

TD-2300-A-1S SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_p	oz-in	10.5
Motor Constant, K_M	oz-in / \sqrt{W}	3.2
Excursion Angle	degrees	± 23
Number of Poles		4
Weight	oz (nom)	7
Motor Inertia, J_M	oz-in-s ²	3.80E-03
Friction Torque, T_F	oz-in	0.35
Electrical Time Constant, T_E	ms	0.357
Mechanical Time Constant, T_M	ms	52.16

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in/amp	12
Back EMF, K_E	V per rad/s	0.085
Terminal Resistance, R_M	ohms (nom)	14
Terminal Inductance, L_M	mH (nom)	5
Voltage, Stalled at Peak Torque, V_p	volts	14
Amps at Peak Torque, I_p	amps	1

MECHANICAL DIMENSIONS (INCHES)

