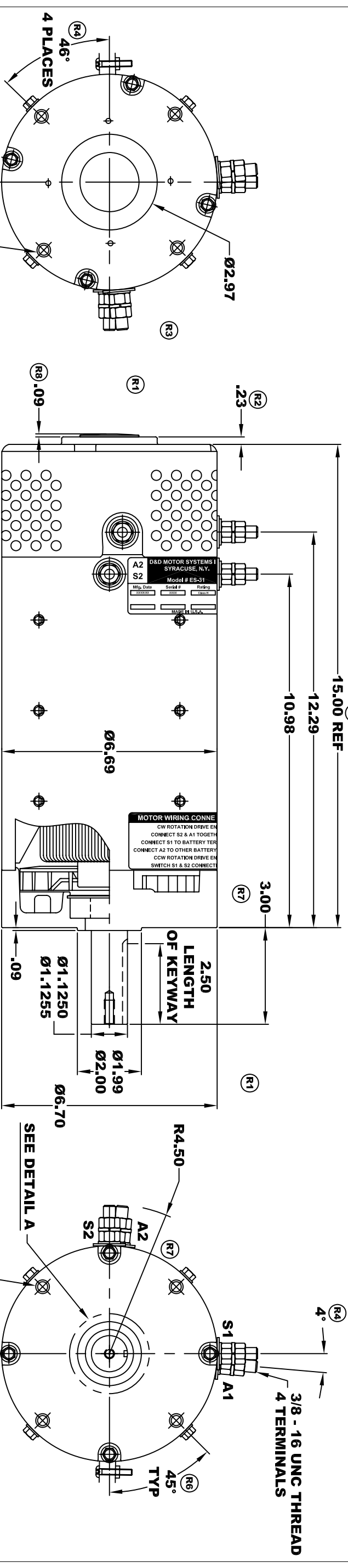


<b>D&amp;D MOTOR SYSTEMS INC.</b>			
SYRACUSE N.Y.			
<b>A2</b>	<b>A1</b>	<b>Model # ES-31</b>	
<b>S2</b>			<b>S1</b>
Mfg. Date	Serial #	Rating	Voltage
XXXXXX	XXXX	CLASS -1	36 / 48 / 72
MADE IN U.S.A.			

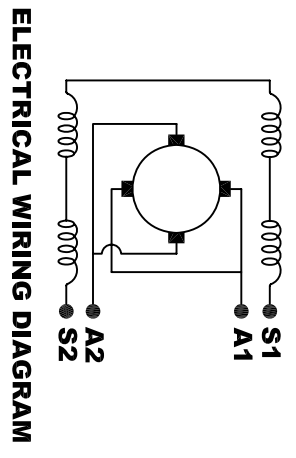
**TORQUE SPECIFICATION FOR  
POWER CABLE SECURING TOP NUTS  
3/8-16 UNC - 140 IN / LBS MAX**



**Ø 3/8 - 16 UNC THREAD  
TAPPED THRU  
.03-.05 x 45° CHAMFER  
4 PLACES, ON A Ø5.875 B. C.**

**5/16 - 18 UNC THREAD  
▽ .75  
DETAIL A**

**Ø 3/8 - 16 UNC THREAD  
▽ .65 MINIMUM  
BREAK THRU PERMISSIBLE  
.03-.05 x 45° CHAMFER  
4 PLACES, ON A Ø5.875 B. C.**



**ELECTRICAL WIRING DIAGRAM**

**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**  
**SWITCH S1 & S2 CONNECTIONS**

**MOTOR WEIGHT: 83 LBS**  
**CLASS "H" INSULATION**  
**PERFORMANCE SPEC: 13**

**R4 REVISE VIEW**

**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.
B	8-19-02		ES-31
SCALE	STF	DRAWN BY	REV DATE
		MJG	8-1-13
			REV
			R8