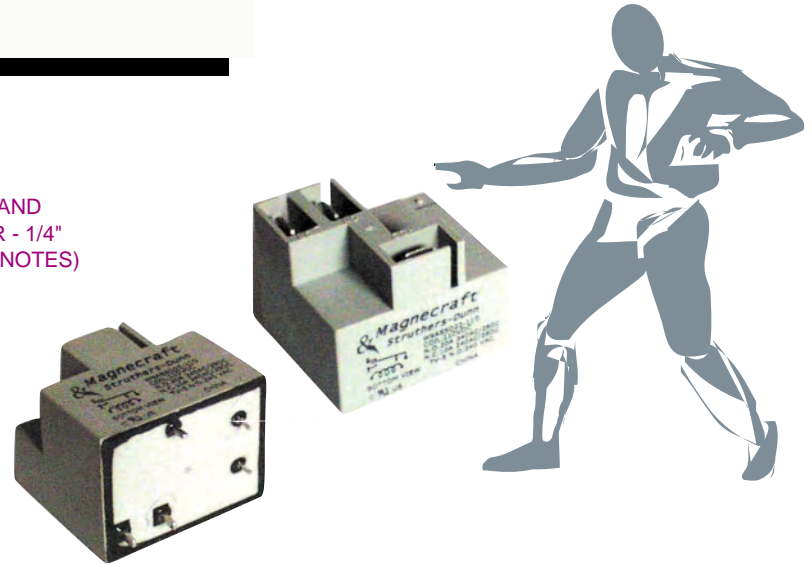
‡ FLA = Full load amps, LRA = Locked rotor amps.

**SPST-N.O. & SPDT 30 AMPS**



**CLASS "F" INSULATION.  
EPOXY SEALED WITH REMOVABLE  
TAPE SEAL OVER VENT HOLE  
(REMOVED AFTER CLEANING)**

MEETS UL 508, UL 873 AND  
UL 1950 - 1/8" THRU AIR - 1/4"  
OVER SURFACE (SEE NOTES)



**GENERAL SPECIFICATIONS**

**COIL**

Pull-in Voltage: 80% of nominal voltage or less for AC coils  
75% of nominal voltage or less for DC coils

Dropout Voltage: 10% of nominal voltage or more

Max. Coil Voltage: 120% max.

Power Consumption: AC coil: 0.95 VA, DC coil: 2.8 watts max.

Insulation System: Class "F"(155°C)

Resistance: ±10% measured @ 25°C

Duty: Continuous

**CONTACT**

Contact Material: Silver cadmium oxide

Switching Voltage: 277 VAC, 28 VDC max.

Contact Resistance: 75 milliohms @ 1 Amp rated current

Minimum Load: 1 A, 5 VDC, 12 VAC

**TIMING**

Operate Time: DC:15 mS typ. Including bounce

Release Time: DC:15mS typ. Including bounce

**DIELECTRIC STRENGTH**

Contacts to Coil: 2500 V rms

Between Open Contacts: 1500 V rms

Insulation Resistance: 1000 mΩ min. @ 500 VDC, 25°C 50% Rh

**TEMPERATURE**

Operating: -55°C to +85°C

Storage: -55°C to +130°C

**VIBRATION RESISTANCE**

Functional: 10 to 55Hz 1.65 mm max.  
No contact opening > 100 uS

**SHOCK RESISTANCE**

Functional: 10 g's for 11 mS,  
no contact opening > 100 μS

Mechanical: 100 g's

**LIFE EXPECTANCY**

Electrical: 100,000 operations @ rated resistive load

Mechanical: 10,000,000 operations @ no load

**MISCELLANEOUS**

Operating Position: Any

Enclosure: Epoxy sealed immersion cleanable suitable for automatic circuit board processing. Max. Exposure soldering temperature is 4 sec. @ 500°F.

