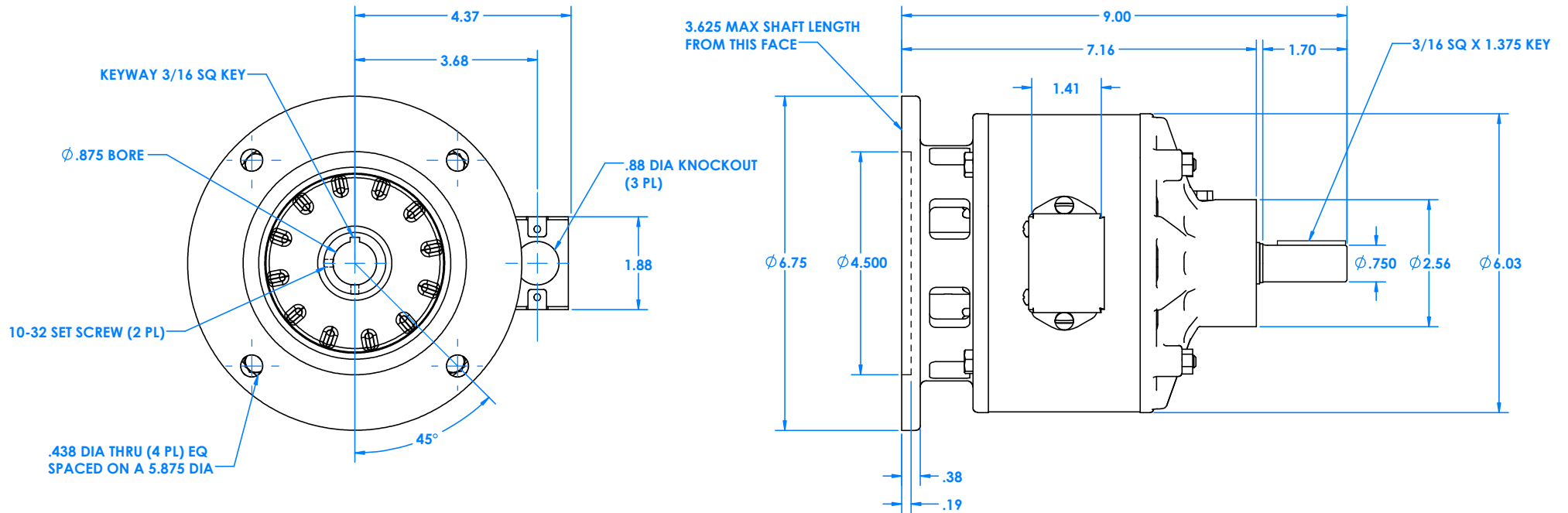


10MC90F20 MAGNECLUTCH PERFORMANCE & OUTLINE



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

10MC90F20

P/N 2960916-001

TYPE OF COOLING

AIR CONVECTION

MOUNTING

NEMA 143TC, 145TC

MAXIMUM SHAFT DEVIATION FROM HORIZONTAL

30°

SPECIFICATIONS

TORQUE RANGE (LB. FT.)

.15 - 10

SPEED RANGE (RPM)

0 - 3600

HEAT DISSIPATION (WATTS AT 1800 RPM)

500

(HP AT 1800 RPM)

.67

NON-EXCITED DRAG TORQUE (LB. FT.) MAX

.15

WEIGHT LBS. (APPROX)

25.5

INERTIA - (LB. FT.²) - INNER MEMBER

.023

- OUTER MEMBER

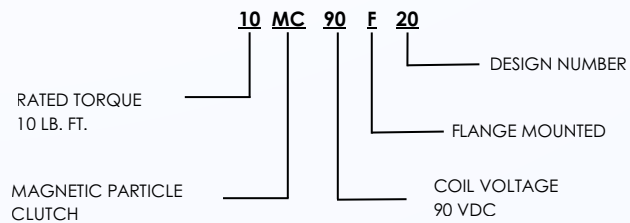
.040

COIL DATA

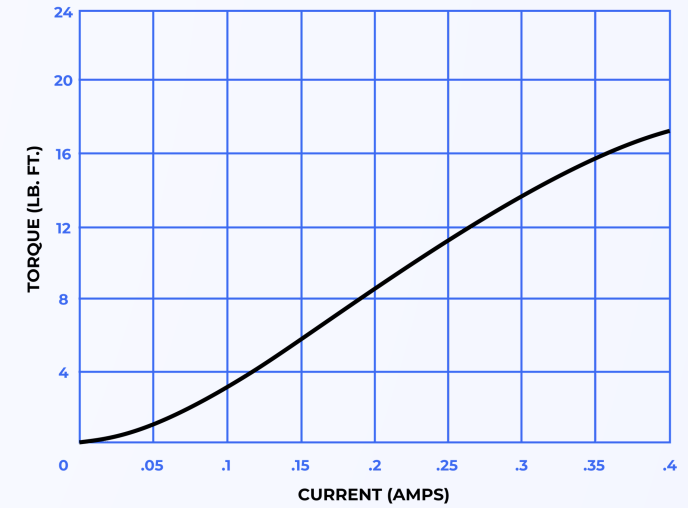
VOLTS DC	COIL TEMPERATURE (°C)	RESISTANCE (OHMS)	RATED CURRENT (AMPS)	CURRENT TIME CONSTANT (SEC)	TORQUE TIME CONSTANT (SEC)
90	20	273	.25	.14	.26

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

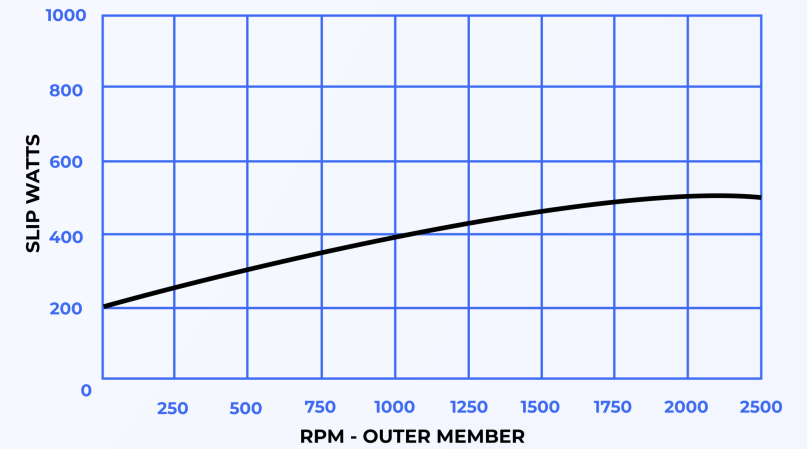
MODEL CODE



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. When referencing RPM on the graph, it is the speed of the outer rotating member not the motor speed.

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