

TD-4180-A-1 SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_p	oz-in	336
Motor Constant, K_M	oz-in / W	26.5
Excursion Angle	degrees	± 10
Number of Poles		6
Weight	oz (nom)	48
Motor Inertia, J_M	oz-in-s ²	6.8E-02
Friction Torque, T_F	oz-in	0.1
Electrical Time Constant, T_E	ms	2.000
Mechanical Time Constant, T_M	ms	13.75

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in/amp	73
Back EMF, K_E	V per rad/s	.515
Terminal Resistance, R_M	ohms (nom)	7.6
Terminal Inductance, L_M	mH (nom)	14
Voltage, Stalled at Peak Torque, V_p	volts	14
Amps at Peak Torque, I_p	amps	2

MECHANICAL DIMENSIONS (INCHES)

