

D-3000-F-3T SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_p	oz-in	95
Motor Constant, K_M	oz-in / \sqrt{W}	12.2
Number of Poles		10
Weight	oz (nom)	9.7
Motor Inertia, J_M	oz-in-s ²	1.60E-02
Friction Torque, T_f	oz-in	2.5
Electrical Time Constant, T_E	ms	0.622
Mechanical Time Constant, T_M	ms	15.34
Temperature Rise, TPR ¹	°C / W	6.5
Ripple Torque, T_R	max. avg. to peak (%)	5

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in / amp	28
Back EMF, K_E	V per rad/s	0.198
Terminal Resistance, R_M	ohms (nom)	5.3
Terminal Inductance, L_M	mH (nom)	3.3
Voltage, Stalled at Peak Torque, V_p	volts	18
Amps at Peak Torque, I_p	amps	3.40

MECHANICAL DIMENSIONS (INCHES)

