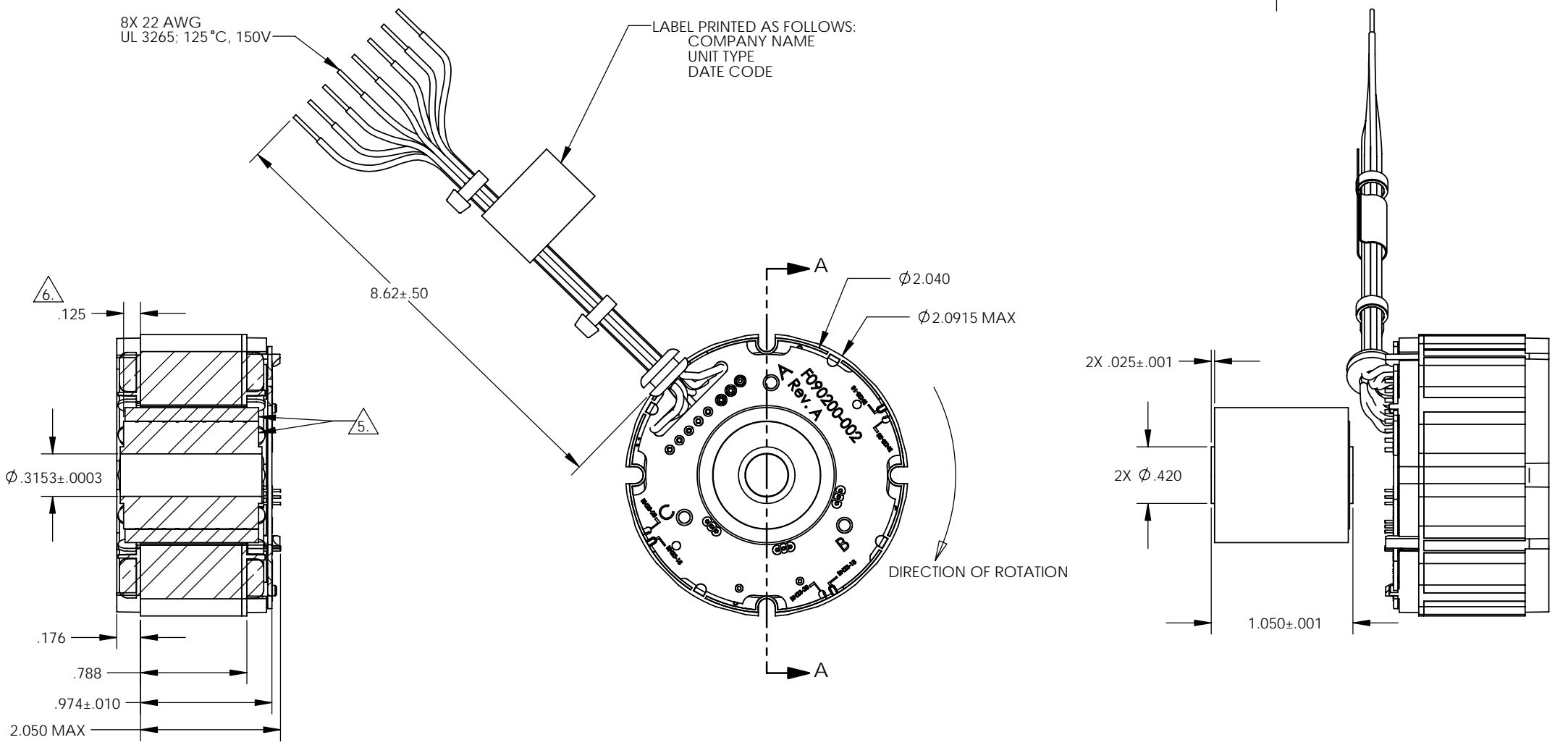


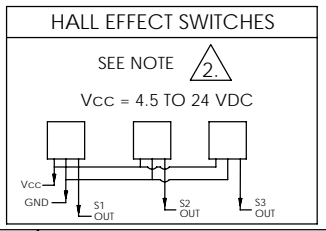
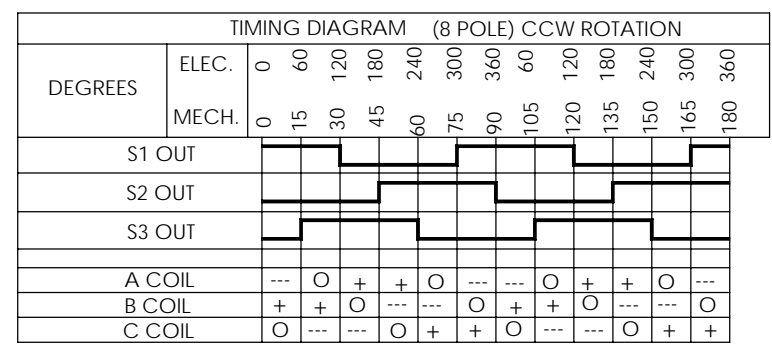
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	NEW DRAWING/NTD 10175		



- NOTES UNLESS OTHERWISE SPECIFIED:
1. INTERPRET DRAWING PER ASME Y14.100.
  2. OPEN COLLECTOR OUTPUTS, USE PULL UP RESISTORS BETWEEN V<sub>CC</sub> AND OUTPUTS.
  3. TESTED AS A MOTOR ASSEMBLY MOUNTED TO 6" X 6" X 1/4" ALUMINUM PLATE, STILL AIR.
  4. MAXIMUM WINDING TEMPERATURE OF 155 °C.
  5. MAGNET RING AND ROTOR CORE: FLUSH ±.002 ON THIS SIDE.
  6. RECOMENDED ROTOR CORE TO STACK MOUNTING DIMENSION.

PERFORMANCE AT 25°C				
PARAMETER	SYMBOL	UNITS	TOLERANCE	VALUE
TERMINAL VOLTAGE	V	VOLTS DC	NOMINAL	24
PEAK TORQUE	T <sub>P</sub>	OZ-IN	MAXIMUM	88
CONTINUOUS STALL TORQUE	T <sub>C</sub> <sup>1</sup>	OZ-IN	MAXIMUM	30.7
NO LOAD SPEED	S <sub>NL</sub>	RPM	NOMINAL	9100
RATED SPEED	S <sub>R</sub>	RPM		6460
RATED TORQUE		OZ-IN	MAXIMUM	29.7
RATED CURRENT		AMPS		7.75
RATED POWER		WATTS		142
TORQUE SENSITIVITY	K <sub>T</sub>	OZ-IN/AMP	±10%	3.40
