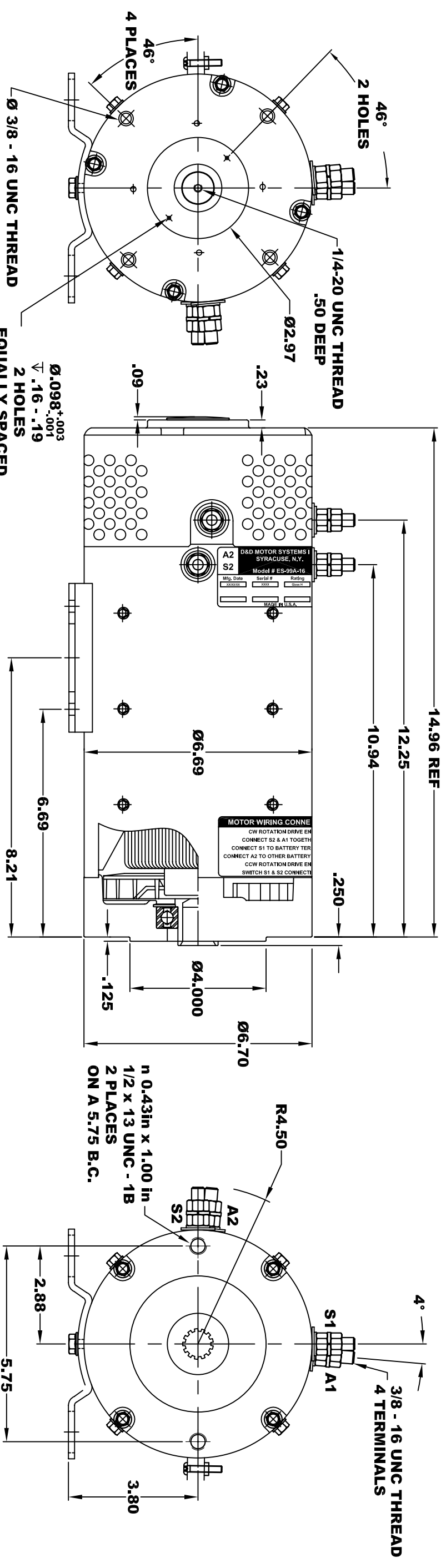


|                                   |           |                          |               |
|-----------------------------------|-----------|--------------------------|---------------|
| <b>D&amp;D MOTOR SYSTEMS INC.</b> |           |                          |               |
| <b>SYRACUSE N.Y.</b>              |           |                          |               |
| <b>A2</b>                         | <b>A1</b> | <b>Model # ES-99A-16</b> |               |
| <b>S2</b>                         | <b>S1</b> | <b>Serial #</b>          | <b>Rating</b> |
| Mfg. Date                         | xxxxxx    | xxxx                     | CLASS-H       |
| xxxxxx                            | xxxx      | xx                       | xx            |
| MADE IN U.S.A.                    |           |                          |               |

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



**INTERNAL INVOLUTE SPLINE SPECIFICATION**  
 FILET ROOT SIDE FIT (PER A.N.S.I. B92.1 CLASS 5)

|                |           |
|----------------|-----------|
| NO. OF TEETH   | 13        |
| SPLINE PITCH   | 16 / 32   |
| PRESSURE ANGLE | 30°       |
| BASE Ø         | .7036 REF |
| PITCH Ø        | .8125 REF |
| MAJOR Ø        | .901      |
| FORM Ø         | .879      |
| MINOR Ø        | .754      |

|   |      |   |
|---|------|---|
| ⊙ | .010 | A |
| ⊓ | .010 | B |

**CIRCULAR SPACE WIDTH**  
 MAX ACTUAL .1008  
 MIN EFFECTIVE .XXXX  
 MAX DIMENSION BETWEEN TWO PINS .XXXX  
 PIN Ø .XXXX

**ELECTRICAL WIRING DIAGRAM**

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

**MOTOR WEIGHT: 83 LBS**  
 CLASS "H" INSULATION  
 PERFORMANCE SPEC: 16

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 XX ROUGH CASTING .03  
 HOLES .001 / +.006  
 ANGLES 0°30"

**D & D MOTOR SYSTEMS INC**  
**MOTOR OUTLINE**

|       |            |              |                    |          |
|-------|------------|--------------|--------------------|----------|
| SIZE  | DRAWN DATE | RELEASE DATE | DWG NO. / PART NO. | REV      |
| B     | 8-28-09    |              | ES-99A-16          |          |
| SCALE | STF        | DRAWN BY     | MJG                | REV DATE |