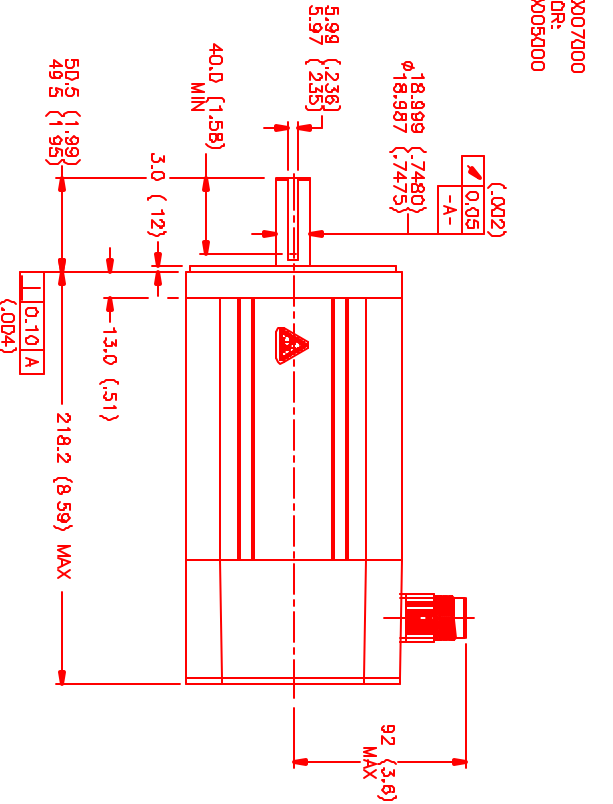
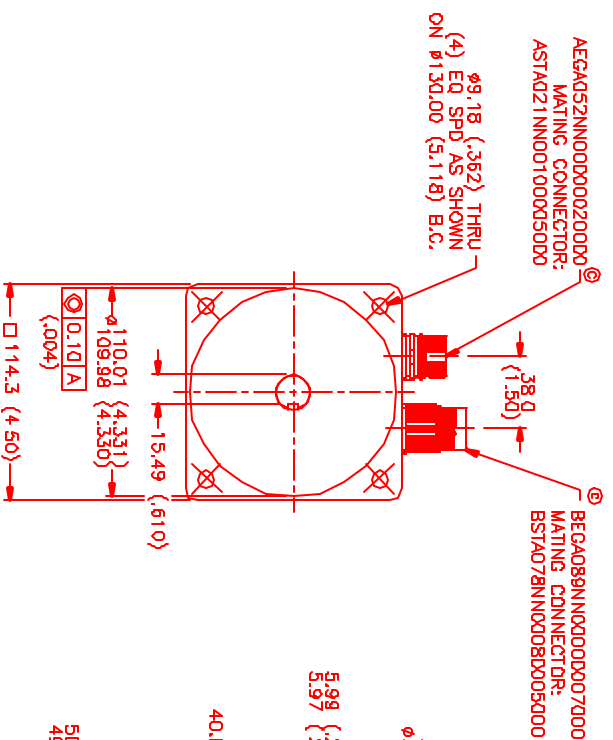


MOTOR DATA @ 230 VAC (SINE)

MOTOR PARAMETERS	UNITS	VALUE
MOTOR HORSEPOWER	HP RATED	2.1
KILOWATTS	KW	1.6
MAX. OPERATING SPEED	N MAX	4200
SPEED @ RATED TORQUE	N RATED	3000
* CONTINUOUS RATED TORQUE @ 3000 RPM	N-LBS(Nm)	45.0(5.1)
* CONTINUOUS STALL TORQUE	N-LBS(Nm)	54.0(6.1)
CONTINUOUS LINE CURRENT	AMPS(RMS/φ)	6.2
PEAK CURRENT	N-LBS(Nm)	189(121.3)
MAX. THEORETICAL ACCEL.	AMPS(RMS/φ)	21.6
TORQUE SENSITIVITY	RAU/SEC ²	54,029
BACK EMF (LINE TO LINE)	Kt N-LBS/MIN/φ(Nm/MP/RMS/φ)	8.77(0.98)
D.C. RESISTANCE (P-P)	Vrms/Krpm	55.0
INDUCTANCE (P-P)	OHMS	.82
ROTOR INERTIA	MILLIHERZES	6.1
STATIC FRICTION	lbf(N-LBS-SEC ² /Kg-M ²)	0.0035(0.00039)
	Tf	1.0(1.1)

