

TD-4882-A-1 SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	350
Motor Constant, K_M	oz-in / \sqrt{W}	23.3
Excursion Angle	degrees	± 15
Number of Poles		6
Weight	oz (nom)	41.3
Motor Inertia, J_M	oz-in-s ²	8.30E-02
Friction Torque, T_F	oz-in	0.75
Electrical Time Constant, T_E	ms	2.300
Mechanical Time Constant, T_M	ms	21.69

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in/amp	52
Back EMF, K_E	V per rad/s	0.368
Terminal Resistance, R_M	ohms (nom)	5
Terminal Inductance, L_M	mH (nom)	11.5
Voltage, Stalled at Peak Torque, V_P	volts	34
Amps at Peak Torque, I_P	amps	6.73

MECHANICAL DIMENSIONS (INCHES)

