

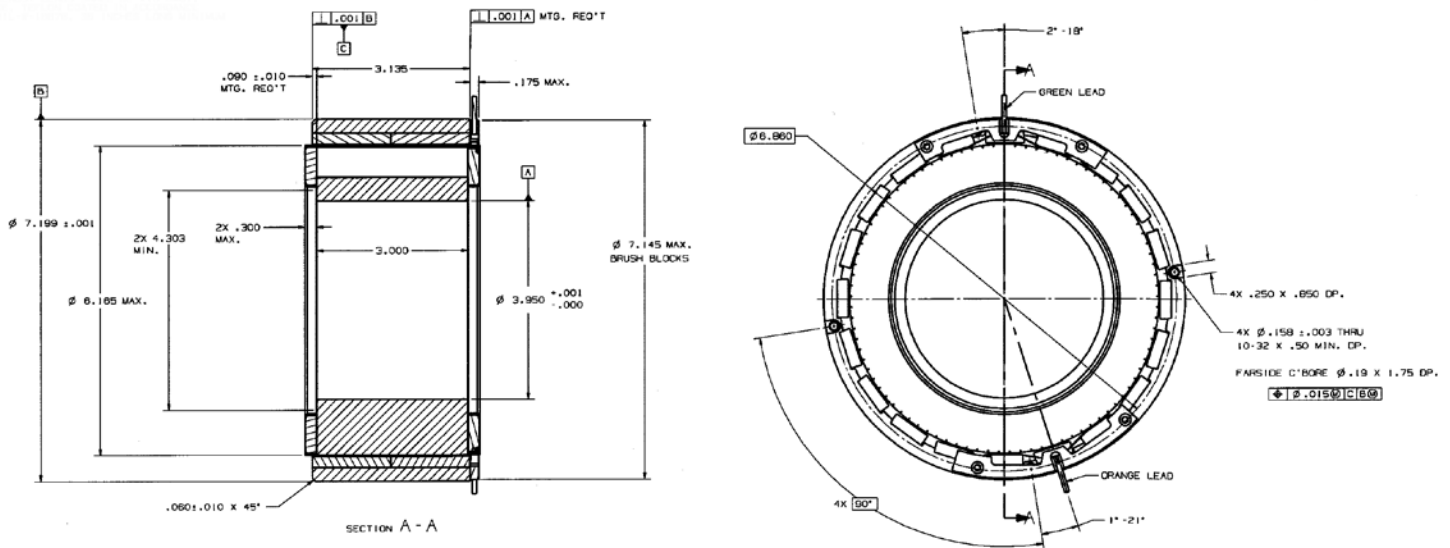
# D-7200-C-1ES Specifications

## D-7200-C-1ES SPECIFICATIONS @ 25°C

Size Constants	Value	Units
Peak Torque, $T_P$	43.3	lb-ft
Motor Constant, $K_M$	1.70	lb-ft/ $\sqrt{W}$
Number of Poles	20	
Weight	22	lbs (max)
Motor Inertia, $J_M$	$2.27 \times 10^{-2}$	lb-ft-s <sup>2</sup>
Friction Torque, $T_F$	0.60	lb-ft
Electrical Time Constant, $\tau_E$	2.2	ms
Mechanical Time Constant, $\tau_M$	5.81	ms
Temperature Rise, Housed TPR <sup>1</sup>	0.78	°C/W
Ripple Torque, $T_R$	4	max. avg. to peak (%)
Winding Constants	Value	Units
Torque Sensitivity, $K_T$	1.90	lb-ft/amp
Back EMF, $K_E$	2.57	V per rad/s
Terminal Resistance, $R_M$	1.25	ohms (nom)
Terminal Inductance, $L_M$	2.8	mH (nom)
Voltage, Stalled at Peak Torque, $V_P$	28.5	volts
Amps at Peak Torque, $I_P$	22.8	amps

Brush Motors

### D-7200-C-1ES Typical Outline Drawing



Dimensions are in inches