

SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25C

Speci cation	Units	Value
Peak Torque, T	oz-in	95
Motor Constant, K	oz-in / W	15.3
Number of Poles		8
Weight	oz (nom)	21
Motor Inertia, J	oz-in- s^2	1.40E-03
Friction Torque, T	oz-in	2.5
Electrical Time Constant, T	ms	0.575
Mechanical Time Constant, T	ms	8.82
Temperature Rise, TPR'	$^{\circ}\text{C} / \text{W}$	7
Ripple Torque, T	max. avg. to peak (%)	5

MOTOR WINDING CONSTANTS

Speci cation	Units	Value
Torque Sensitivity, K	oz-in / amp	43.3
Back EMF, K	V per rad/s	0.306
Terminal Resistance, R	ohms (nom)	8
Terminal Inductance, L	mH (nom)	4.6
Voltage, Stalled at Peak Torque, V	volts	17.6
Amps at Peak Torque, I	amps	2.2

MECHANICAL DIMENSIONS (INCHES)