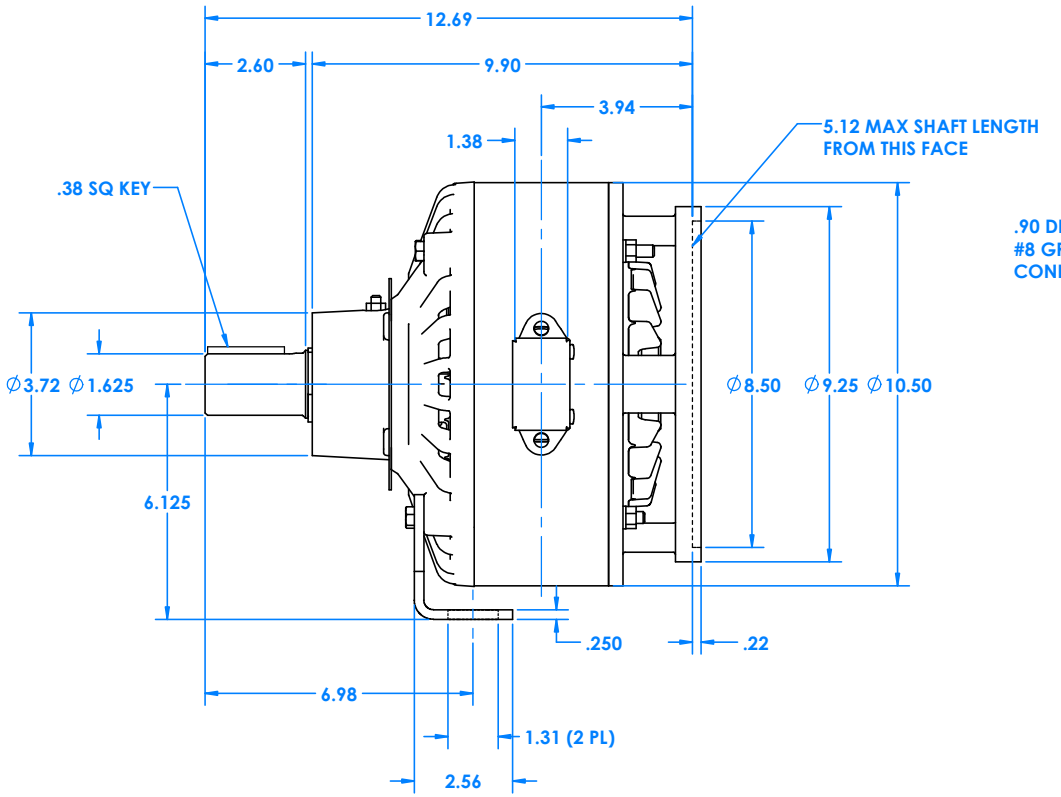
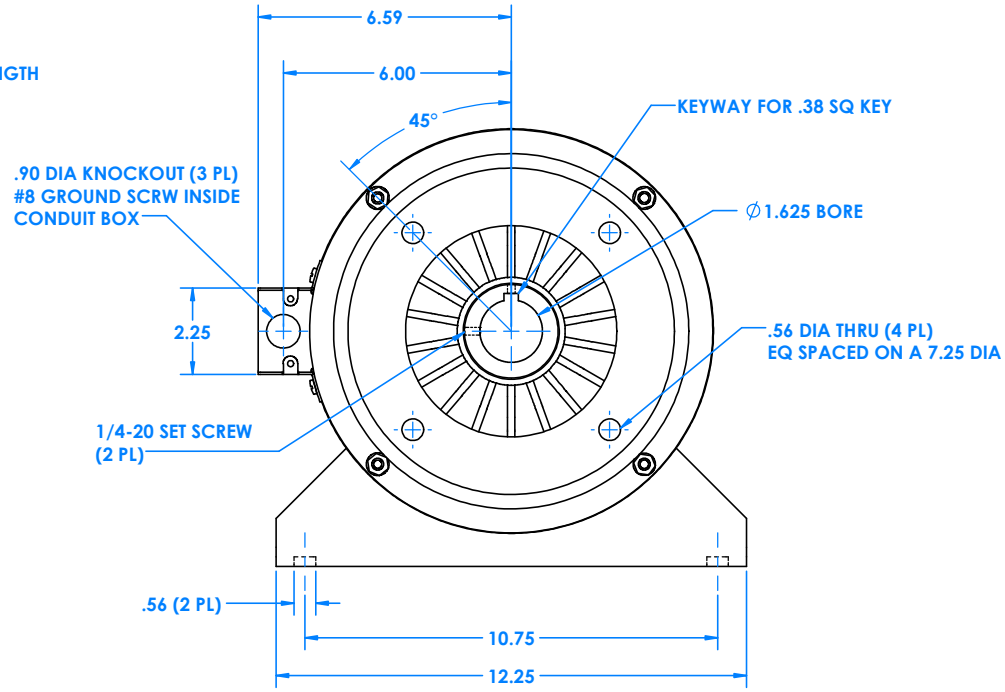
100MC90F22 MAGNECLUTCH PERFORMANCE & OUTLINE