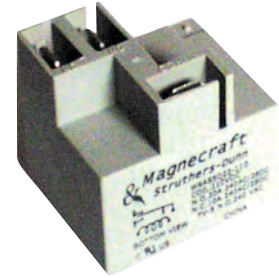
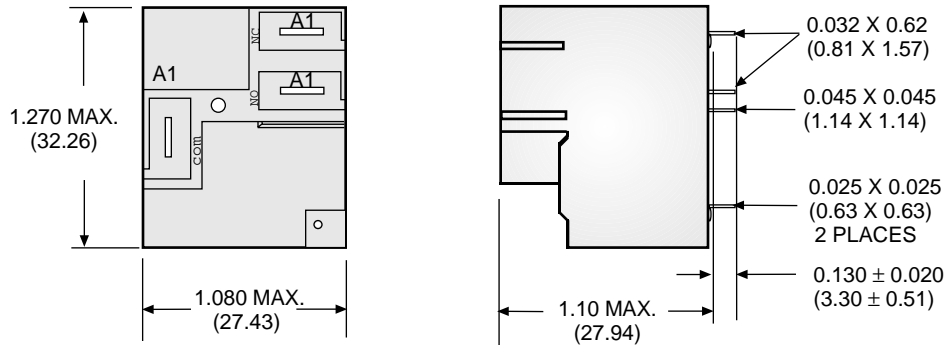
Enclosure: 94V-O flammability rating

Terminals: 1/4" quick connect & safety wells accept insulated female quick connect terminals

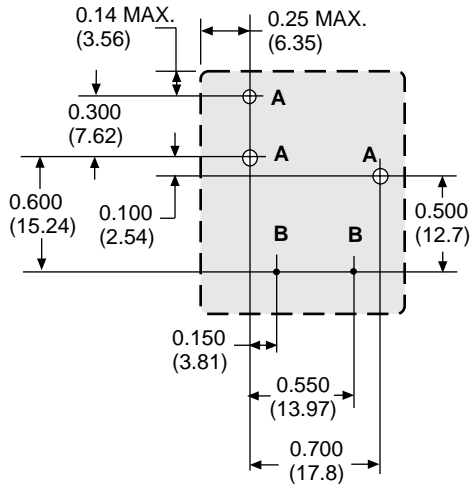
Weight: 33 grams approx

**OUTLINE DIMENSIONS**

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).

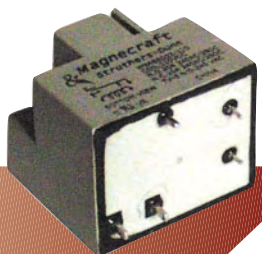
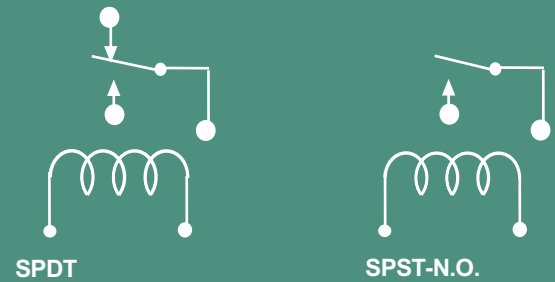


**PRINTED CIRCUIT MOUNTING HOLE LAYOUT (BOTTOM VIEW)**



**HOLE "A" = 0.081 ± 0.005 DIA. (2.06 X 0.13)**  
**HOLE "B" = 0.043 ± 0.08 DIA. (1.09 X 0.08)**

**WIRING DIAGRAM (VIEWED FROM PIN END)**



STANDARD PART NUMBERS	CONTACT CONFIGURATION	COIL MEASURED @ 25°C	
		NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)
<b>PRINTED CIRCUIT MOUNT, 30 AMP</b>			
W9AS1D22-5	SPST-NO	5 VDC	25 Ω
W9AS1D22-12	SPST-NO	12 VDC	144 Ω
W9AS1D22-24	SPST-NO	24 VDC	576 Ω
W9AS1D22-110	SPST-NO	110 VDC	12100 Ω
<b>PRINTED CIRCUIT MOUNT, 20 AMP</b>			
W9AS5D22-5	SPDT	5 VDC	25 Ω
W9AS5D22-12	SPDT	12 VDC	144 Ω
W9AS5D22-24	SPDT	24 VDC	576 Ω
W9AS5D22-110	SPDT	110 VDC	12100 Ω
<b>PRINTED CIRCUIT MOUNT, 30 AMP</b>			
W9AS1A22-24	SPST-NO	24 VAC	
W9AS1A22-120	SPST-NO	120 VAC	
W9AS1A22-240	SPST-NO	240 VAC	
<b>PRINTED CIRCUIT MOUNT, 20 AMP</b>			
W9AS5A22-24	SPDT	24 VAC	
W9AS5A22-120	SPDT	120 VAC	
W9AS5A22-240	SPDT	240 VAC	