

TD-2380-A-1S SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	12.5
Motor Constant, K_M	oz-in / \sqrt{W}	2.04
Excursion Angle	degrees	± 8
Number of Poles		4
Weight	oz (nom)	3.5
Motor Inertia, J_M	oz-in-s ²	1.78E-03
Friction Torque, T_F	oz-in	0.35
Electrical Time Constant, T_E	ms	0.500
Mechanical Time Constant, T_M	ms	6.10

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in/amp	5
Back EMF, K_E	V per rad/s	0.35
Terminal Resistance, R_M	ohms (nom)	6
Terminal Inductance, L_M	mH (nom)	3
Voltage, Stalled at Peak Torque, V_P	volts	15
Amps at Peak Torque, I_P	amps	2.5

MECHANICAL DIMENSIONS (INCHES)

