

MOTOR DATA @ 230 VAC (SINE)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	0.21
KILOWATTS	KW	0.16
MAX. OPERATING SPEED	N MAX	5000
SPEED @ RATED TORQUE	N RATED	4000
* CONTINUOUS RATED TORQUE @ 4000 RPM	IN-LBS [Nm]	3.4 [0.38]
* CONTINUOUS LINE CURRENT	IN-LBS [Nm]	5.0 [0.56]
CONTINUOUS TORQUE	AMP(S) [RMS/Φ]	1.8
PEAK TORQUE	AMP(S) [RMS/Φ]	15.1 [1.7]
PEAK CURRENT	AMP(S) [RMS/Φ]	5.4
MAX. THEORETICAL ACCEL.	RAD/SEC ²	155,670
TORQUE SENSITIVITY	Kt IN-LBS/AMP [Nm/Φ]	2.89 [0.33]
BACK EMF (LINE TO LINE)	Vrms/Krpm	18.2
D.C. RESISTANCE (P-P)	OHMS	8.4
INDUCTANCE (P-P)	MILLIHENRIES	11.6
ROTOR INERTIA	Jm IN-LBS-SEC ² [Kg-M ²]	0.000097 [0.0000109]
STATIC FRICTION	Tf IN-LBS [Nm]	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:

1. AXIAL LOAD: 15 LBS MAX
2. RADIAL LOAD: 20 LBS MAX @ 1" FROM FACE
3. MOTOR SEALED TO IP65.
4. MOTOR WEIGHT: 2.9 LBS [1.3 Kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
7. MILLIMETERS (INCHES)

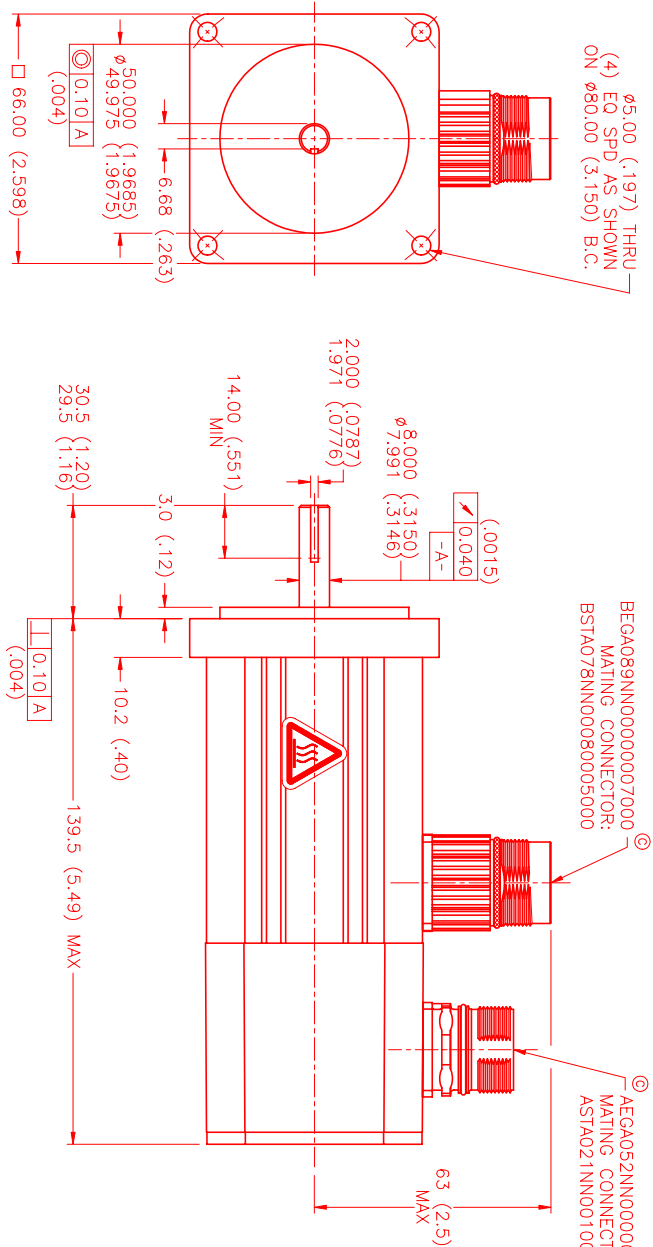
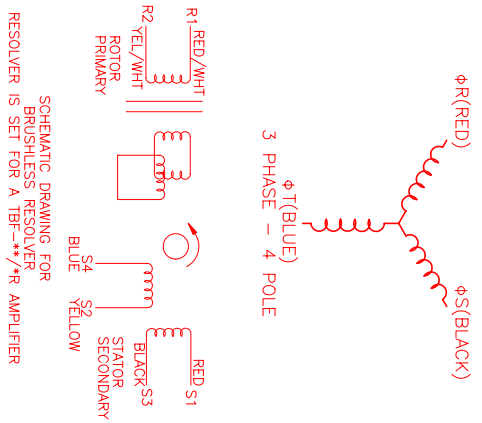
CONNECTION CHART

MOTOR/THERM CONNECTOR:
 © BEGA089NN00000007000
 (270-00256)

RESOLVER CONNECTOR:
 © AEGA052NN00000020000
 (270-00257)

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

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



REV	DESCRIPTION	DATE	APPD.
A	PRELIMINARY	6/16/99	EJS
B	E.C.O. - 547	11/3/99	MVS
C	E.C.O. - 572	5/25/00	AJS
C	E.C.O. - 620	4/9/01	AJS

NO.	PART NUMBER	DESCRIPTION	QTY.
1	UNLDSG7000	RESOLVER ASSEMBLY	1
2	RESOLV	RESOLVER	1
3	RESOLV	RESOLVER	1
4	RESOLV	RESOLVER	1
5	RESOLV	RESOLVER	1
6	RESOLV	RESOLVER	1
7	RESOLV	RESOLVER	1
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