

TD-1900-A-1 SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	18
Motor Constant, K_M	oz-in / \sqrt{W}	3.51
Excursion Angle	degrees	± 35
Number of Poles		2
Weight	oz (nom)	10
Motor Inertia, J_M	oz-in-s ²	3.40E-03
Friction Torque, T_F	oz-in	0.5
Electrical Time Constant, T_E	ms	0.625
Mechanical Time Constant, T_M	ms	39.37

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in/amp	6.28
Back EMF, K_E	V per rad/s	0.044
Terminal Resistance, R_M	ohms (nom)	3.2
Terminal Inductance, L_M	mH (nom)	2
Voltage, Stalled at Peak Torque, V_P	volts	10
Amps at Peak Torque, I_P	amps	3

MECHANICAL DIMENSIONS (INCHES)

