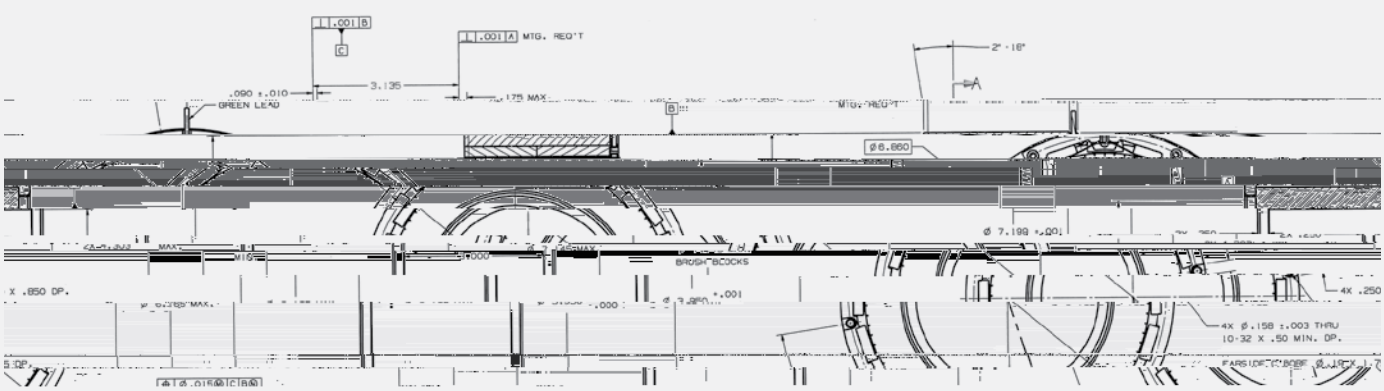
D-7200-B-1ES SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	42.3
Motor Constant, K_M	oz-in / √W	1.73
Number of Poles		20
Weight	oz (nom)	24
Motor Inertia, J_M	oz-in-s^2	2.33x10^{-2}
Friction Torque, T_F	oz-in	0.60
Electrical Time Constant, T_E	ms	2.5
Mechanical Time Constant, T_M	ms	5.76
Temperature Rise, TPR'	°C / W	0.78
Ripple Torque, T_R	max. avg. to peak (%)	4

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in / amp	3.18
Back EMF, K_E	V per rad/s	4.31
Terminal Resistance, R_M	ohms (nom)	3.39
Terminal Inductance, L_M	mH (nom)	8.6
Voltage, Stalled at Peak Torque, V_P	volts	45.0
Amps at Peak Torque, I_P	amps	13.3

MECHANICAL DIMENSIONS (INCHES)