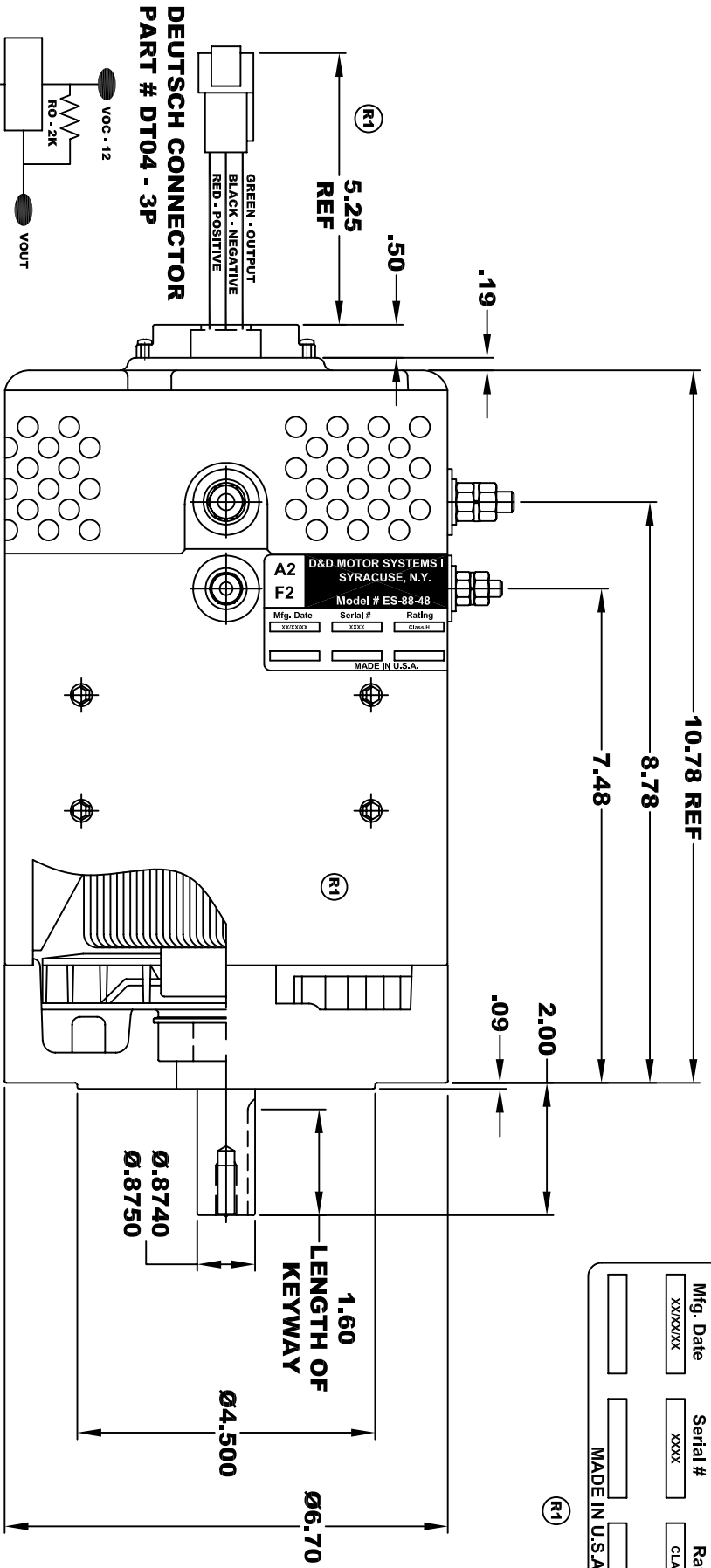


D&D MOTOR SYSTEMS INC.			
SYRACUSE N.Y.			
A2		A1	
F2		F1	
Model # ES-88-48			
Mfg. Date	Serial #	Rating	Voltage
XXXXXX	XXXX	CLASS-H	XX
MADE IN U.S.A.			

