

MOTOR CHARACTERISTICS @ 25C

Speci cation	Units	Value
Peak Torque, T	oz-in	43
Motor Constant, K	oz-in / W	2.70
Number of Poles		8
Weight	oz (nom)	2.4
Motor Inertia, J	oz-in- s^2	5.35E-04
Friction Torque, T	oz-in	0.88
Electrical Time Constant, T	ms	0.172
Mechanical Time Constant, T	ms	10.24
Temperature Rise, TPR'	$^{\circ}\text{C} / \text{W}$	17
Ripple Torque, T	max. avg. to peak (%)	6

MOTOR WINDING CONSTANTS

Speci cation	Units	Value
Torque Sensitivity, K	oz-in / amp	5.05
Back EMF, K	V per rad/s	0.036
Terminal Resistance, R	ohms (nom)	3.48