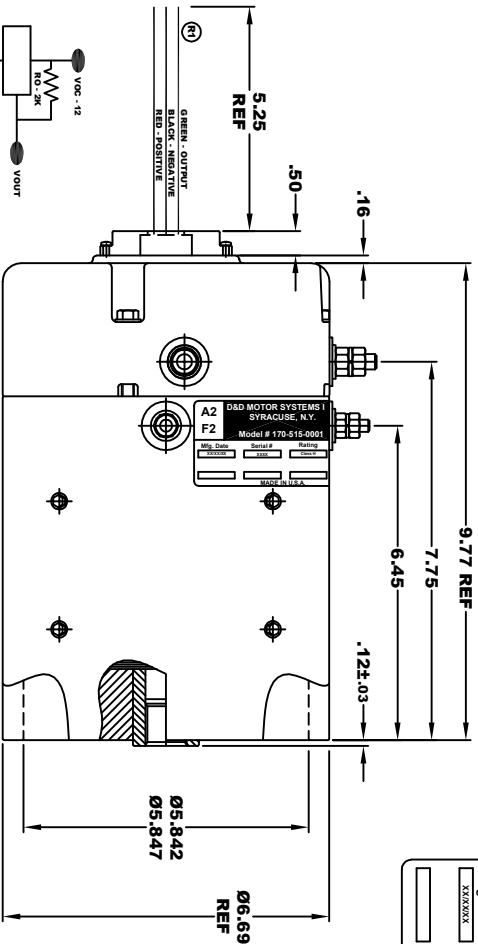


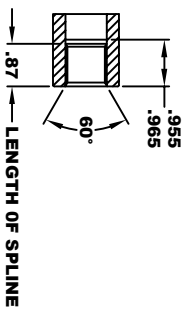
<b>A2</b>	<b>A1</b>
<b>D&amp;D MOTOR SYSTEMS INC.</b>	
<b>SYRACUSE N.Y.</b>	
Model # 170-515-0001	
<b>F2</b>	<b>F1</b>
Mfg Date	Serial #
XXXXXX	XXXX
Rating	Voltage
CLASS II	36.748
MADE IN U.S.A.	



**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

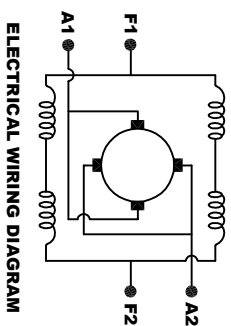
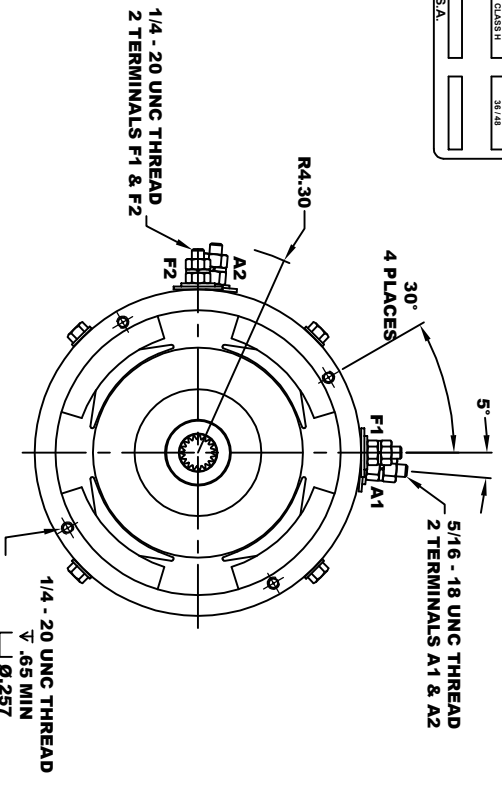
**INTERNAL INVOLUTE SPLINE SPECIFICATION**  
 CLASS 5 FILLET ROOT SIDE FIT (PER A.N.S.I. B92.1)

NO. OF TEETH \_\_\_\_\_ 19  
 SPLINE PITCH \_\_\_\_\_ 24/48  
 PRESSURE ANGLE \_\_\_\_\_ 45°  
 BASE Ø \_\_\_\_\_ .5597 REF  
 PITCH Ø \_\_\_\_\_ .7916 REF  
 MAJOR Ø \_\_\_\_\_ .850 - .859  
 FORM Ø \_\_\_\_\_ .835  
 MINOR Ø \_\_\_\_\_ .767 - .772  
 CIRCULAR SPACE WIDTH \_\_\_\_\_ .0764  
 EFFECTIVE SPACE WIDTH \_\_\_\_\_ .0738  
 MAX. DIMENSION BETWEEN  
 TWO PINS \_\_\_\_\_ .6714  
 PIN Ø \_\_\_\_\_ .0800  
 SPLINE HARDNESS TO BE R/C 26-34



MOTOR WEIGHT: 53 LBS  
 CLASS "H" INSULATION  
 PERFORMANCE SPEC: 14

**TORQUE SPECIFICATION FOR**  
**POWER CABLE SECURING TOP NUTS**  
 5/16-18 UNC (A1 / A2) - 110 IN / LBS MAX  
 1/4-20 UNC (F1 / F2) - 50 IN / LBS MAX



**MOTOR WIRING CONNECTIONS:**  
 CW ROTATION DRIVE END  
 CONNECT A1 & F1 TO ONE BATTERY TERMINAL  
 CONNECT A2 & F2 TO OTHER BATTERY TERMINAL  
 CCW ROTATION DRIVE END  
 SWITCH F1 & F2 CONNECTIONS

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	12-16-10	12-20-10	170-515-0001
SCALE	STF	DRAWN BY	REV DATE
		MJG	11-28-23