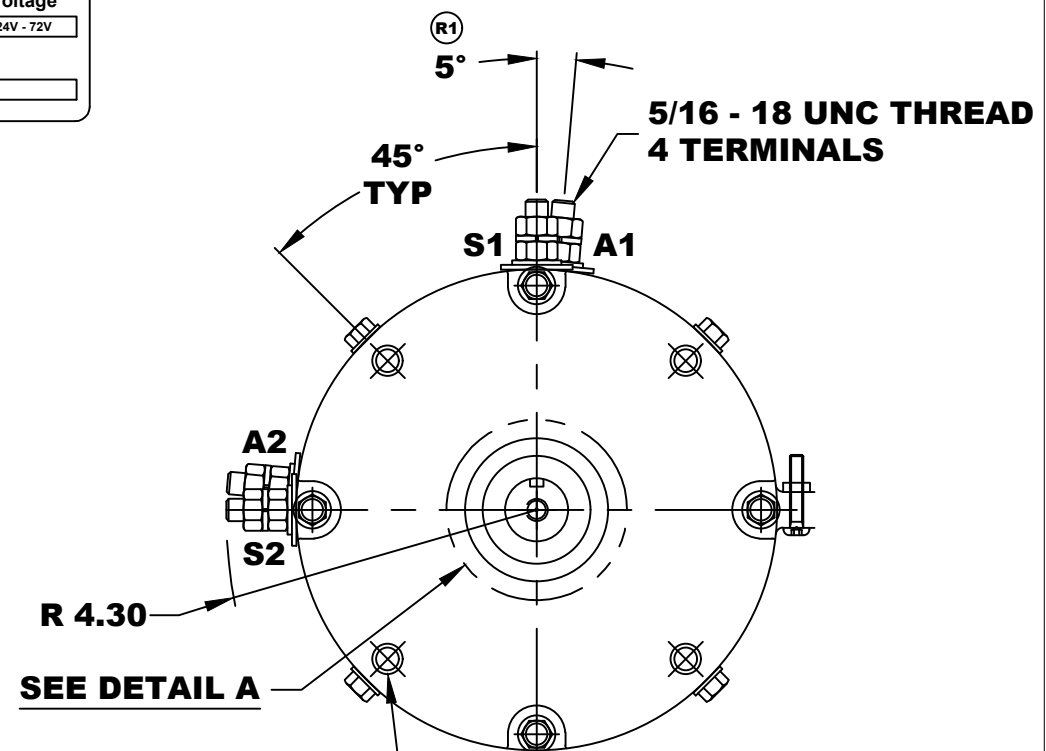
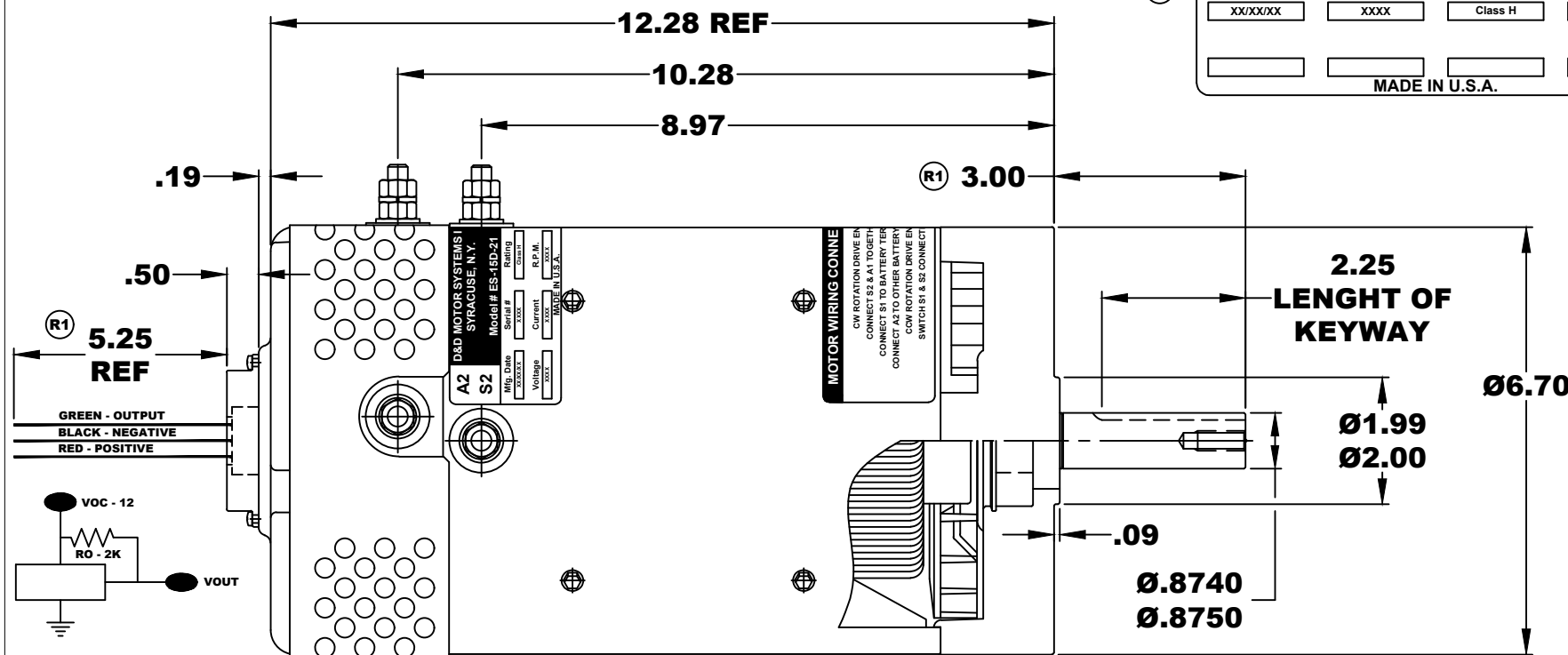


