

TD-2250-A-1 SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	18.8
Motor Constant, K_M	oz-in / \sqrt{W}	4.77
Excursion Angle	degrees	± 7.5
Number of Poles		4
Weight	oz (nom)	7.5
Motor Inertia, J_M	oz-in-s ²	2.26E-03
Friction Torque, T_F	oz-in	0.5
Electrical Time Constant, T_E	ms	26.866
Mechanical Time Constant, T_M	ms	0.20

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in/amp	33
Back EMF, K_E	V per rad/s	0.233
Terminal Resistance, R_M	ohms (nom)	0.67
Terminal Inductance, L_M	mH (nom)	18
Voltage, Stalled at Peak Torque, V_P	volts	24
Amps at Peak Torque, I_P	amps	0.648

MECHANICAL DIMENSIONS (INCHES)

