

# DOUBLE MAKE OR BREAK POWER RELAYS

CLASS 199

# 7

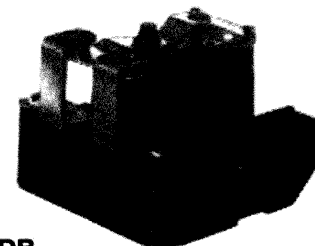
# RELAYS

**SPECIFICATIONS CLASS 199**

- COIL**  
 Pull-in Voltage: 80% DC Coils, 85% AC coils of nominal voltage or Less.  
 Dropout Voltage: 10% of Nominal Voltage or More.  
 Coil Resistance: ± 10%  
 Max. Coil Dissipation: 4 Watts DC Continuous Duty.
- CONTACTS**  
 Contact Combinations: SPST-NC (Double Break (1 Form y) SPST-NO (Double Make (1 Form x))  
 Contact Rating each Pole: 30 Amps up to 300 VAC, 50/60Hz  
 12 Amps @ 480, 10 Amps @ 600Vac, 50/60 Hz, 0.75pF Inductive Load, 2 Hp Motor Load @ 120 thru 600 Vac, 50/60 Hz. 30 Amps @ 28 Vdc Resistive load.  
 Ratings, SPST-NO-DM with Box Terminals: 50 Amps up to 300 VAC, 50/60Hz  
 50 Amps @ 28 Vdc Resistive load. Loads must be current limited as not to exceed 100 Amp inrush Currents.  
 Contact Material: Silver Cadmium Oxide, Gold Flashed. 5/16" Diameter Standard.
- TIMING**  
 Operate time: 40 Milliseconds Max. @ Nominal V  
 Release Time: 30 Milliseconds Max. @ Nominal V
- DIELECTRIC STRENGTH**  
 Between Open Contacts: 1500 V rms  
 Mutually Insulated  
 Conductive elements: 2200 V rms
- TEMPERATURE**  
 Operating: -30°C to +50°C (AC) to +60°C (DC)  
 Storage: -30°C to + 100°C
- LIFE**  
 Electrical (Rated Load): 100,000 Operations  
 Mechanical (No Load): 5,000,000 Operations
- MISCELLANEOUS**  
 Coi Terminals: 6-32 Binder Head Screws  
 Contacts Terminals: 8-32 Binder Head Screws  
 Base Material: Molded Phenolic, UL Recognized (GMFZ2)  
 Weight: 8 oz. - 227 Grams approx.

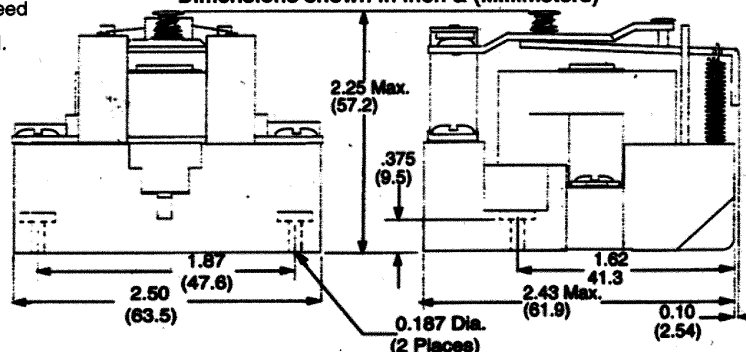
**CLASS 199 SPST-NC-DB**

- RATED 30 AMPS @ 2 HP
- SCREW TERMINALS
- CLASS "B" COIL INSULATION SYSTEM



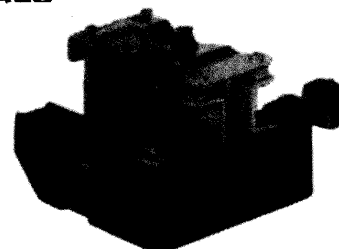
**SPST-NC-DB OUTLINE DIMENSIONS**

Dimensions shown in Inch & (Millimeters)



**CLASS 199 SPST-NO-DM**

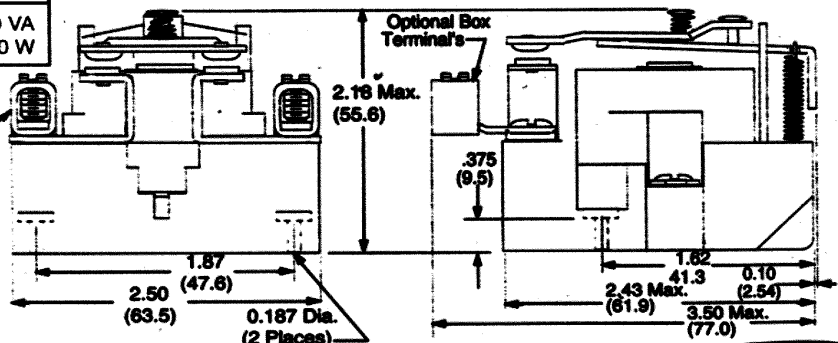
- RATED 30 AMPS @ 2HP WITH SCREW TERMINALS
- 50 AMPS @ 2HP WITH BOX TERMINALS.
- CLASS "B" COIL INSULATION SYSTEM



SHOWN WITH OPTIONAL BOX TERMINALS

**SPST-NO-DM OUTLINE DIMENSIONS**

Dimensions shown in Inch & (Millimeters)



50 AMP BOX TERMINALS ACCEPT NO.14 THRU NO. 6 AWG. WIRE

Magnecraft PART NUMBER	COIL Measured @ 25°C		
	NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)	NOMINAL POWER
<b>DC OPERATED (SPST-NC-DB WITH 30 AMP SCREW TERMINALS)</b>			
W199DYX-2	12 VDC	70	2.0 W
<b>AC OPERATED (SPST-NO-DM WITH 30 AMP SCREW TERMINALS)</b>			
W199ADX-4	120 VAC	-	10 VA
W199ADX-5	240 VAC, 60 Hz 220 VAC, 50 Hz	-	10 VA
<b>DC OPERATED (DPST-NO-DM WITH 30 AMP SCREW TERMINALS)</b>			
W199DX-2	12 VDC	70	2.0 W
W199DX-3	24 VDC	290	2.0 W
<b>AC &amp; DC OPERATED (SPST-NO-DM WITH 50 AMP BOX TERMINALS)</b>			
W199ADEX-4	120 VAC	-	10 VA
W199DEX-3	24 VDC	290	2.0 W

OTHER COIL VOLTAGES ARE AVAILABLE ON SPECIAL ORDER.