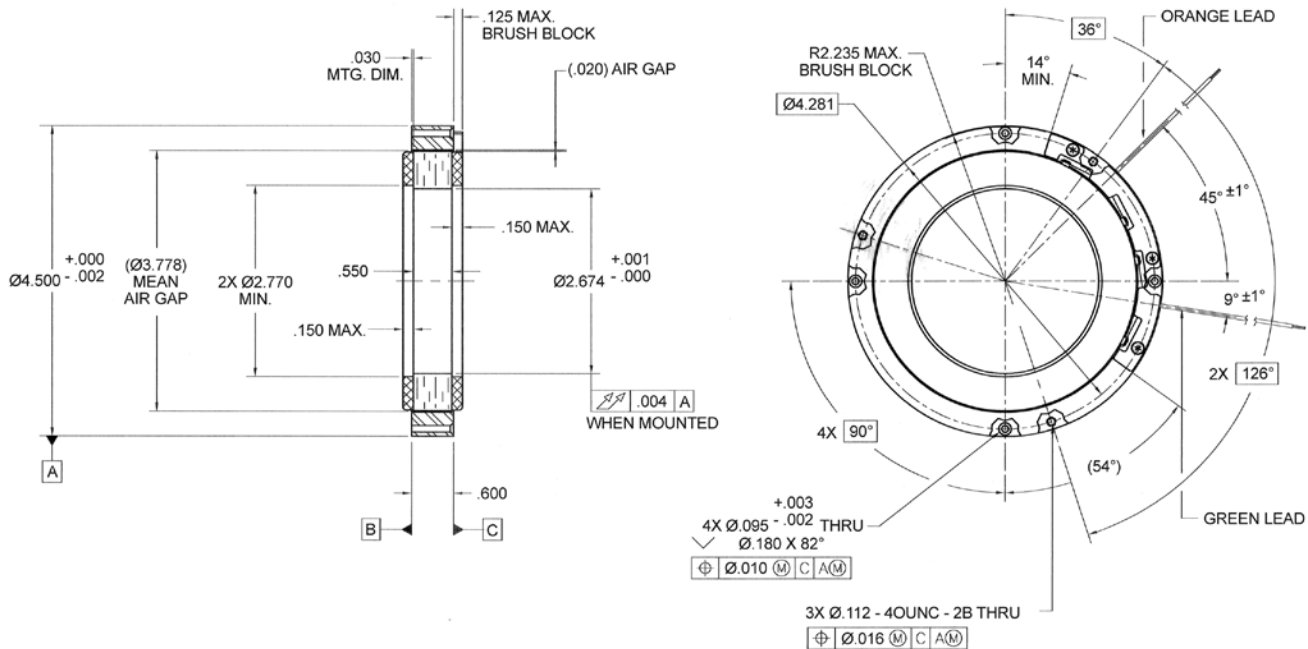


# Brush Motors

## D-4500-B-1AS SPECIFICATIONS @ 25°C

Size Constants	Value	Units
Peak Torque, $T_P$	305	oz-in
Motor Constant, $K_M$	50	oz-in/ $\sqrt{W}$
Number of Poles	20	
Weight	26	oz (nom)
Motor Inertia, $J_M$	8.50E-02	oz-in-s <sup>2</sup>
Friction Torque, $T_F$	5	oz-in
Electrical Time Constant, $\tau_E$	0.353	ms
Mechanical Time Constant, $\tau_M$	4.83	ms
Temperature Rise, Housed TPR <sup>1</sup>	2.4	° C/W
Ripple Torque, $T_R$	5	max. avg. to peak (%)
Winding Constants	Value	Units
Torque Sensitivity, $K_T$	92	oz-in/amp
Back EMF, $K_E$	0.650	V per rad/s
Terminal Resistance, $R_M$	3.4	ohms (nom)
Terminal Inductance, $L_M$	1.2	mH (nom)
Voltage, Stalled at Peak Torque, $V_P$	11.2	volts
Amps at Peak Torque, $I_P$	3.31	amps

### D-4500-B-1AS Typical Outline Drawing



Dimensions are in inches