*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 12" X 12" X 1/2" 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: 50 LBS MAX
 2. RADIAL LOAD: 100 LBS MAX @ 1" FROM FACE
 3. MOTOR SEALED TO IP68.
 4. MOTOR WEIGHT: 18 LBS. [8.2 Kg]
 5. MOTOR FINISH: BLACK EPOXY
 6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
 7. MILLIMETERS (INCHES)



CONNECTION CHART

MOTOR/THERM CONNECTOR:
@BEGA089NN0000007000
(270-00256)

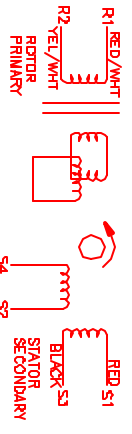
MOTOR/THERM	WIRE	WIRE	WIRE
PIN	FUNCTION	FUNCTION	COLOR
1	φR(U1)	RED	GRN/YEL
2	PE GND	GRN/YEL	BLUE
3	φT(W1)	BLUE	BLACK
4	φS(V1)	BLACK	-
A	-	-	-
B	-	-	-
C	THERM	BLACK	BLACK
D	THERM	BLACK	BLACK

RESOLVER CONNECTOR:

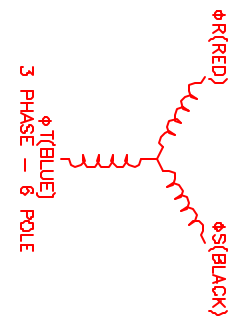
@AEGA052NN0000020000
(270-00257)

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

REV.	DESCRIPTION	DATE	APP.
A	PRELIMINARY	9/7/99	M/S
B	E.C.O. - 547	11/3/99	M/S
A	E.C.O. - 572	5/25/00	A/S
C	E.C.O. - B20	4/10/01	A/S



SCHEMATIC DRAWING FOR BRUSHLESS RESOLVER. RESOLVER IS SET FOR TBF/R AMP/LINER



NO.	PART NUMBER	DESCRIPTION	QTY.
1	M/S Systems Corporation Automation Division		
<p>UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS (INCHES). DIMENSIONS IN PARENTHESES ARE IN INCHES (MILLIMETERS). DIMENSIONS IN BRACKETS ARE TOLERANCES. DIMENSIONS IN SQUARE BRACKETS ARE HOLE LOCATIONS. DIMENSIONS IN CIRCLES ARE HOLE DIAMETERS. DIMENSIONS IN TRIANGLES ARE HOLE LOCATIONS. DIMENSIONS IN DIAMOND SHAPES ARE HOLE LOCATIONS. DIMENSIONS IN PARALLELOGRAMS ARE HOLE LOCATIONS. DIMENSIONS IN OVALS ARE HOLE LOCATIONS. DIMENSIONS IN RECTANGLES ARE HOLE LOCATIONS. DIMENSIONS IN TRAPEZOIDALS ARE HOLE LOCATIONS. DIMENSIONS IN CIRCLES WITH DIAMETER SYMBOL ARE HOLE DIAMETERS. DIMENSIONS IN SQUARES WITH DIAMETER SYMBOL ARE HOLE DIAMETERS. DIMENSIONS IN RECTANGLES WITH DIAMETER SYMBOL ARE HOLE DIAMETERS. DIMENSIONS IN TRAPEZOIDALS WITH DIAMETER SYMBOL ARE HOLE DIAMETERS. DIMENSIONS IN CIRCLES WITH DIAMETER SYMBOL AND RADIUS SYMBOL ARE HOLE DIAMETERS. DIMENSIONS IN SQUARES WITH DIAMETER SYMBOL AND RADIUS SYMBOL ARE HOLE DIAMETERS. DIMENSIONS IN RECTANGLES WITH DIAMETER SYMBOL AND RADIUS SYMBOL ARE HOLE DIAMETERS. DIMENSIONS IN TRAPEZOIDALS WITH DIAMETER SYMBOL AND RADIUS SYMBOL ARE HOLE DIAMETERS.</p>			
REV.	DATE	BY	CHK
001	9/7/99	M/S	C
<p>DATE: 9/7/99</p>			
<p>REVISED: 1/21</p>			