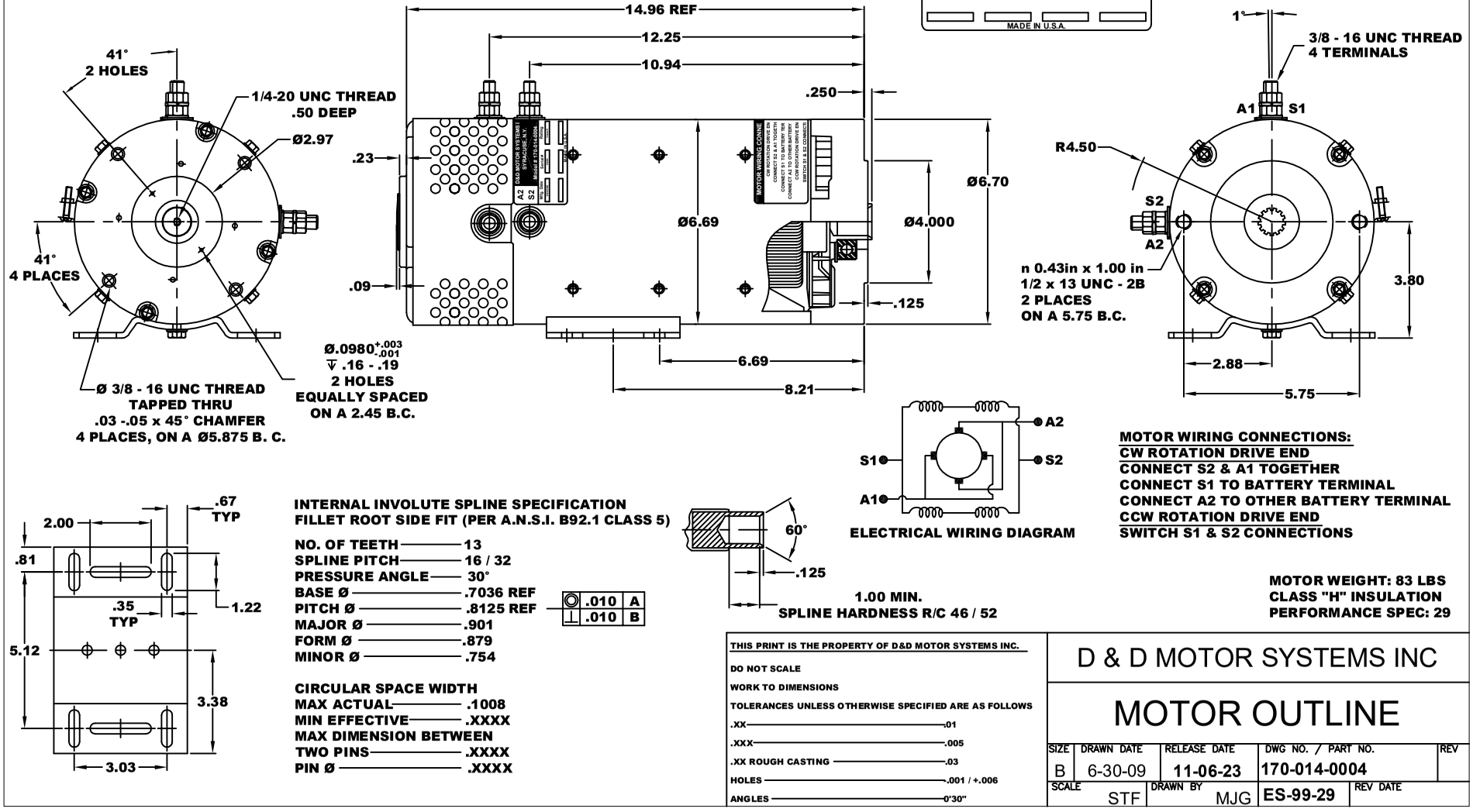
A2
S2
D&D MOTOR SYSTEMS INC.
SYRACUSE N.Y.
A1
S1
Model # 170-014-0004
Mfg. Date
Serial #
Rating
Voltage
XXXX/XX
XXXX
CLASS-H
24V -72V
MADE IN U.S.A.
TORQUE SPECIFICATION FOR
POWER CABLE SECURING TOP NUTS
3/8-16 UNC - 140 IN / LBS MAX
41°
2 HOLES
1/4-20 UNC THREAD
.50 DEEP
Ø2.97
41°
4 PLACES
Ø 3/8 - 16 UNC THREAD
TAPPED THRU
.03 -.05 x 45° CHAMFER
4 PLACES, ON A Ø5.875 B. C.
14.96 REF
12.25
10.94
.250
.23
.09
Ø6.69
Ø6.70
Ø4.000
.125
6.69
8.21
Ø.0980 +.003 -.001
.16 - .19
2 HOLES
EQUALLY SPACED
ON A 2.45 B.C.
1°
3/8 - 16 UNC THREAD
4 TERMINALS
A1
S1
R4.50
S2
A2
n 0.43in x 1.00 in
1/2 x 13 UNC - 2B
2 PLACES
ON A 5.75 B.C.
3.80
2.88
5.75
A2
S1
S2
A1
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
.67
TYP
2.00
.81
.35
TYP
1.22
5.12
3.38
3.03
INTERNAL INVOLUTE SPLINE SPECIFICATION
FILLET 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
CIRCULAR SPACE WIDTH
MAX ACTUAL .1008
MIN EFFECTIVE .XXXX
MAX DIMENSION BETWEEN
TWO PINS .XXXX
PIN Ø .XXXX
.010 A
.010 B
60°
.125
1.00 MIN.
SPLINE HARDNESS R/C 46 / 52
MOTOR WEIGHT: 83 LBS
CLASS "H" INSULATION
PERFORMANCE SPEC: 29
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 B
DRAWN DATE 6-30-09
RELEASE DATE 11-06-23
DWG NO. / PART NO. 170-014-0004
REV
SCALE STF
DRAWN BY MJG
ES-99-29
REV DATE