

TD-1900-B-1C SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	27
Motor Constant, K_M	oz-in / \sqrt{W}	3.53
Excursion Angle	degrees	± 15
Number of Poles		4
Weight	oz (nom)	5.5
Motor Inertia, J_M	oz-in-s ²	2.00E-03
Friction Torque, T_F	oz-in	0.34
Electrical Time Constant, T_E	ms	0.615
Mechanical Time Constant, T_M	ms	22.93

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in/amp	9
Back EMF, K_E	V per rad/s	0.063
Terminal Resistance, R_M	ohms (nom)	6.5
Terminal Inductance, L_M	mH (nom)	4
Voltage, Stalled at Peak Torque, V_P	volts	22
Amps at Peak Torque, I_P	amps	3

MECHANICAL DIMENSIONS (INCHES)

