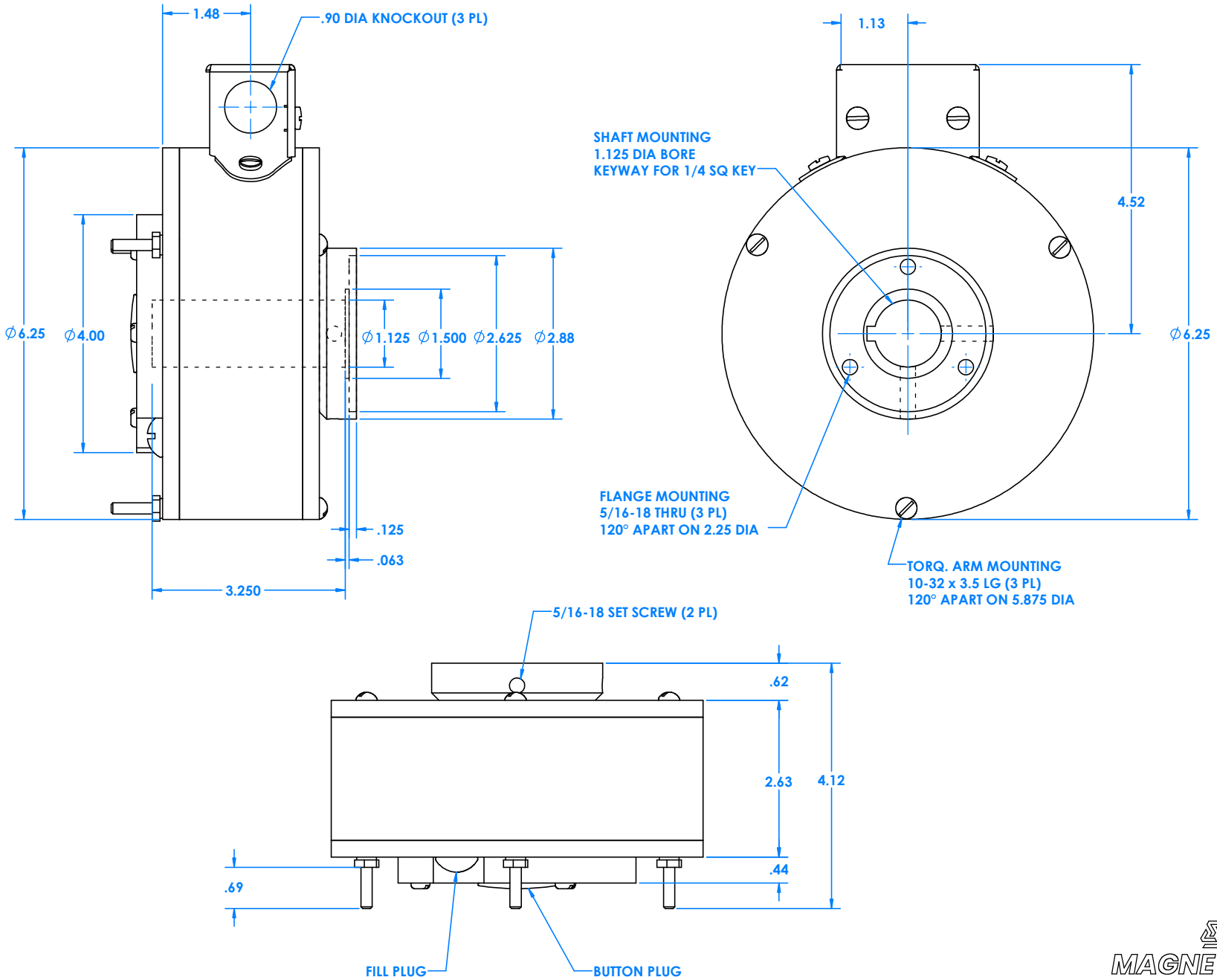
25MB90S MAGNEBRAKE PERFORMANCE & OUTLINE



