

D-9000-B-1ES SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	60
Motor Constant, K_M	oz-in / \sqrt{W}	2.46
Number of Poles		24
Weight	oz (nom)	31
Motor Inertia, J_M	oz-in-s ²	4.10×10^{-2}
Friction Torque, T_F	oz-in	0.83
Electrical Time Constant, T_E	ms	3.6
Mechanical Time Constant, T_M	ms	5.00
Temperature Rise, TPR'	°C / W	0.68
Ripple Torque, T_R	max. avg. to peak (%)	4

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in / amp	6.22
Back EMF, K_E	V per rad/s	8.43
Terminal Resistance, R_M	ohms (nom)	6.40
Terminal Inductance, L_M	mH (nom)	23
Voltage, Stalled at Peak Torque, V_P	volts	61.8
Amps at Peak Torque, I_P	amps	9.65

MECHANICAL DIMENSIONS (INCHES)

