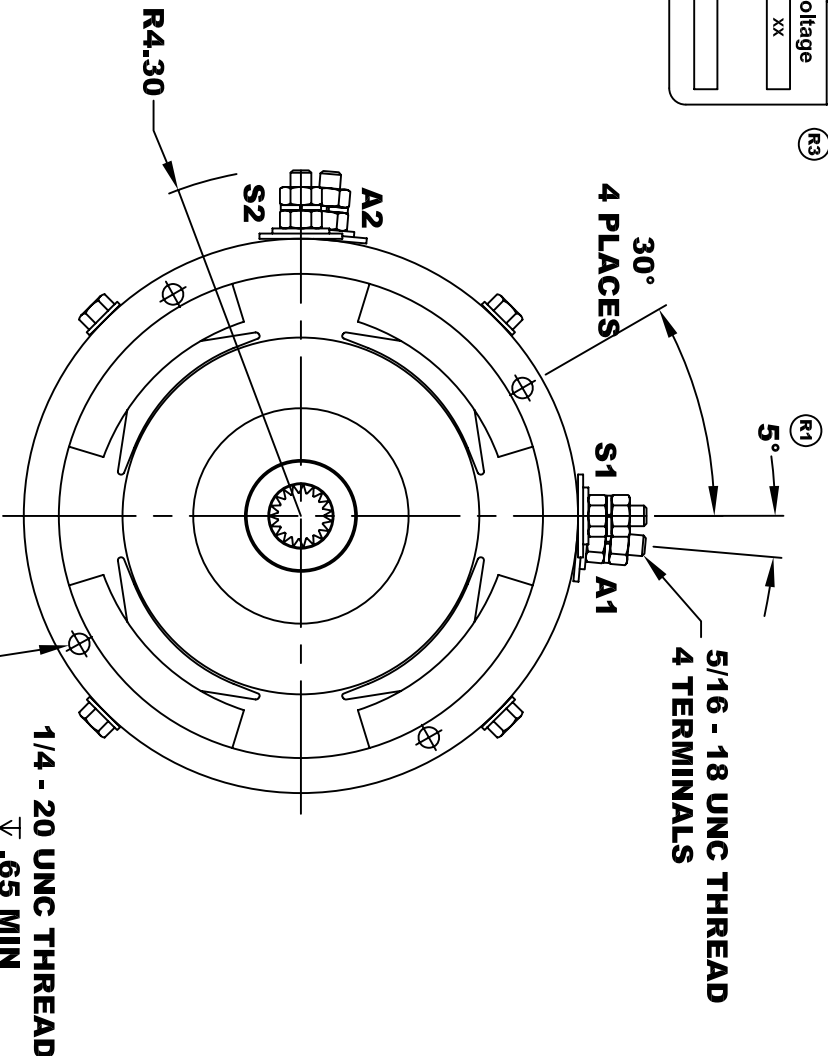


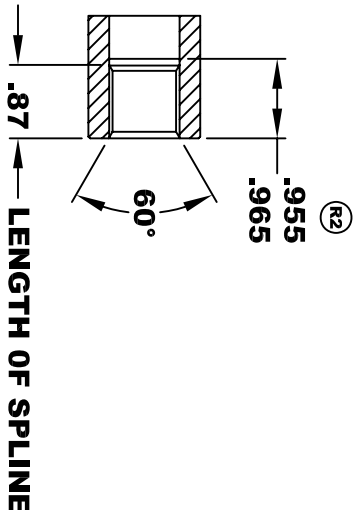
D&D MOTOR SYSTEMS INC.			
SYRACUSE N.Y.			
A2	Model # ES-5E		A1
S2	Serial #	Rating	S1
Mfg. Date	XXXX	CLASS II	Voltage
XXXXXX			XX
MADE IN U.S.A.			

**TORQUE SPECIFICATION FOR
POWER CABLE SECURING TOP NUTS
5/16-18 UNC - 110 IN / LBS MAX**

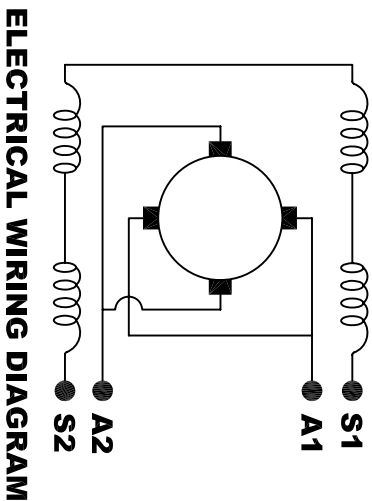


**INTERNAL INVOLUTE SPLINE SPECIFICATION
CLASS 5 FILLET ROOT SIDE FIT (PER A.N.S.I. B92.1)**

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 57 LBS
CLASS "H" INSULATION
PERFORMANCE SPEC: 21**



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

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	9-11-03		ES-5E
SCALE	STF	DRAWN BY	MJG
			REV DATE
			2-1-13