UNITS: INCHES

MAGNE POWER
www.magne-power.com
service@magne-power.com
888-776-2463

25MB90S

P/N 0750536

TYPE OF COOLING	**AIR CONVECTION**
MOUNTING	**3 BOLT FLANGE MOUNTED AND/OR A FINISHED BORE WITH KEYWAY AND SET SCREWS**
MAXIMUM SHAFT DEVIATION FROM HORIZONTAL	**30°**

Brake must have suitable torque arm to stop rotation. Torque arm should be free floating. Any two through bolts on brake can be used for mounting torque arm.

Torque arm available: **Model TAB-25**

SPECIFICATIONS

TORQUE RANGE (LB. FT.)	**.4 - 25**
SPEED RANGE (RPM)	**0 - 4000**
HEAT DISSIPATION (WATTS AT 1800 RPM)	**140**
(HP AT 1800 RPM)	**.19**
NON-EXCITED DRAG TORQUE (LB. FT.) MAX	**.4**
WEIGHT LBS. (APPROX.)	**17**
ROTOR MOMENT OF INERTIA - (LB. FT.^{2})	**.07**

COIL DATA

VOLTS DC	COIL TEMPERATURE (°C)	RESISTANCE (OHMS)	RATED CURRENT (AMPS)	CURRENT TIME CONSTANT (SEC)	TORQUE TIME CONSTANT (SEC)
90	**20**	**142**	**.48**	**.16**	**.23**

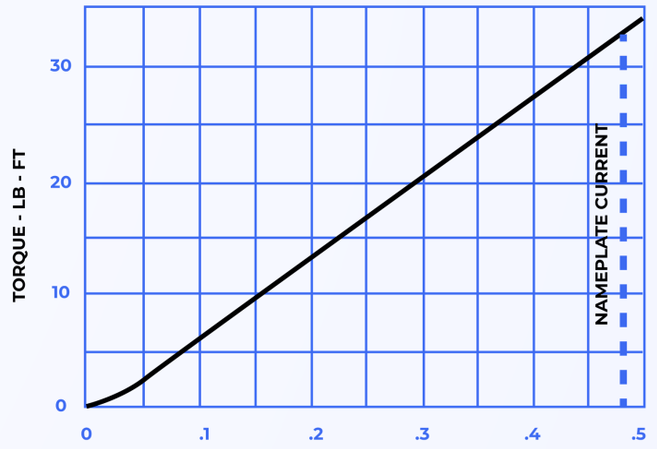
The time in seconds for current or torque to reach 63% of its final value after a step change in voltage is applied.

MODEL CODE

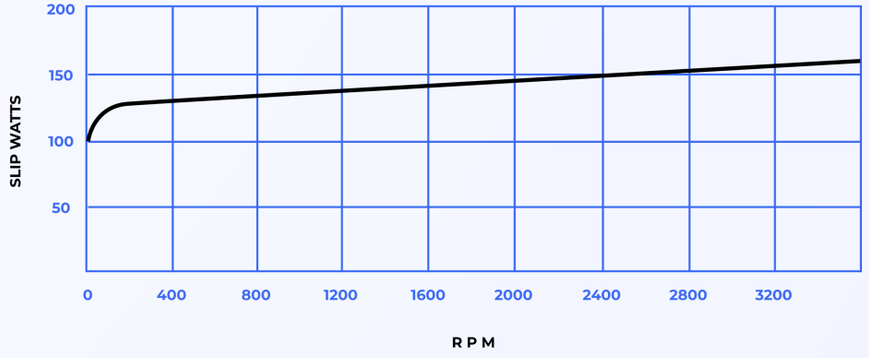
25 MB 90 S

- **25** — RATED TORQUE 25 LB. FT.
- **MB** — MAGNETIC PARTICLE BRAKE
- **90** — COIL VOLTAGE 90 VDC
- **S** — TYPE OF MOUNTING S = SHAFT

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.

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