

TD-4960-A-1 SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	120
Motor Constant, K_M	oz-in / \sqrt{W}	35
Excursion Angle	degrees	± 15
Number of Poles		6
Weight	oz (nom)	24
Motor Inertia, J_M	oz-in-s ²	1.19E-01
Friction Torque, T_F	oz-in	0.75
Electrical Time Constant, T_E	ms	0.455
Mechanical Time Constant, T_M	ms	13.76

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in/amp	82
Back EMF, K_E	V per rad/s	0.58
Terminal Resistance, R_M	ohms (nom)	5.5
Terminal Inductance, L_M	mH (nom)	2.5
Voltage, Stalled at Peak Torque, V_P	volts	18
Amps at Peak Torque, I_P	amps	1.46

MECHANICAL DIMENSIONS (INCHES)

