

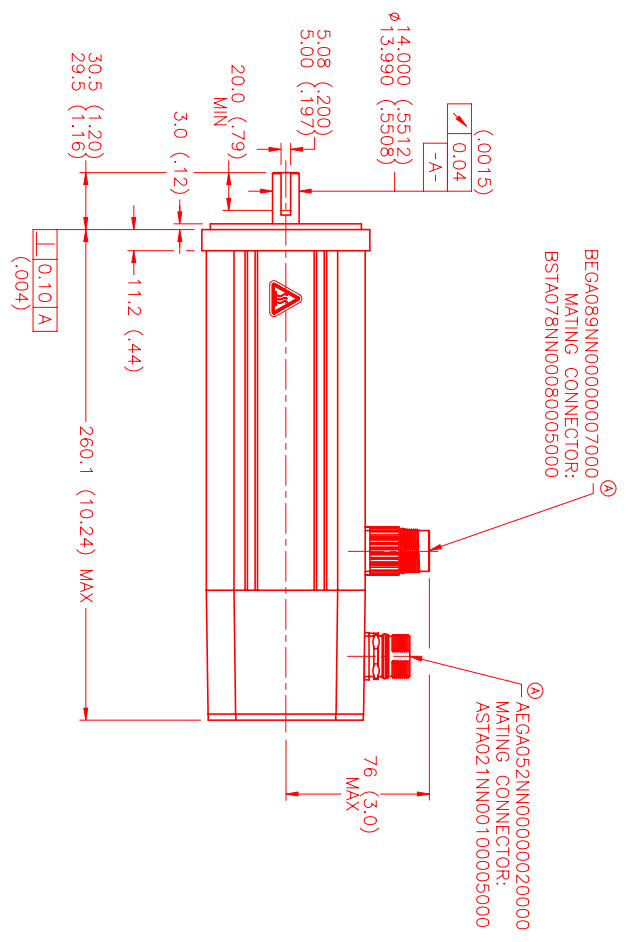
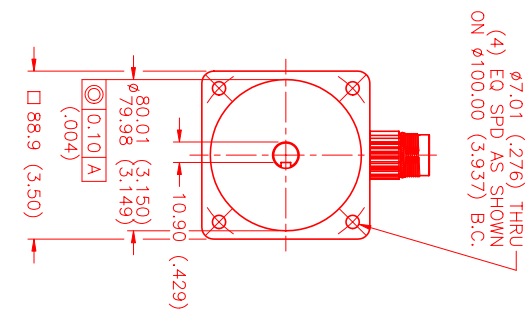
MOTOR DATA @ 230 VAC (SINE)

MOTOR PARAMETERS	UNITS	VALUE
MOTOR HORSEPOWER	HP RATED	1.96
	KW RATED	1.46
MAX. OPERATING SPEED	N MAX RPM	4100
SPEED @ RATED TORQUE	N RATED RPM	3600
* CONTINUOUS RATED TORQUE @ 3600 RPM	N-LBS[Nm]	34.4 [3.8]
* CONTINUOUS STALL TORQUE	N-LBS[Nm]	39.0 [4.4]
CONTINUOUS LINE CURRENT	AMP(S)(RMS/Φ)	4.5
PEAK TORQUE	N-LBS[Nm]	137.0 [15.5]
PEAK CURRENT	AMP(S)(RMS/Φ)	16.3
MAX. THEORETICAL ACCEL.	RAD/SEC ²	100,000
TORQUE SENSITIVITY	Kt N-LBS/AMP(RMS/Φ) [Nm/AMP(RMS/Φ)]	8.21/.931
BACK EMF (LINE TO LINE)	Vrms/Krpm	55.0
D.C. RESISTANCE (P-P)	OHMS	1.9
INDUCTANCE (P-P)	MILLIHENRIES	7.5
ROTOR INERTIA	Jm [N-LBS-SEC ²] [Kg-M ²]	.00137 [0.000154]
STATIC FRICTION	Tf [N-LBS] [Nm]	0.6 [0.07]

*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: 25 LBS MAX
2. RADIAL LOAD: 40 LBS MAX @ 1" FROM FACE
3. MOTOR SEALED TO IP65.
4. MOTOR WEIGHT: 12.6 LBS [5.7 Kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
7. MILLIMETERS (INCHES)



CONNECTION CHART

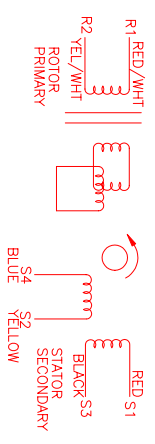
MOTOR/THERM CONNECTOR:
 ⓐ BEGA089NN00000007000
 (270-00256)

RESOLVER CONNECTOR:
 ⓑ AEGA052NN00000020000
 (270-00257)

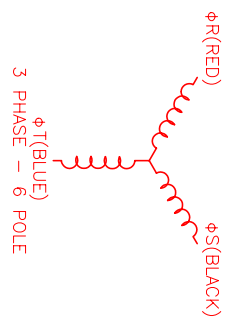
MOTOR/THERM	WIRE	WIRE LEADS
PIN	FUNCTION	WIRE COLOR
1	ΦR(U1)	RED
2	PE GND	GRN/YEL
3	Φ(W1)	BLUE
4	ΦS(V1)	BLACK
A	-	-
B	-	-
C	THERM	BLACK
D	THERM	BLACK

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

REV. A / SINE / 230V / MET / TBFR / INT		DRAWING NUMBER: MPM893ASG7H2N	
REV.	DESCRIPTION	DATE	APP'D.
PRELIMINARY		7/6/00	AJS
A	E.C.O. - 620	4/10/01	AJS



SCHEMATIC DRAWING FOR BRUSHLESS RESOLVER
 RESOLVER IS SET FOR A TBFR/R AMPLIFIER



NO.	PART NUMBER	DESCRIPTION	QTY.
1	AEGA052NN00000020000	RESOLVER	1
2	BEGA089NN00000007000	MOTOR	1

UNLESS SPECIFIED	DESCRIPTION	QTY.
DECIMAL: .001	MTS Automation Division	
FRACTIONAL: 1/32		
ANGLE: 1/2°		
SPAWN: AJS		
DATE: 6/30/00		
CHECKED:		
APPROVED:		