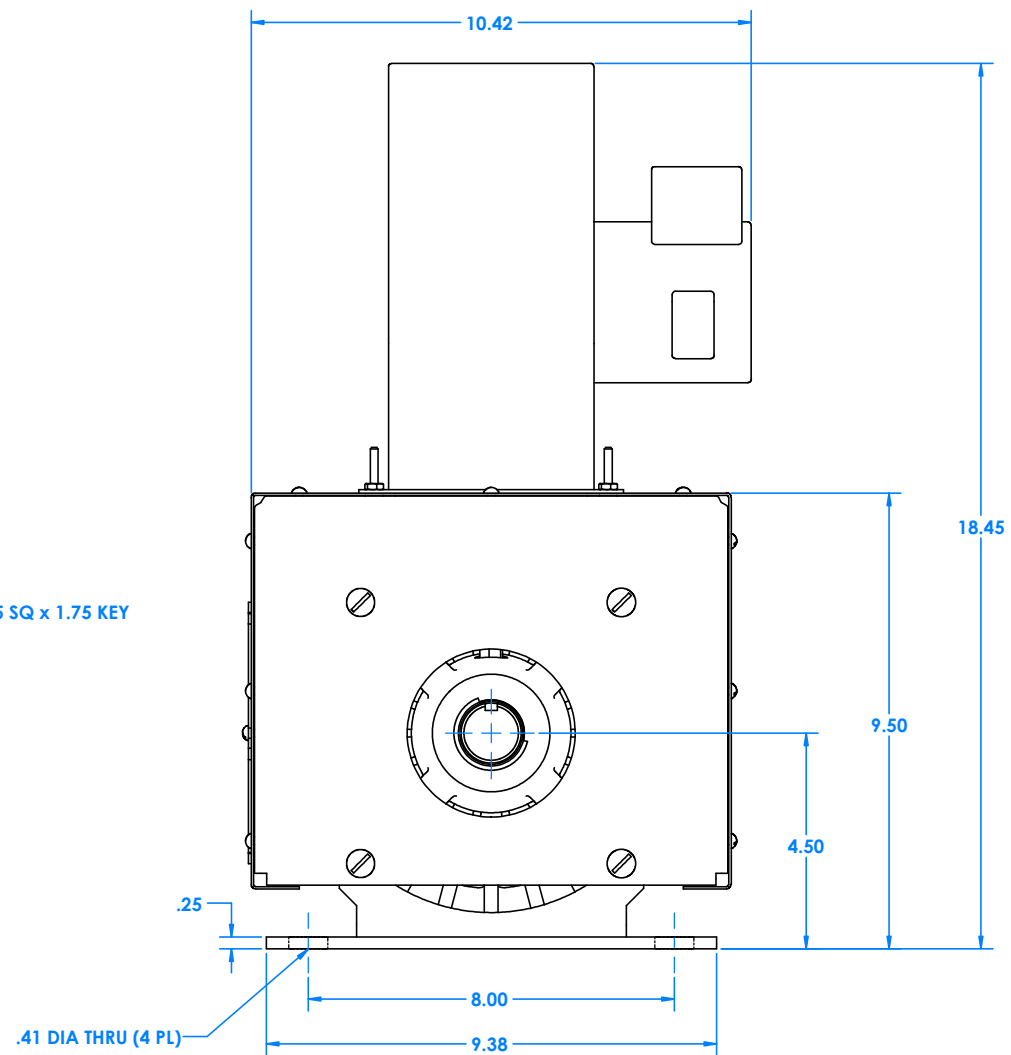
