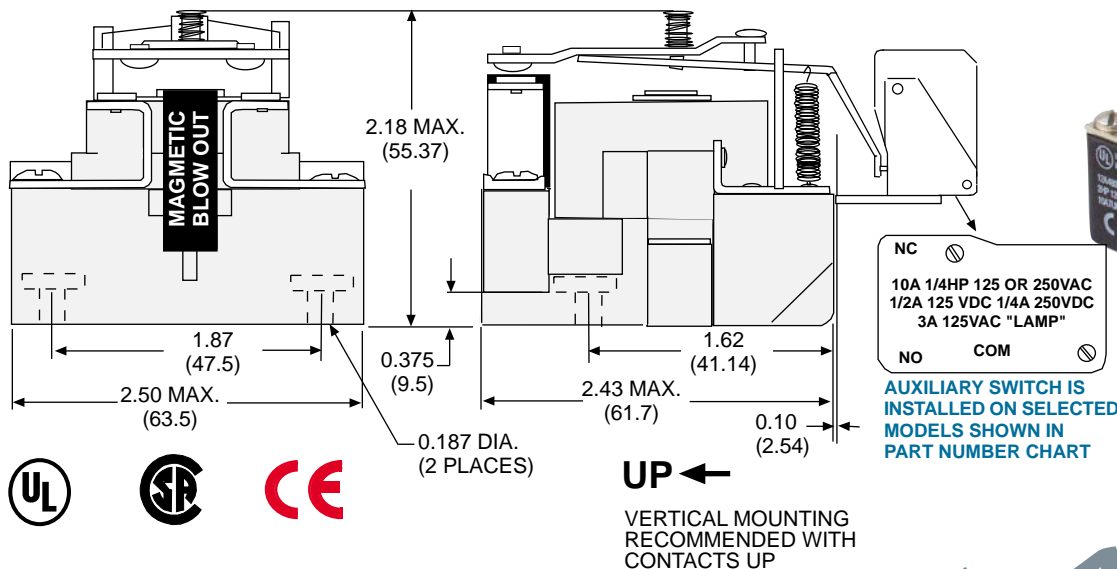


**SPST-N. O., 30 AMPS
20 AMPS @ 110 VDC**

OUTLINE DIMENSIONS
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).



Optional metal enclosure available, see page 12

AUXILIARY SWITCH IS INSTALLED ON SELECTED MODELS SHOWN IN PART NUMBER CHART



GENERAL SPECIFICATIONS

COIL

- Pull-in Voltage: 85% of nominal voltage or less for AC coils
80% of nominal voltage or less for DC coils
- Dropout Voltage: 10% of nominal voltage or more @ 25°C
- Coil Resistance: ± 10% @ 25°C
- Coil Power: 10 VA (60Hz) AC @ 25°C
- Max. Coil Dissipation: DC coils-4 watts max.
- Duty: Continuous.

CONTACTS

- Contact Material: Silver cadmium oxide, gold flashed.
5/16" diameter standard.
- Contact Rating: 30 amps up to 300 VAC, 50/60Hz
12 amps @ 480 VAC, 10 Amps @ 600 VAC,
50/60Hz 0.75 pf Inductive load. 1-1/2 Hp motor
load @ 120 thru 600 VAC, 50/60 Hz. 30 amps
@ 28 VDC resistive load
15 amps tungsten @ 120 VAC
NEMA A600 pilot duty 50/60Hz
- DC Rating: 20 Amps @ 110 VDC, resistive; 8 amps
@ 220 VDC resistive, 4 Amps @ 325VDC
resistive. 2 amps @ 500 VDC resistive.
For inductive loads, contacts must be
derated accordingly. Capacitive loads must
have current limiting to insure that inrush
current will not exceed 100 amps.
- Auxiliary Switch: 10 amps 1/4 Hp 125 or 250VAC
1/2 amp 125 VDC 1/4 amp 250 VDC
3 amps 125 VAC "Lamp"

TIMING

- Operate Time: 40 milliseconds max. @ nominal voltage
- Release Time: 30 milliseconds max. @ nominal voltage

DIELECTRIC STRENGTH

- Between Open Contacts: 1500 V rms
- Mutually Insulated
- Conductive elements: 2200 V rms

TEMPERATURE

- Operating Range: (AC) -30°C to +50°C, (DC) -30°C to +60°C
- Non-Operating Storage Range: -55°C to +100°C

LIFE EXPECTANCY

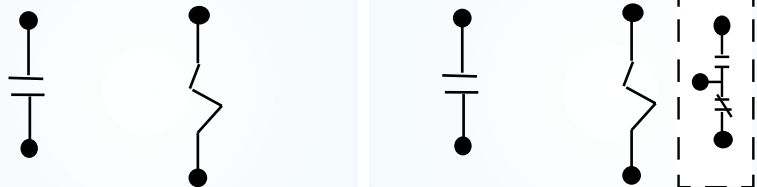
- Electrical: 100,000 operations
@ rated resistive load
- Mechanical: 1,000,000 operations @ no load

MISCELLANEOUS

- Coil Terminals: 6-32 combination head screws
- Load Terminals: 8-32 combination head screws
- Base Material: Molded phenolic, UL recognized (QMFZ2)
- Weight: 227 grams approx.

WIRING DIAGRAM

(VIEWED FROM PIN END)



STANDARD PART NUMBERS	COIL MEASURED @ 25°C	
	NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)
AC OPERATED		
W199ADBX-4	120 VAC	290 Ω
AC OPERATED WITH SPDT AUXILIARY SWITCH		
W199ADBMX-4	120 VAC	290 Ω
DC OPERATED		
W199DBX-3	24 VDC	290 Ω
W199DBX-6	48 VDC	1200 Ω
DC OPERATED WITH SPDT AUXILIARY SWITCH		
W199DBMX-3	24 VDC	290 Ω
W199DBMX-2	48 VDC	1200 Ω