

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.

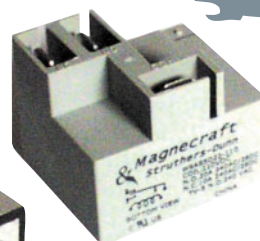
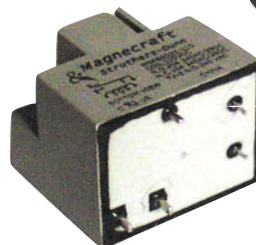
SPST-N.O. & SPDT 30 AMPS

UL us
UL Recognized
File No. E43641

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 μS

SHOCK RESISTANCE

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

LIFE EXPECTANCY

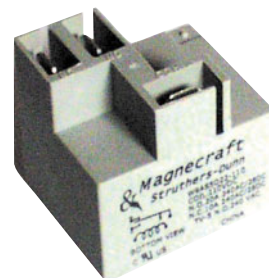
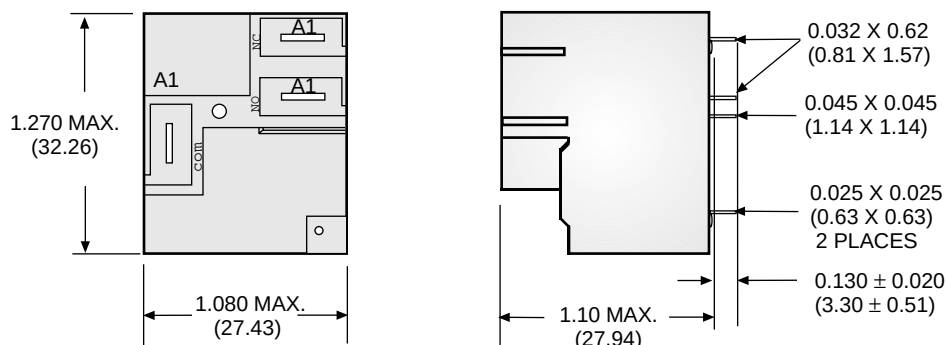
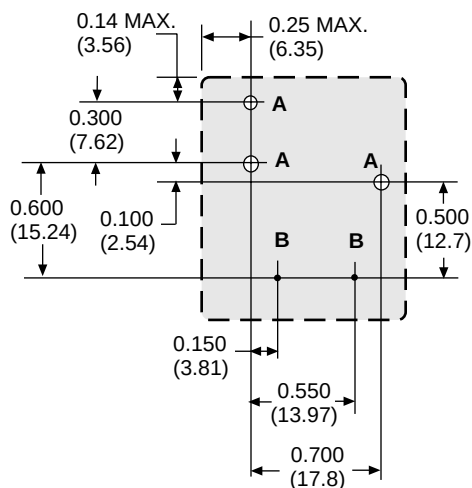
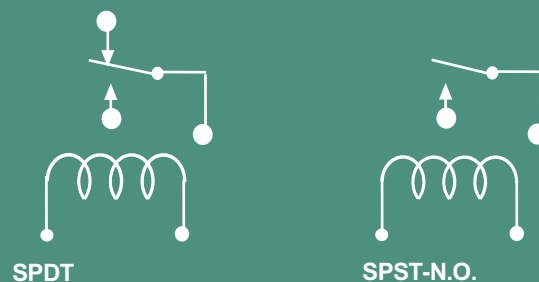
Electrical: 100,000 operations
@ rated resistive load
Mechanical: 10,000,000 operations @ no load

MISCELLANEOUS

Operating Position: Any
Enclosure: Epoxy sealed immersion cleanable
suitable for automatic circuit board
processing. Max. Exposure soldering
temperature is 4 sec. @ 500°F.
94V-O flammability rating
1/4" quick connect & safety wells accept
insulated female quick connect terminals
33 grams approx

SPST-N.O. & SPDT 30 AMPS**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 CONFIGU- RATION	COIL MEASURED @ 25°C	
		NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)
PRINTED CIRCUIT MOUNT, 30 AMP			
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
PRINTED CIRCUIT MOUNT, 20 AMP			
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
PRINTED CIRCUIT MOUNT, 30 AMP			
W9AS1A22-24	SPST-NO	24 VAC	
W9AS1A22-120	SPST-NO	120 VAC	
W9AS1A22-240	SPST-NO	240 VAC	
PRINTED CIRCUIT MOUNT, 20 AMP			
W9AS5A22-24	SPDT	24 VAC	
W9AS5A22-120	SPDT	120 VAC	
W9AS5A22-240	SPDT	240 VAC	

