

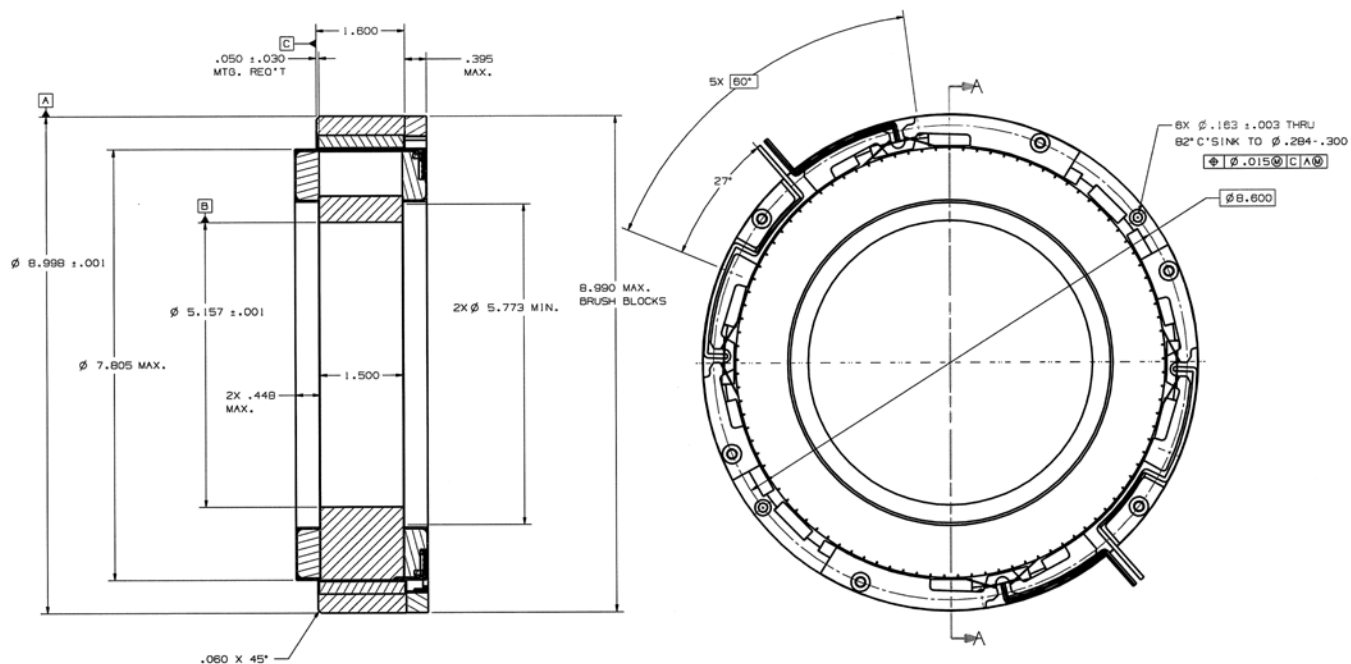
D-9000-A-1ES Specifications

D-9000-A-1ES SPECIFICATIONS @ 25°C

Size Constants	Value	Units
Peak Torque, T_p	46	lb-ft
Motor Constant, K_M	1.65	lb-ft/ \sqrt{W}
Number of Poles	24	
Weight	20	lbs (max)
Motor Inertia, J_M	2.80×10^{-2}	lb-ft-s ²
Friction Torque, T_F	0.42	lb-ft
Electrical Time Constant, τ_E	2.9	ms
Mechanical Time Constant, τ_M	7.17	ms
Temperature Rise, Housed TPR'	0.89	°C/W
Ripple Torque, T_R	4	max. avg. to peak (%)
Winding Constants	Value	Units
Torque Sensitivity, K_T	3.71	lb-ft/amp
Back EMF, K_E	5.03	V per rad/s
Terminal Resistance, R_M	4.78	ohms (nom)
Terminal Inductance, L_M	14	mH (nom)
Voltage, Stalled at Peak Torque, V_p	59.3	volts
Amps at Peak Torque, I_p	12.4	amps

Brush Motors

D-9000-A-1ES Typical Outline Drawing



Dimensions are in inches