BEMF CONSTANT	K <sub>E</sub>	VOLTS/KRPM	±10%	2.51
TERMINAL RESISTANCE	R <sub>M</sub>	OHMS	±12%	0.246
TERMINAL INDUCTANCE	L <sub>M</sub>	mH	±30%	0.275
MOTOR CONSTANT	K <sub>M</sub>	OZ-IN/? WATTS	NOMINAL	6.86
SPEED TORQUE GRADIENT		RPM/OZ-IN		88.9
MECHANICAL TIME CONSTANT		msec		3.0
ELECTRICAL TIME CONSTANT		msec		1.12
THERMAL RESISTIVITY		°C/WATT		2.49

TERMINATION TABLE	
COLOR	CONNECTION
VIOLET	A COIL
BLACK	B COIL
GREEN	C COIL
YELLOW	V <sub>CC</sub>
GREY	GROUND
BROWN	S1 OUT
BLUE	S2 OUT
WHITE	S3 OUT



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: DECIMALS .XX ±.010 XXX ±.005 XXXX ±.0005 ANGLES 45°/30° FRACTIONS 1/64	CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE			
	APPROVALS			
	DRAWN	R. PACE	1/31/06	<b>BRUSHLESS D.C. MOTOR</b> <b>OUTLINE</b>
	CHECKED	R. MARTIN	2/10/06	
ENGR	D. THOMPSON	2/10/06		
RELEASED	R. MARTIN	2/14/06		
MATERIAL	MFG ENGR	L. FORRISTER	2/13/06	TITLE BRUSHLESS D.C. MOTOR OUTLINE
FINISH	SHOP ENGR			
DO NOT SCALE DRAWING		SCALE	1.5:1	CAGE CODE 4H618 DWG. NO. BN23-18ZMG-01LH
		SCALE	1.5:1	
		SHEET 1 OF 1		