

D-2780-B-1AEN SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	14
Motor Constant, K_M	oz-in / \sqrt{W}	4.05
Number of Poles		10
Weight	oz (nom)	4
Motor Inertia, J_M	oz-in-s ²	5.00E-03
Friction Torque, T_F	oz-in	1.2
Electrical Time Constant, T_E	ms	0.123
Mechanical Time Constant, T_M	ms	43.12
Temperature Rise, TPR [*]	°C / W	5.7
Ripple Torque, T_R	max. avg. to peak (%)	6

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in / amp	30.6
Back EMF, K_E	V per rad/s	0.216
Terminal Resistance, R_M	ohms (nom)	57
Terminal Inductance, L_M	mH (nom)	7
Voltage, Stalled at Peak Torque, V_P	volts	26
Amps at Peak Torque, I_P	amps	0.46

MECHANICAL DIMENSIONS (INCHES)

