

TD-2500-F-1 SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	18
Motor Constant, K_M	oz-in / \sqrt{W}	2.35
Excursion Angle	degrees	± 60
Number of Poles		2
Weight	oz (nom)	6.5
Motor Inertia, J_M	oz-in-s ²	2.30E-03
Friction Torque, T_F	oz-in	0.3
Electrical Time Constant, T_E	ms	TBD
Mechanical Time Constant, T_M	ms	58.90

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in/amp	5.9
Back EMF, K_E	V per rad/s	0.0417
Terminal Resistance, R_M	ohms (nom)	6.3
Terminal Inductance, L_M	mH (nom)	TBD
Voltage, Stalled at Peak Torque, V_P	volts	20
Amps at Peak Torque, I_P	amps	3.17

MECHANICAL DIMENSIONS (INCHES)

