

TD-1375-F-1C SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	16.5
Motor Constant, K_M	oz-in / \sqrt{W}	1.37
Excursion Angle	degrees	± 28
Number of Poles		4
Weight	oz (nom)	1.5
Motor Inertia, J_M	oz-in-s ²	1.80E-04
Friction Torque, T_F	oz-in	0.08
Electrical Time Constant, T_E	ms	4.5
Mechanical Time Constant, T_M	ms	13.39

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in/amp	3.36
Back EMF, K_E	V per rad/s	0.024
Terminal Resistance, R_M	ohms (nom)	6
Terminal Inductance, L_M	mH (nom)	27
Voltage, Stalled at Peak Torque, V_P	volts	34
Amps at Peak Torque, I_P	amps	5.6

MECHANICAL DIMENSIONS (INCHES)