INSTALLATION NOTE:
Align inner rotating member so that the face is positioned in line with the edge of the fins on the seal cover

UNITS: INCHES

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

100MC90F22

P/N 2960727-002

TYPE OF COOLING	**AIR CONVECTION**
MOUNTING	**NEMA FRAMES 254TC AND 256TC**
MAXIMUM SHAFT DEVIATION FROM HORIZONTAL	**30°**

SPECIFICATIONS

TORQUE RANGE (LB. FT.)	**1 - 100**
SPEED RANGE (RPM)	**0 - 3600**
HEAT DISSIPATION (WATTS AT 1800 RPM)	**1100**
(HP AT 1800 RPM)	**1.47**
NON-EXCITED DRAG TORQUE (LB. FT.) MAX	**1**
WEIGHT LBS. (APPROX)	**98**
INERTIA - (LB. FT.²) - OUTER MEMBER	**.68**
- INNER MEMBER	**.46**

COIL DATA

VOLTS DC	COIL TEMPERATURE (°C)	RESISTANCE (OHMS)	RATED CURRENT (AMPS)	CURRENT TIME CONSTANT (SEC)	TORQUE TIME CONSTANT (SEC)
90	**20**	**68**	**1**	**.6**	**.82**

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

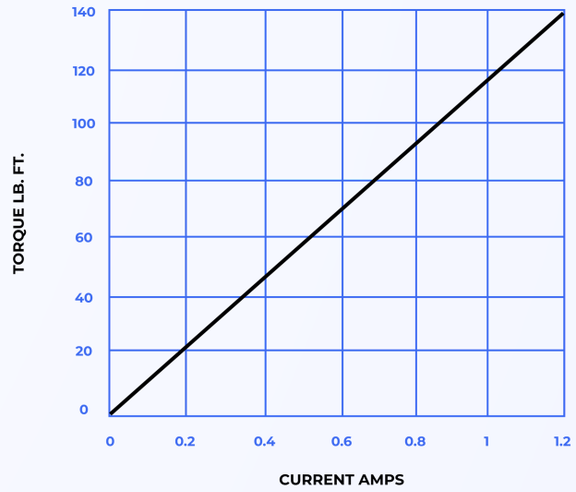
100 MC 90 F 20

- 100 — RATED TORQUE 100 LB. FT.
- MC — MAGNETIC PARTICLE CLUTCH
- 90 — COIL VOLTAGE 90 VDC
- F — FLANGE MOUNTED
- 20 — 22 = CONDUIT BOX F2 POSITION

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.

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

TORQUE VS. COIL CURRENT



HEAT DISSIPATION VS. SPEED