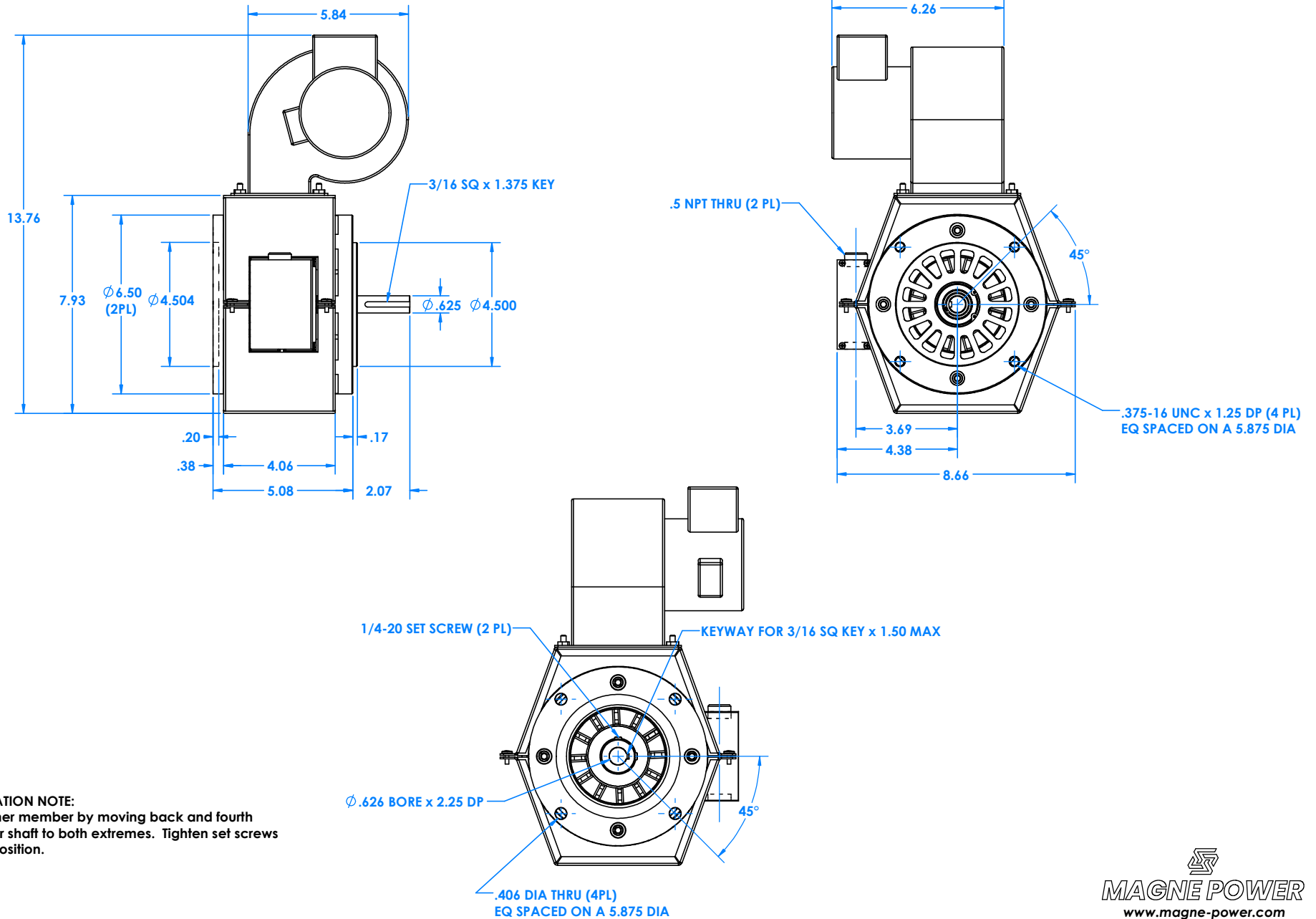


7MCA90C MAGNECLUTCH PERFORMANCE & OUTLINE



INSTALLATION NOTE:
Align inner member by moving back and fourth on motor shaft to both extremes. Tighten set screws at mid position.

UNITS: INCHES

7MCA90C

P/N 2960768-002

TYPE OF COOLING

FORCED AIR

MOUNTING

NEMA 56C

MAXIMUM SHAFT DEVIATION FROM HORIZONTAL

30°

SPECIFICATIONS

TORQUE RANGE (LB. FT.)	.25 - 7
SPEED RANGE (RPM)	0 - 3600
HEAT DISSIPATION (WATTS AT 1800 RPM)	940
(HP AT 1800 RPM)	1.26
NON-EXCITED DRAG TORQUE (LB. FT.) MAX	.25
WEIGHT LBS. (APPROX)	29
ROTOR MOMENT OF INERTIA - (LB. IN. ²)	INNER MEMBER - 2.9
	OUTER MEMBER - 4.7

BLOWER DATA

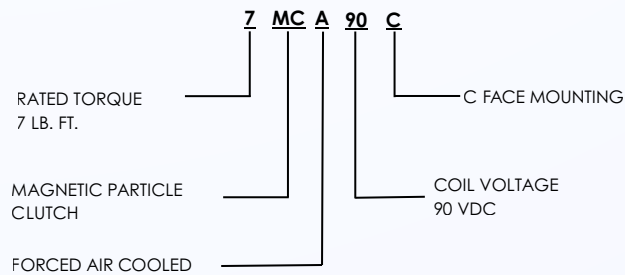
115V AC, 1 Ph **Frequency 50/60 Hz**
1/25 hp **Current 0.75 A**

COIL DATA

VOLTS DC	COIL TEMPERATURE (°C)	RESISTANCE (OHMS)	RATED CURRENT (AMPS)	CURRENT TIME CONSTANT (SEC)	TORQUE TIME CONSTANT (SEC)
90	20	257	.262	.11	.28

The time in seconds for current or torque to reach 63% of its final value after a step change in voltage is applied.

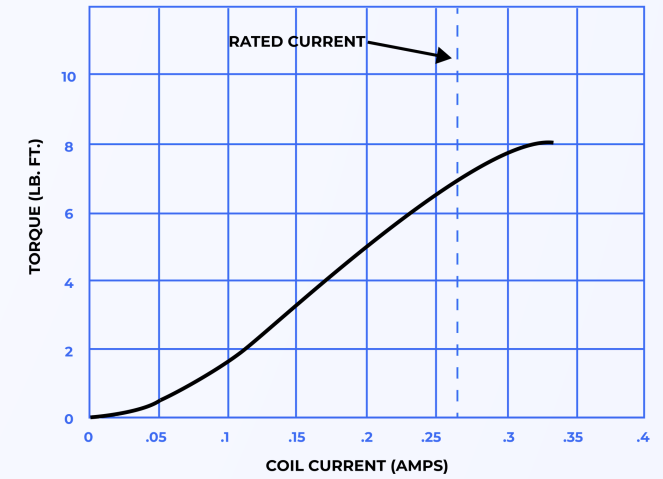
MODEL CODE



NOTE: The graph represents the average, continuous heat dissipation capacity of units operating under slip conditions. Slip watts can be calculated using the formula below. To ensure the life of the unit, it may be applied up to or below the curve. When referencing RPM on the graph, it is the speed of the outer rotating member not the motor speed.

$$\text{Slip watts} = \frac{\text{Torque} \times (\text{RPM in} - \text{RPM out})}{7.04}$$

TORQUE VS. CURRENT



HEAT DISSIPATION VS. SPEED

