

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

MOTOR PARAMETERS	UNITS	VALUE
MOTOR HORSEPOWER	HP RATED	0.67
	KW RATED	0.47
MAX. OPERATING SPEED	N. MAX RPM	4000
SPEED @ RATED TORQUE	N RATED RPM	3000
* CONTINUOUS RATED TORQUE @ 3000 RPM	IN-LBS[Nm]	13.3[1.50]
* CONTINUOUS STALL TORQUE	IN-LBS[Nm]	15.0[1.69]
CONTINUOUS LINE CURRENT	AMPS[RMS/φ]	1.8
PEAK TORQUE	IN-LBS[Nm]	45.0[5.1]
PEAK CURRENT	AMPS[RMS/φ]	5.5
MAX. THEORETICAL ACCEL.	RAD/SEC <sup>2</sup>	118,421
TORQUE SENSITIVITY	Kt [N-LBS/AMPS/φ] [Nm/AMPS/φ]	8.17[0.923]
BACK EMF (LINE TO LINE)	±10% Vrms/Krpm	51.4
D.C. RESISTANCE (P-P)	±10% OHMS	7.8
INDUCTANCE (P-P)	MILLIHENRIES	18.0
ROTOR INERTIA	Jm [IN-LBS-SEC <sup>2</sup> ] [Kg-M <sup>2</sup> ]	.00038[0.000043]
STATIC FRICTION	Tf [IN-LBS] [Nm]	1.0[0.11]

\*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 85°C ON MOTOR. MOTOR MOUNTED ON A 1/2" X 1/2" X 1/2" ALUMINUM HEAT-SINK. 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: 20 LBS MAX
- RADIAL LOAD: 35 LBS MAX @ 1" FROM FACE
- MOTOR SEALED TO IP65.
- MOTOR WEIGHT: 5.1 LBS. [ 2.3 Kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)
- THIS MOTOR'S OUTPUT KEY IS A PRESS FIT.

**ENCODER: (290-00159)**

OIH35-3000P6-L6-5V

**CONNECTION CHART**

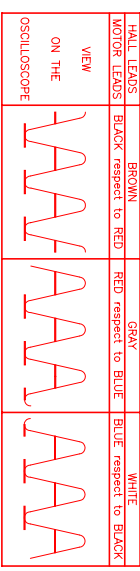
ENCODER CONNECTOR:  
 ⒶMEGA052NN000000200000  
 (270-00257)

PIN	WIRE FUNCTION	WIRE COLOR
1	GND(OV)	BLACK
2	CH A(A)	BLUE/BLK
3	CH A(A)	BLUE
4	CH B(B)	GREEN
5	CH B(B)	GRN/BLK
6	CH Z(Z)	YELLOW
7	CH Z(Z)	YEL/BLK
8	+5V(+5V)	RED
9	-	-
10	CH U(UG U)	BROWN
11	CH V(UG V)	GRAY
12	CH W(UG W)	WHITE

