

**MOTOR DATA @ 230 VAC (SINE)**

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP RATED	1.62
KILOWATTS	KW RATED	1.20
MAX. OPERATING SPEED	N MAX RPM	5000
SPEED @ RATED TORQUE	N RATED RPM	4000
* CONTINUOUS RATED TORQUE @ 4000 RPM	N-LBS[Nm]	25.5[2.9]
* CONTINUOUS LINE CURRENT	N-LBSI[Nm]	30.0[3.4]
PEAK TORQUE	AMP(S)(RMS/Φ)	5.2
PEAK CURRENT	AMP(S)(RMS/Φ)	105.0[11.9]
MAX. THEORETICAL ACCEL.	RAD/SEC <sup>2</sup>	18.9
TORQUE SENSITIVITY	Kt N-LBS/AMP(RMS/Φ)[Nm/AMP(RMS/Φ)]	105.954
BACK EMF (LINE TO LINE)	Vrms/Krpm	5.8[0.66]
D.C. RESISTANCE (P-P)	OHMS	36.6
INDUCTANCE (P-P)	MIHLENRIES	1.5
ROTOR INERTIA	Jm[N-LBS-SEC <sup>2</sup> ][Kg-M <sup>2</sup> ]	0.000991[0.000116]
STATIC FRICTION	Tf	0.5[0.06]

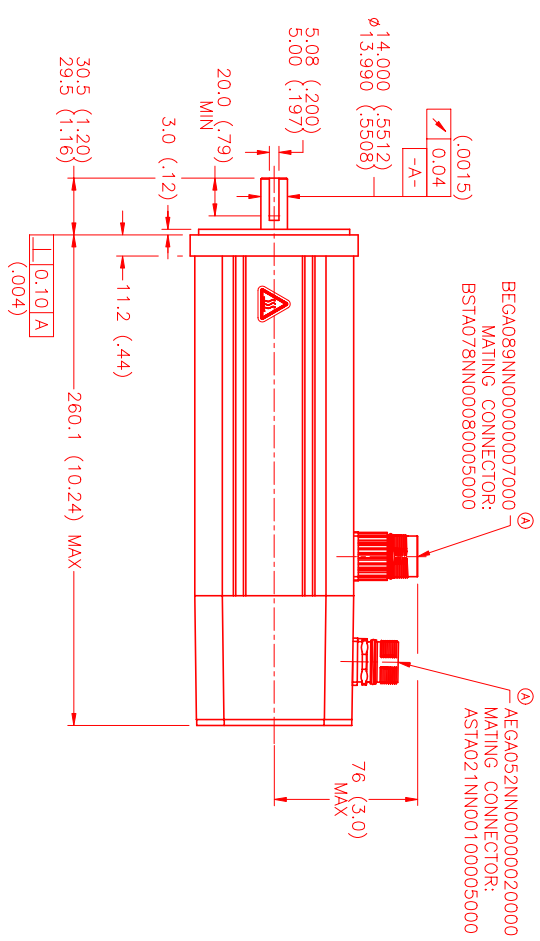
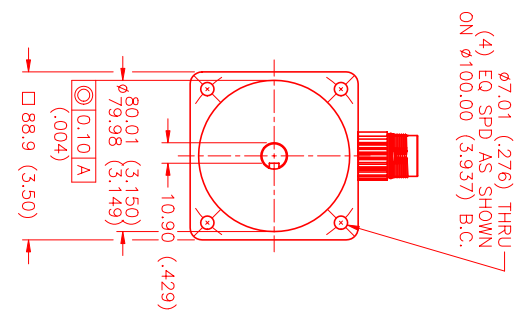
\*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 10" X 10" X 1/4" ALUMINUM HEATSINK. THERMOSTAT IN STATOR WINDINGS WILL OPEN IF WINDING TEMPERATURE EXCEEDS 155°C. THIS ALLOWS FOR AN APPROXIMATE +10% HEADROOM IN THE CONTINUOUS TORQUE RATING BEFORE THERMOSTAT OPENS.

**MECHANICAL NOTES:**

- AXIAL LOAD: 25 LBS MAX
- RADIAL LOAD: 40 LBS MAX @ 1" FROM FACE
- MOTOR SEALED TO IP65.
- MOTOR WEIGHT: 14.2 LBS. [ 6.4 kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)

**FAILSAFE BRAKE:**

MIN HOLDING TORQUE: 60 IN-LBS  
INPUT VOLTAGE: 24 VOLTS



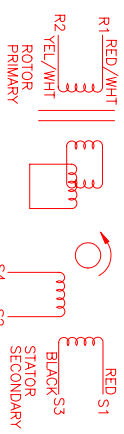
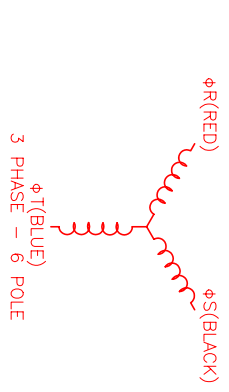
**CONNECTION CHART**

MOTOR/BRAKE/THERM CONN:  
② BEGA089NN0000007000  
(270-00256)

RESOLVER CONNECTOR:  
② AEGA052NN00000020000  
(270-00257)

MOTOR/THERM	WIRE FUNCTION	WIRE COLOR
1	ΦR(U1)	RED
2	PE GND	GRN/YEL
3	ΦT(W1)	BLUE
4	ΦS(V1)	BLACK
A	BRK (+)	DIODE
B	BRK (-)	1N4007
C	THERM	BLACK
D	THERM	BLACK

RESOLVER	WIRE FUNCTION	WIRE COLOR
1	REF(R1)	RED/WHIT
2	REF(R2)	YEL/WHIT
3	REF GND(R2)	BLACK
4	COS GND(S1)	BLACK
5	COS(S3)	RED
6	SIN(S2)	YELLOW
7	SIN GND(S4)	BLUE
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-



RESOLVER IS SET FOR A TB/R AMPPLIER

REV#	DESCRIPTION	DATE	APP'D.
A	E.C.O. - 620	4/10/01	AJS

**REVISIONS**

NO.	PART NUMBER	DESCRIPTION	QTY.
1	BEGA089NN0000007000	MOTOR/BRAKE/THERM CONN	1
2	AEGA052NN00000020000	RESOLVER CONNECTOR	1

UNLESS SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES UNLESS OTHERWISE SPECIFIED:  
FRACTIONS DECIMALS ANGLES  
1/16 1/32 1/64 1/100 1/250 1/500 1/1000 1/2 1/4 1/8 1/16 1/32 1/64 1/100 1/250 1/500 1/1000

DATE: 6/29/00  
DRAWN: AJS  
CHECKED:  
APPROVED:

SCALE: 1/2:1