

D-3000-F-1T SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	93
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	0.615
Mechanical Time Constant, T_M	ms	15.32
Temperature Rise, TPR'	°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	62
Back EMF, K_E	V per rad/s	0.438
Terminal Resistance, R_M	ohms (nom)	26
Terminal Inductance, L_M	mH (nom)	16
Voltage, Stalled at Peak Torque, V_P	volts	39
Amps at Peak Torque, I_P	amps	1.5

MECHANICAL DIMENSIONS (INCHES)