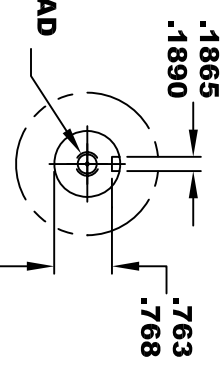
**TORQUE SPECIFICATION FOR
POWER CABLE SECURING TOP NUTS**
5/16-18 UNC (A1 / A2) - 110 IN / LBS MAX
1/4-20 UNC (F1 / F2) - 50 IN / LBS MAX



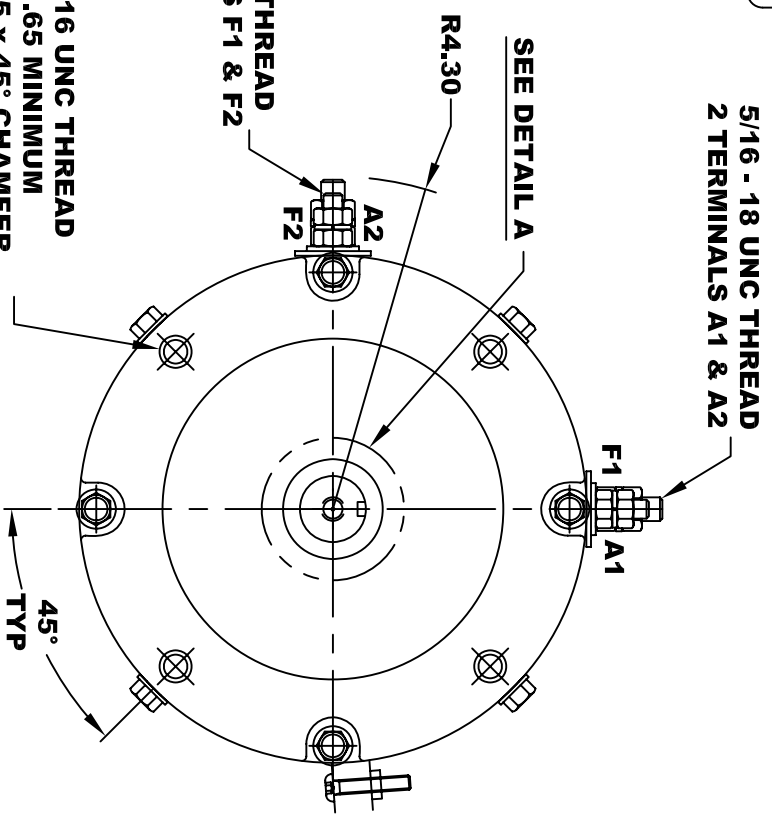
- SPEED SENSOR ELECTRICAL SPECIFICATION:**
- 4.5V TO 24V OPERATING VOLTAGE
 - 20°C TO 85°C OPERATING TEMPERATURE
 - CURRENT SINKING UP TO 25mA
 - AN EXTERNAL OUTPUT PULL UP RESISTOR IS REQUIRED
 - SENSOR IS DESIGNED TO OPERATE WITH 4 N/S POLEPAIRS
 - THE OPERATIONAL DISTANCE BETWEEN THE MAGNET AND THE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

5/16 x 18 UNC THREAD
▽ .75

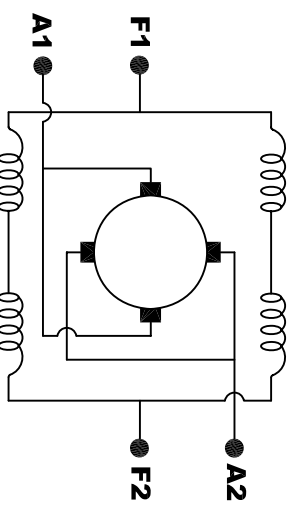
DETAIL A



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



MOTOR WEIGHT: 50 LBS
CLASS "H" INSULATION
PERFORMANCE SPEC: 48



ELECTRICAL WIRING DIAGRAM

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"

D & D MOTOR SYSTEMS INC			
MOTOR OUTLINE			
SIZE	DRAWN DATE	RELEASE DATE	DWG NO. / PART NO.
B	2-6-08		ES-88-48
SCALE	STF	DRAWN BY	REV DATE
		MJG	R1 3-4-13