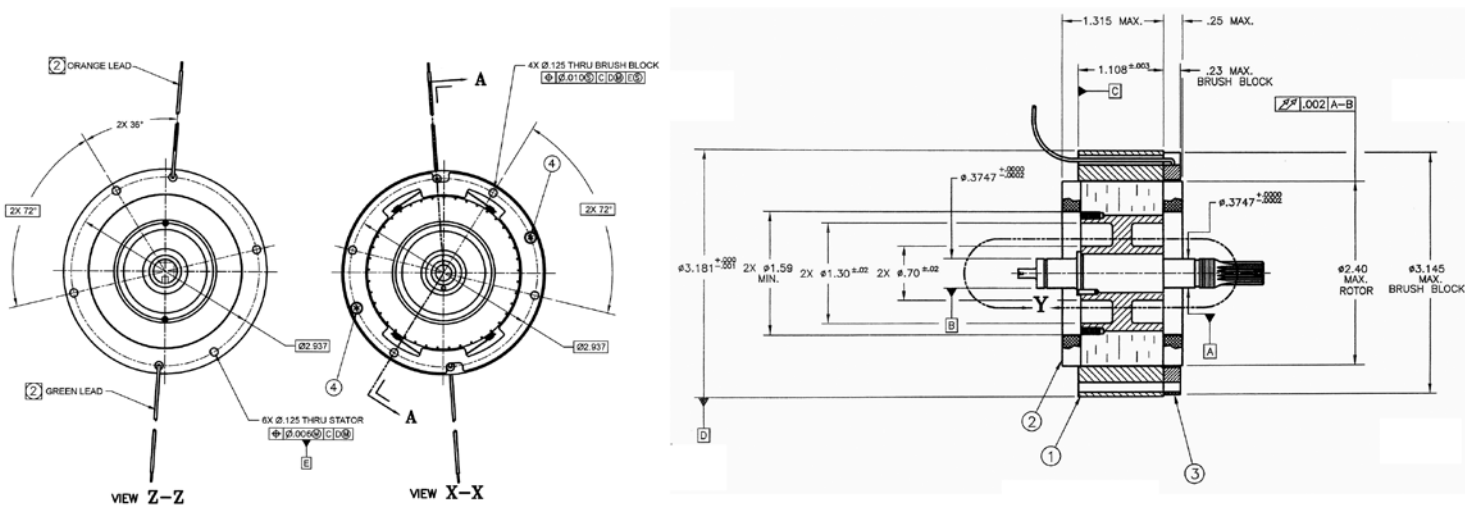


## D-3180-C-2AE SPECIFICATIONS @ 25°C

Size Constants	Value	Units
Peak Torque, $T_P$	445	oz-in
Motor Constant, $K_M$	27.6	oz-in/ $\sqrt{W}$
Number of Poles	10	
Weight	36	oz (nom)
Motor Inertia, $J_M$	3.50E-02	oz-in-s <sup>2</sup>
Friction Torque, $T_F$	10	oz-in
Electrical Time Constant, $\tau_E$	0.769	ms
Mechanical Time Constant, $\tau_M$	6.51	ms
Temperature Rise, Housed TPR <sup>1</sup>	5	° C/W
Ripple Torque, $T_R$	7	max. avg. to peak (%)
Winding Constants	Value	Units
Torque Sensitivity, $K_T$	44.5	oz-in/amp
Back EMF, $K_E$	0.314	V per rad/s
Terminal Resistance, $R_M$	2.60	ohms (nom)
Terminal Inductance, $L_M$	2	mH (nom)
Voltage, Stalled at Peak Torque, $V_P$	24	volts
Amps at Peak Torque, $I_P$	9.2	amps

### D-3180-C-2AE Typical Outline Drawing



Dimensions are in inches