

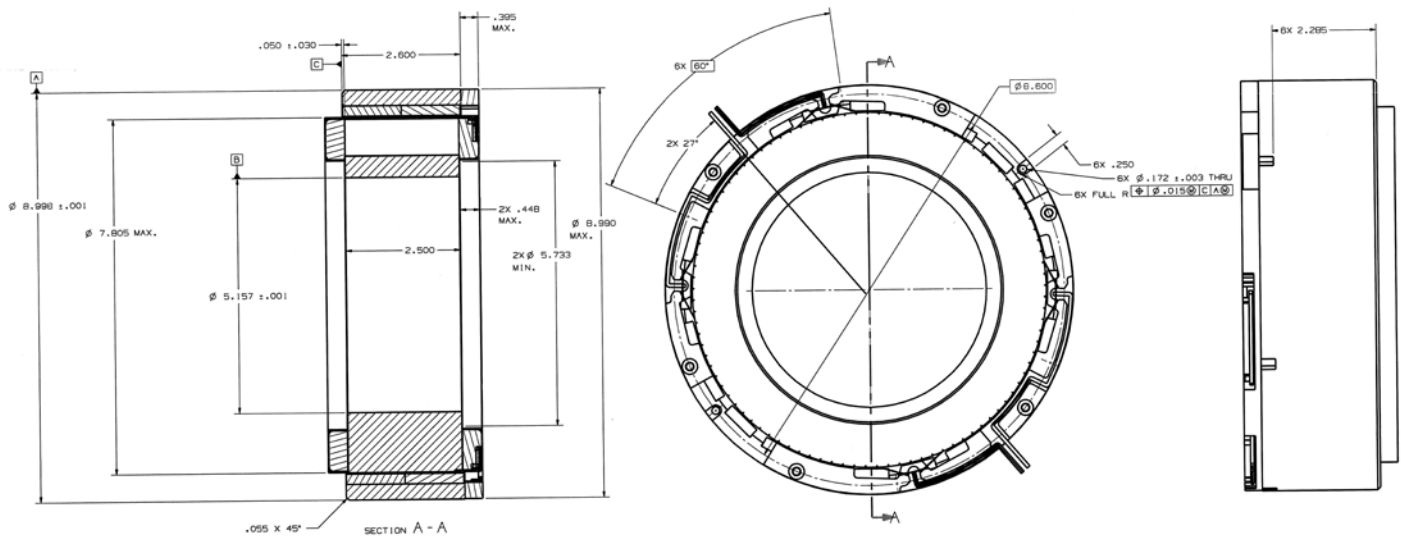
# D-9000-B-1ES Specifications

## D-9000-B-1ES SPECIFICATIONS @ 25°C

Size Constants	Value	Units
Peak Torque, $T_P$	60	lb-ft
Motor Constant, $K_M$	2.46	lb-ft/ $\sqrt{W}$
Number of Poles	24	
Weight	31	lbs
Motor Inertia, $J_M$	$4.10 \times 10^{-2}$	lb-ft-s <sup>2</sup>
Friction Torque, $T_F$	0.83	lb-ft
Electrical Time Constant, $\tau_E$	3.6	ms
Mechanical Time Constant, $\tau_M$	5.00	ms
Temperature Rise, Housed TPR'	0.68	°C/W
Ripple Torque, $T_R$	4	max. avg. to peak (%)
Winding Constants	Value	Units
Torque Sensitivity, $K_T$	6.22	lb-ft/amp
Back EMF, $K_E$	8.43	V per rad/s
Terminal Resistance, $R_M$	6.40	ohms (nom)
Terminal Inductance, $L_M$	23	mH (nom)
Voltage, Stalled at Peak Torque, $V_P$	61.8	volts
Amps at Peak Torque, $I_P$	9.65	amps

Brush Motors

### D-9000-B-1ES Typical Outline Drawing



Dimensions are in inches