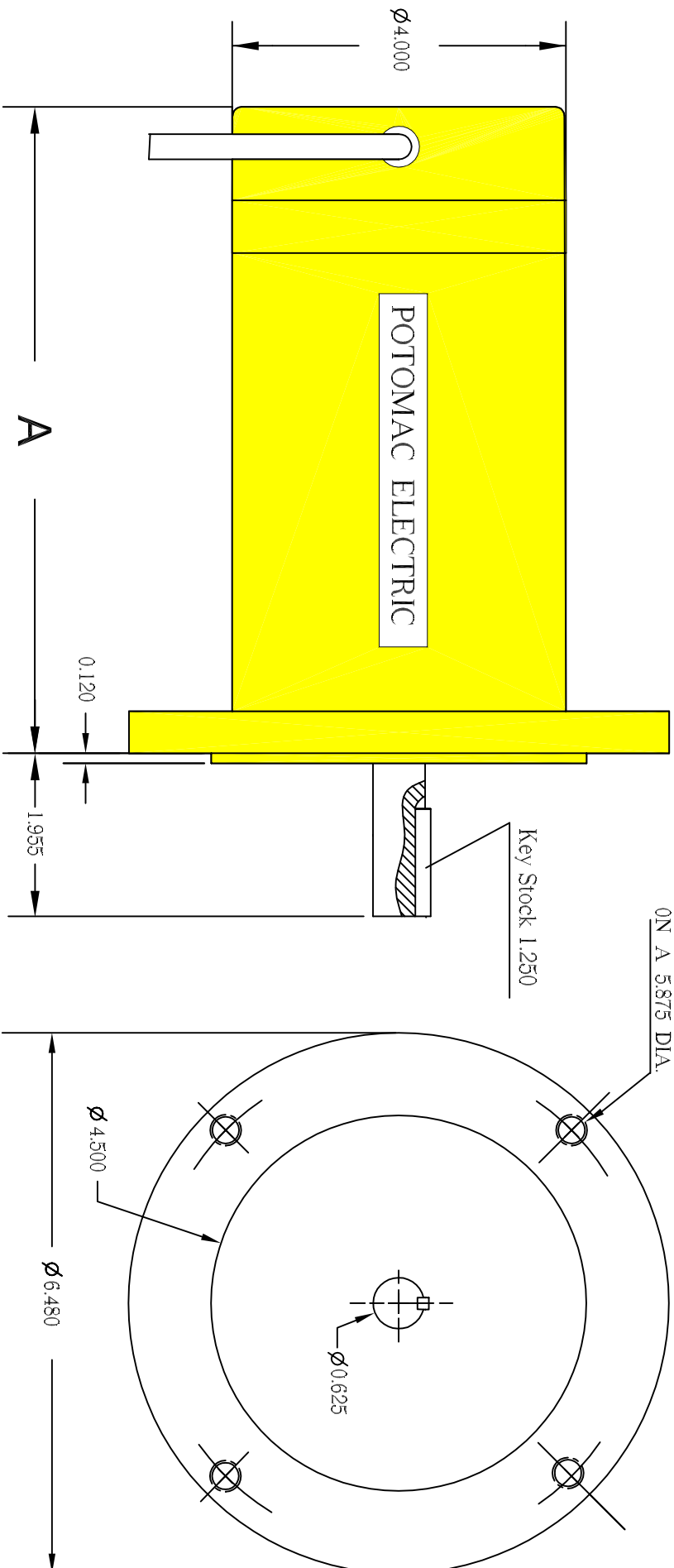


**“OVERKILL” SERIES DC SERVOMOTORS**  
**MOTORS COME IN THREE LENGTH SIZES**  
**DATA SHEET BELOW DEPICTS THE MIDDLE SIZE MOTOR**  
**MXX4300.CE (4 inch diameter)**

SYM	PARAMETER	UNITS	NOMINAL	MIN	MAX
<b>T<sub>pk</sub></b>	Torque, peak rated	oz.in.	2500	-	-
<b>T<sub>C</sub></b>	Torque, continuous at 40°C ambient	oz.in.	-	450	-
<b>K<sub>T</sub></b>	Torque sensitivity	oz.in./AMP	56.2	53.1	59.4
<b>R<sub>a</sub></b>	Resistance of armature at 25°C	ohms	0.77	0.76	0.78
<b>L<sub>a</sub></b>	Inductance of armature at 1000 Hz	millihenrys	1.11	0.9	1.44
<b>I<sub>p</sub></b>	Amps at peak torque	amps	48.0	-	-
<b>E<sub>p</sub></b>	Maximum terminal voltage	volts	115	-	-
<b>K<sub>V</sub></b>	Volts back EMF	volts/KRMP	36	34	38
<b>F<sub>I</sub></b>	Viscous friction coefficient	oz.in./KRMP	16		
<b>T<sub>f</sub></b>	Static friction torque	oz.in.	15		
<b>T<sub>R</sub></b>	Cogging torque at zero excitation	oz.in.	+/- 5%		
<b>J<sub>m</sub></b>	Moment of inertia - motor/tach	oz.in.sec <sup>2</sup>	0.17	-	-
<b>τ<sub>m</sub></b>	Time constant, mechanical -	millisec	4.91		
<b>τ<sub>e</sub></b>	Time constant, electrical	millisec	1.42		
<b>R<sub>th</sub></b>	Thermal resistance, mounted	deg C/watt	1.2		
<b>τ<sub>th</sub></b>	Thermal time constant	minutes	30		
<b>θ<sub>a</sub></b>	Armature temp., max allowable	deg C	150 <sup>o</sup>		
<b>K<sub>vt</sub></b>	Tachometer sensitivity	volts/KRPM	3.0	2.7	3.3
<b>R<sub>t</sub></b>	Tachometer resistance	ohms	62		
	Tachometer ripple volts	% of DC volts,	3	1.5	3
	Tachometer test filter & R.P.M.		1kHz @1000 R.P.M.		
	Motor/tach torsional res. freq.	hertz	-		
<b>W</b>	Weight	lbs.	15		

# "OVERKILL" SERIES 4" DC SERVOMOTORS

#3/8-16 UNC-2B  
4 HOLES EQ.SP.  
ON A 5.875 DIA.



DIMENSION CHART OF MOTOR LENGTH - SIZE "A" (INCHES)

TYPICAL CONFIGURATIONS	MOTOR-ENCODER	MOTOR-TACH.	MOTOR-TACH-ENCODER
4100	6.300	6.300	7.550
4200	7.750	7.750	9.000
4300	9.200	9.200	10.450