

TD-4094-A-1 SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	144
Motor Constant, K_M	oz-in / \sqrt{W}	21.5
Excursion Angle	degrees	± 15
Number of Poles		6
Weight	oz (nom)	24
Motor Inertia, J_M	oz-in-s ²	7.60E-02
Friction Torque, T_F	oz-in	0.75
Electrical Time Constant, T_E	ms	0.520
Mechanical Time Constant, T_M	ms	23.42

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in/amp	48
Back EMF, K_E	V per rad/s	0.338
Terminal Resistance, R_M	ohms (nom)	5
Terminal Inductance, L_M	mH (nom)	2.6
Voltage, Stalled at Peak Torque, V_P	volts	28
Amps at Peak Torque, I_P	amps	3

MECHANICAL DIMENSIONS (INCHES)