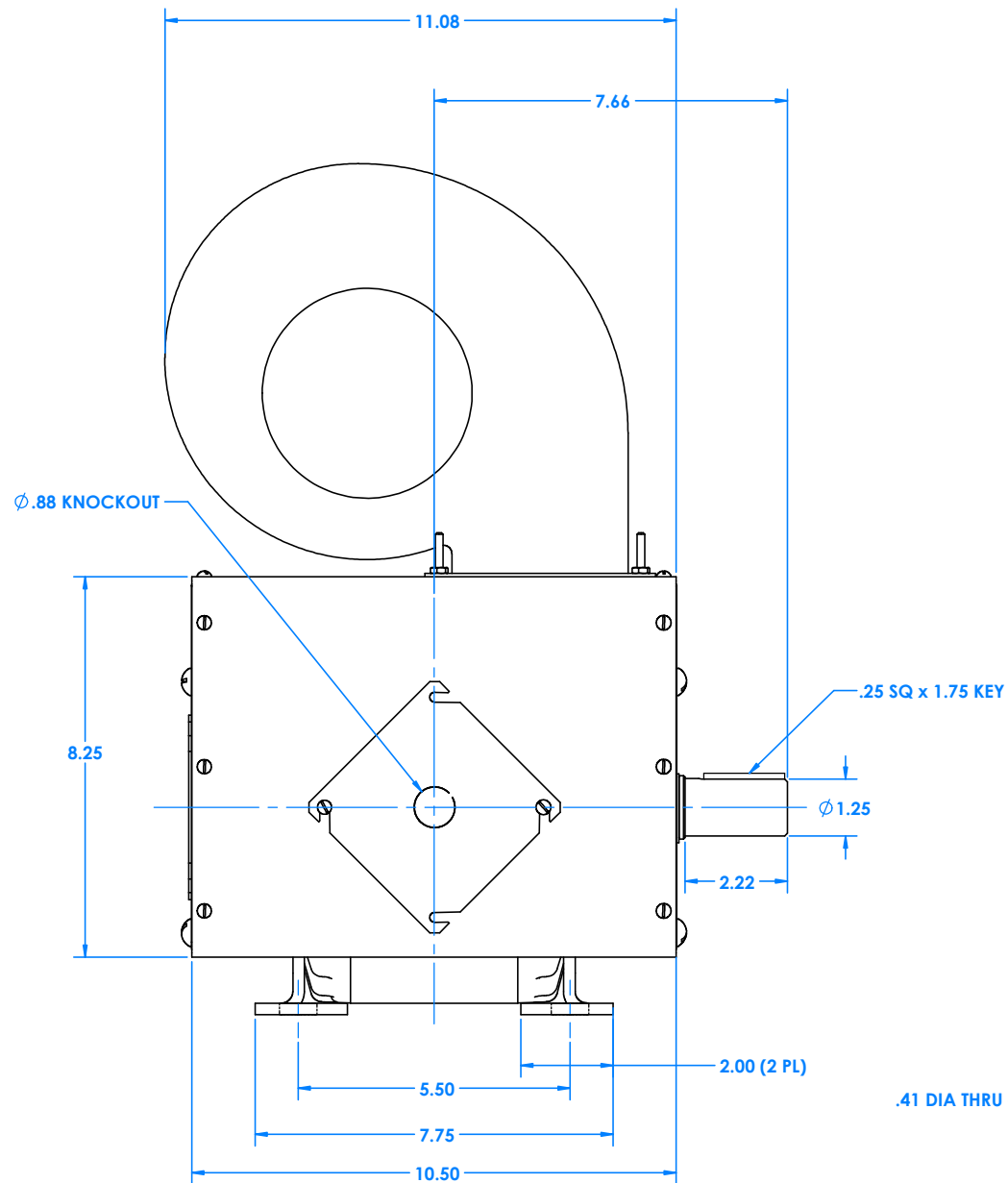


