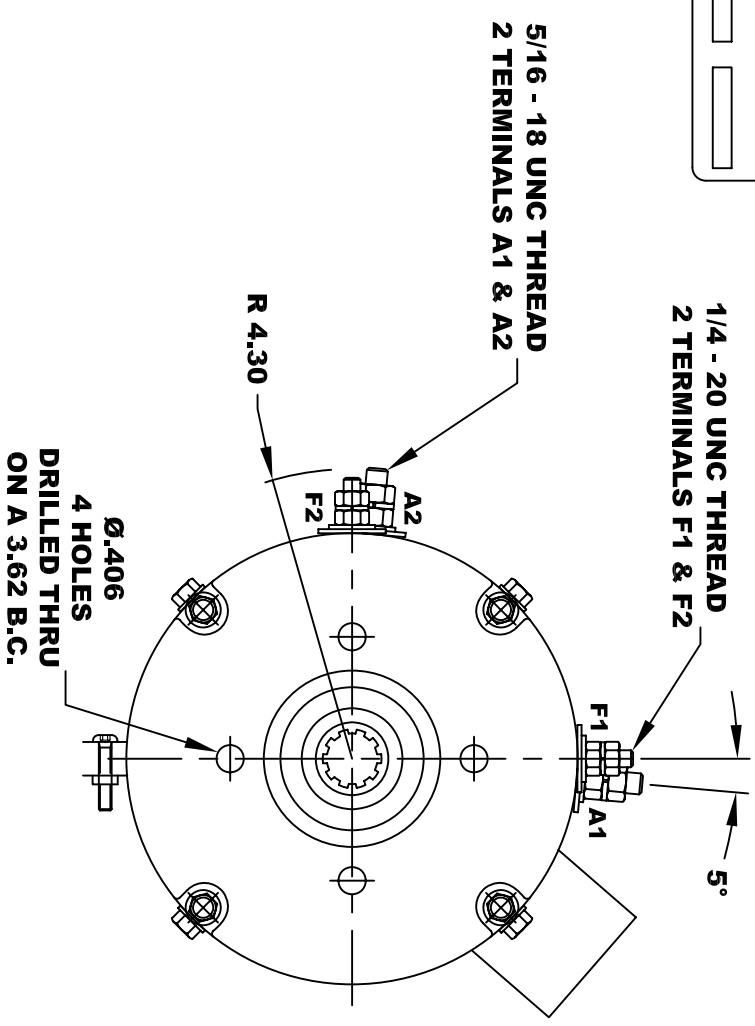
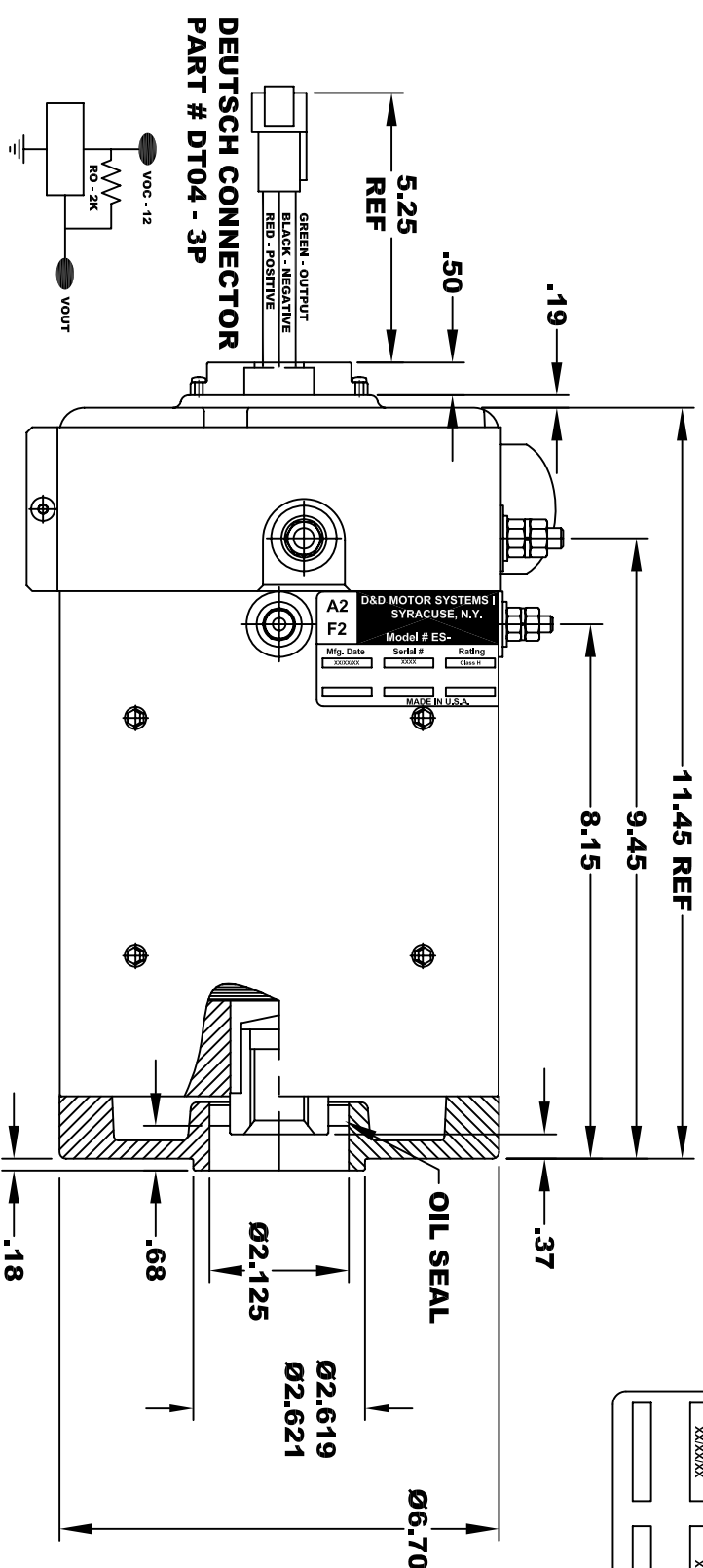


