

MOTOR CHARACTERISTICS @ 25 ° C

Specification	Units	Value
Peak Torque, T_p	oz-in	1
Motor Constant, K_M	oz-in / W	0.293
Excursion Angle		± 5
Number of Poles		4
Weight	oz (nom)	0.25
Motor Inertia, J_M	oz-in-s ²	4.69E-06
Friction Torque, T_F	oz-in	0.06
Electrical Time Constant, T_E	ms	0.077
Mechanical Time Constant, T_M	ms	5.37

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in/amp	1
Back EMF, K_E	V per rad/s	0.0072
Terminal Resistance, R_M	ohms (nom)	8.25
Terminal Inductance, L_M	mH (nom)	0.634
Voltage, Stalled at Peak Torque, V_p	volts	12
Amps at Peak Torque, I_p	amps	1.5