50MBA90B20 MAGNEBRAKE PERFORMANCE & OUTLINE



UNITS: INCHES

50MBA90B20

P/N 2960649-002

TYPE OF COOLING

FORCED AIR

MOUNTING

BASE

MAXIMUM SHAFT DEVIATION
FROM HORIZONTAL

30°

SPECIFICATIONS

TORQUE RANGE (LB. FT.)	.4 - 50
SPEED RANGE (RPM)	0 - 3600
HEAT DISSIPATION (WATTS AT 1800 RPM)	1350
(HP AT 1800 RPM)	1.81
NON-EXCITED DRAG TORQUE (LB. FT.) MAX	.4
WEIGHT LBS. (APPROX)	67
ROTATING MEMBER MOMENT OF INERTIA - (LB. FT. ²)	.24

BLOWER DATA

115V AC, 1 Ph **Frequency 50/60 Hz**

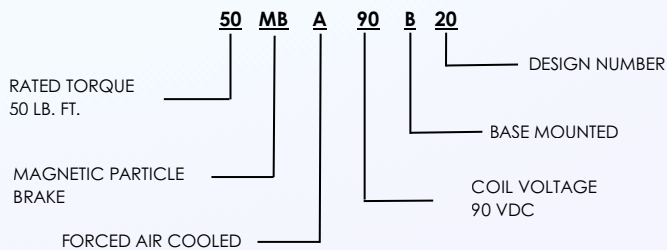
1/20 hp **Current 0.77 A**

COIL DATA

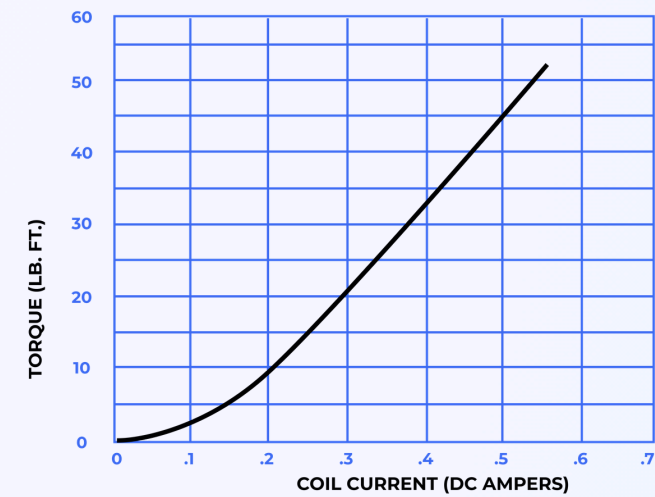
VOLTS DC	COIL TEMPERATURE (°C)	RESISTANCE (OHMS)	RATED CURRENT (AMPS)	CURRENT TIME CONSTANT (SEC)	TORQUE TIME CONSTANT (SEC)
90	20	127	.53	.22	.38

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

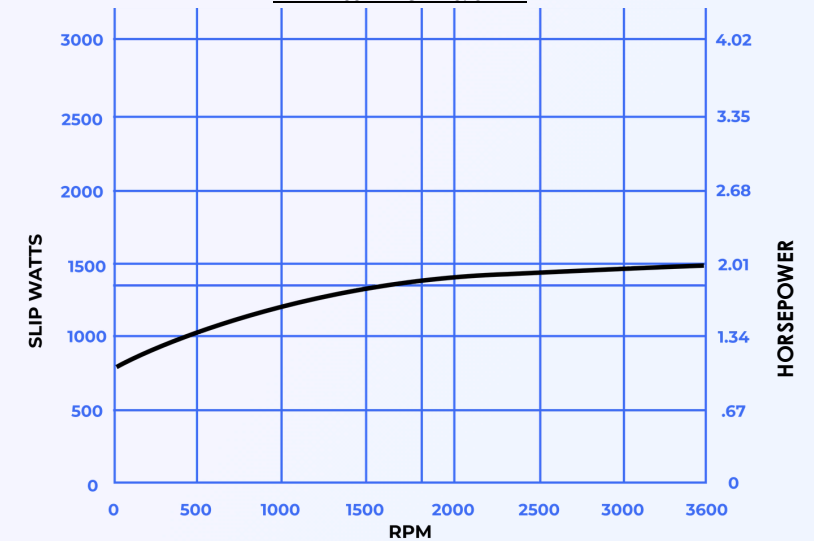
MODEL CODE



TORQUE VS. COIL CURRENT



HEAT DISSIPATION VS. SPEED



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.

$$\text{Slip watts} = \frac{\text{Torque} \times \text{RPM}}{7.04}$$