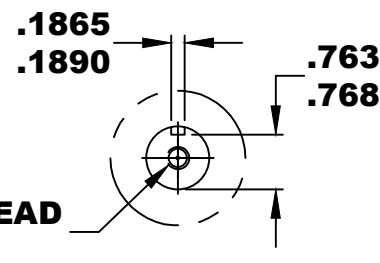
<b>A2</b>	<b>D&amp;D MOTOR SYSTEMS INC.</b>		<b>A1</b>
<b>S2</b>	<b>SYRACUSE N.Y.</b>		<b>S1</b>
<b>Model # ES-15D-21</b>			
Mfg. Date	Serial #	Rating	Voltage
XX/XX/XX	XXXX	Class H	24V - 72V
MADE IN U.S.A.			

**TORQUE SPECIFICATION FOR  
POWER CABLE SECURING TOP NUTS  
5/16-18 UNC - 110 IN / LBS MAX**



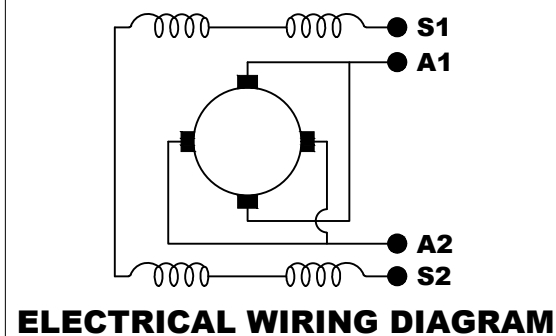
**SPEED SENSOR ELECTRICAL SPECIFICATION:**

- 4.5V TO 24V OPERATING VOLTAGE
- 20°C TO 85°C OPERATING TEMPERATURE
- CURRENT SINKING UP TO 25mA
- AN EXTERNAL OUTPUT PULL UP RESISTOR IS REQUIRED
- SENSOR IS DESIGNED TO OPERATE WITH 4 N/S POLEPAIRS
- THE OPERATIONAL DISTANCE BETWEEN THE MAGNET AND THE HOUSING, INCLUDING ANY RUNOUT SHOULD NOT EXCEED .030 INCHES



**DETAIL A**

**MOTOR WEIGHT: 63 LBS  
CLASS "H" INSULATION (R2)  
PERFORMANCE SPEC: 21 / K-254**



**MOTOR WIRING CONNECTIONS:**  
**CW ROTATION DRIVE END**  
**CONNECT S2 & A1 TOGETHER**  
**CONNECT S1 TO BATTERY TERMINAL**  
**CCW ROTATION DRIVE END**  
**CONNECT A2 TO OTHER BATTERY TERMINAL**  
**CONNECT S2 TO BATTERY TERMINAL**

**THIS PRINT IS THE PROPERTY OF D&D MOTOR SYSTEMS INC.**

DO NOT SCALE  
 WORK TO DIMENSIONS  
 TOLERANCES UNLESS OTHERWISE SPECIFIED ARE AS FOLLOWS

.XX	_____	.01
.XXX	_____	.005
.XX ROUGH CASTING	_____	.03
HOLES	_____	-.001 / +.006
ANGLES	_____	0°30"

<b>D &amp; D MOTOR SYSTEMS INC</b>				
<b>MOTOR OUTLINE</b>				
SIZE	DRAWN DATE	RELEASE DATE	DWG NO. / PART NO.	REV
B	1-28-03		ES-15D-21 (R2)	R2
SCALE	DRAWN BY	REV DATE		
STF	MJG	11-15-05		