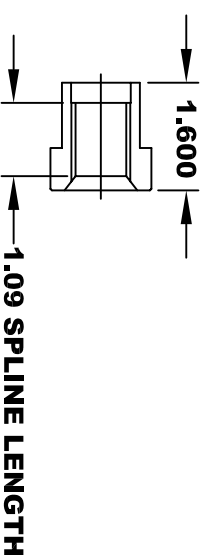
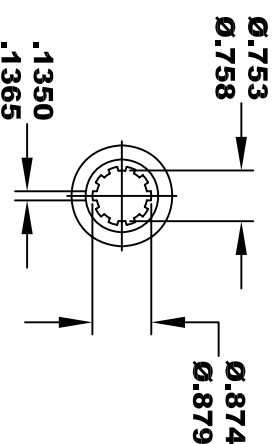
DRAFT

D&D MOTOR SYSTEMS INC.			
SYRACUSE N.Y.			
A2	Model # ES-	A1	
F2		F1	
Mfg. Date	Serial #	Rating	Voltage
XXXXXX	XXXX	CLASS H	36 / 48
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

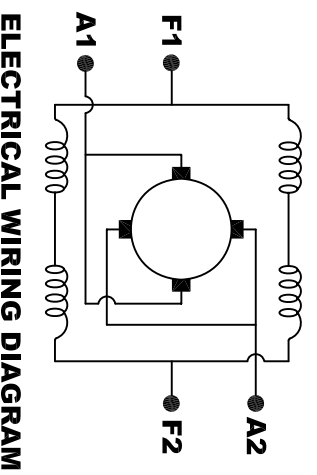


SPEED SENSOR ELECTRICAL SPECIFICATION:
 -4.5V TO 24V OPERATING VOLTAGE
 -20°C TO 85°C OPERATING TEMPERATURE
 -CURRENT SINKING UP TO 25mA
 -AN EXTERNAL OUTPUT PULL UP RESISTOR IS REQUIRED
 -SENSOR IS DESIGNED TO OPERATE BETWEEN THE MAGNET
 AND THE HOUSING, INCLUDING ANY RUNOUT
 SHOULD NOT EXCEED .030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



**10 TOOTH
INTERNAL SPLINE
HARDNESS OF SPLINE
TO BE R/C 46 - 53 (.02 DEPTH MIN)**

**MOTOR WEIGHT: 61 LBS
CLASS "H" INSULATION
PERFORMANCE SPEC: 50**



ELECTRICAL WIRING DIAGRAM

MOTOR WIRING CONNECTIONS:
 CW ROTATION DRIVE END
 CONNECT A1 & F1 TO ONE BATTERY TERMINAL
 CCW ROTATION DRIVE END
 CONNECT A2 & F2 TO OTHER BATTERY TERMINAL
 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	5-22-15		ES- DRAFT
SCALE	STF	DRAWN BY	MJG
			REV DATE