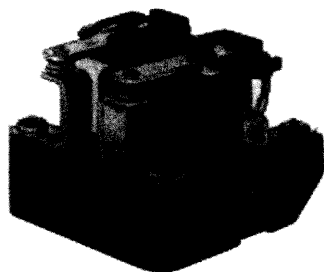


OPEN STYLE POWER RELAY

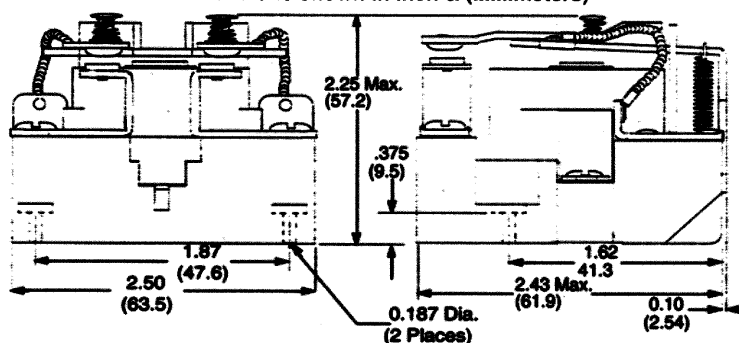
CLASS
199



- CLASS 199 DPST-NO
- 1-1/2 HP PER POLE
- 2 Hp - 2 POLE SWITCHING
- MOLDED PLASTIC INSULATION
- SCREW TERMINALS
- CLASS "B" COIL INSULATION SYSTEM

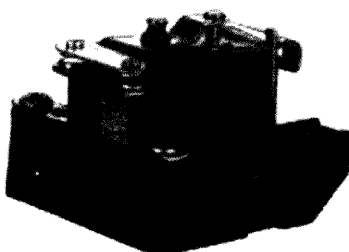
DPST-NO OUTLINE DIMENSIONS

Dimensions shown in Inch & (Millimeters)



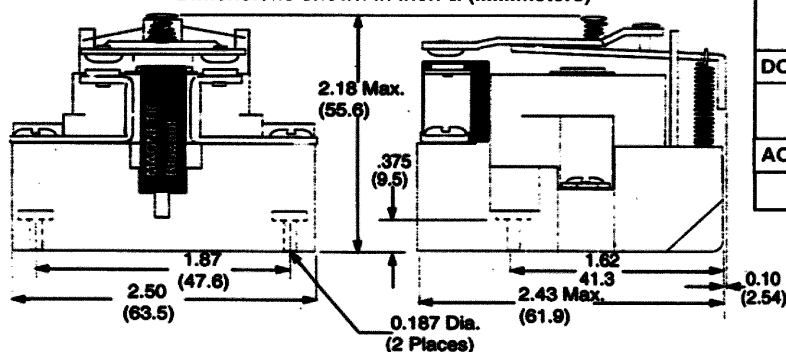
CLASS 199DB

- SPST-NO-DM WITH MAGNETIC BLOWOUT FOR DC ARC QUENCHING
- 20 AMP @ 110 VDC
- MOLDED PLASTIC INSULATION
- SCREW TERMINALS
- CLASS "B" COIL INSULATION SYSTEM



SPST-NO-DM OUTLINE DIMENSIONS

Dimensions shown in Inch & (Millimeters)



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: $\pm 10\%$ Measured @ 25°C
Max. Coil Dissipation: 4 Watts DC Continuous Duty.

CONTACTS

Contact Combinations: DPST-NO (2 Form A) - SPST-NO (Double Make (1 Form X))

Contact Rating each Pole: 30 Amps up to 300 VAC, 50/60Hz
5 Amps @ 480/600Vac, 0.75pF inductive Load, 1-1/2 Hp Motor Load (each Pole) @ 120 thru 600 Vac, 50/60 Hz. 2 Hp Motor Load @ 200 thru 600 Vac, 50/60 Hz only when using two pole to switch both sides of Load 30 Amps @ 28 Vdc Resistive Each Pole.

Ratings, SPST-NO-DM with Blowout Magnet:

20 Amps @ 110 Vdc, Resistive; 8 Amps at 220 Vdc, Resistive, 4 Amps @ 500Vdc Resistive. Inductive 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 (for 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

Coil Terminals: 6-32 Binder Head Screws
Contact Terminals: 8-32 Binder Head Screws
Base Material: Molded Phenolic, UL Recognized (OMFZ2)
Weight: 9 oz. - 255 Grams approx. (DPST-NO)
8 oz. - 227 Grams approx. (SPST-NO-DM)



Magnecraft PART NUMBER	COIL Measured @ 25°C		
	NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)	NOMINAL POWER
AC OPERATED (DPST-NO)			
W199AX-8	24 VAC	-	10 VA
W199AX-9	120 VAC	-	10 VA
W199AX-10	240 VAC, 60 Hz 220 VAC, 50 Hz	-	10 VA
DC OPERATED (DPST-NO)			
W199X-11	12 VDC	70	2.0 W
W199X-12	24 VDC	290	2.0 W
AC OPERATED (SPST-NO-DM WITH MAGNETIC BLOWOUT)			
W199ADB-4	120 VAC	-	10 VA

OTHER COIL VOLTAGES ARE AVAILABLE ON SPECIAL ORDER.