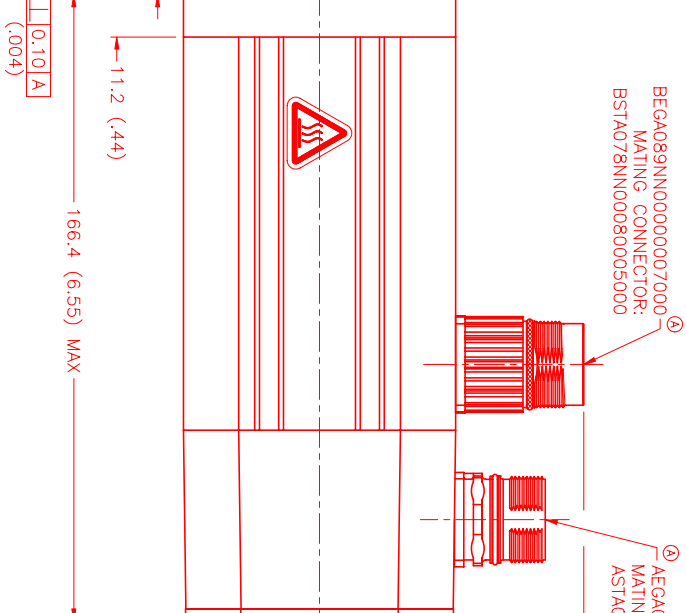
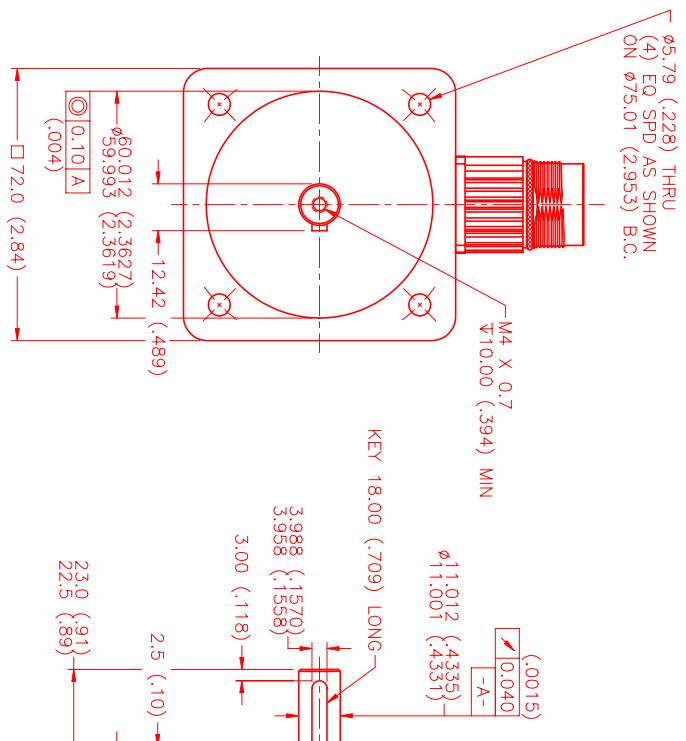
MOTOR/THERM CONNECTOR:  
 ⒶBEGA089NN00000007000  
 (270-00256)

PIN	WIRE FUNCTION	WIRE COLOR
1	φ(R(U1))	RED
2	PE GND	GRN/YEL
3	φ(S(W1))	BLACK
4	φ(T(V1))	BLUE
A	-	-
B	-	-
C	THERM	BLACK
D	THERM	BLACK

**MOTOR & HALL POSITION CHART**

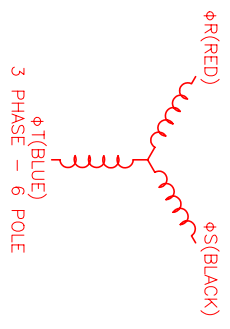


MOTOR ROTATION CCW (COUNTER CLOCKWISE)  
 (LOOKING AT THE FACE OF THE MOTOR)  
 WAVE REPRESENTING STATOR OUTPUT  
 WAVE REPRESENTING HALL SENSOR



ⒶBEGA089NN00000007000  
 MATING CONNECTOR:  
 BSTA078NN000800050000

ⒶMEGA052NN000000200000  
 MATING CONNECTOR:  
 ASTA021NN001000050000



NO.	PART NUMBER	DESCRIPTION	QTY.
1	M7230SG7JP2N	MOTOR	1

REV.	DESCRIPTION	DATE	APP.
A	PRELIMINARY	10/23/00	LIN
	E.C.O. - 620	4/10/01	AJS

NO. PART NUMBER	DESCRIPTION	QTY.
1	M7230SG7JP2N	1

UNLESS SPECIFIED	STANDARD
DECIMAL ANGLES	30°
DECIMAL ANGLES	1/2°
DECIMAL ANGLES	1/4°
DECIMAL ANGLES	1/8°
DECIMAL ANGLES	1/16°
DECIMAL ANGLES	1/32°
DECIMAL ANGLES	1/64°
DECIMAL ANGLES	1/128°
DECIMAL ANGLES	1/256°
DECIMAL ANGLES	1/512°
DECIMAL ANGLES	1/1024°
DECIMAL ANGLES	1/2048°
DECIMAL ANGLES	1/4096°
DECIMAL ANGLES	1/8192°
DECIMAL ANGLES	1/16384°
DECIMAL ANGLES	1/32768°
DECIMAL ANGLES	1/65536°
DECIMAL ANGLES	1/131072°
DECIMAL ANGLES	1/262144°
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