

### MOTOR DATA @ 110 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	0.74
KILOWATTS	KW RATED	0.55
MAX. OPERATING SPEED	N. MAX RPM	7000
SPEED @ RATED TORQUE	N RATED RPM	5000
* CONTINUOUS RATED TORQUE @ 5000 RPM	IN-LBS[Nm]	9.4[1.06]
* CONTINUOUS STALL TORQUE	IN-LBS[Nm]	11.3[1.28]
CONTINUOUS LINE CURRENT	AMPS	7.1
PEAK TORQUE	IN-LBS[Nm]	34.0[3.8]
PEAK CURRENT	AMPS	21.0
MAX. THEORETICAL ACCEL.	RAD/SEC <sup>2</sup>	130,000
TORQUE SENSITIVITY	Kt IN-LBS/AWP[Nm/AWP]	1.60[0.18]
BACK EMF (LINE TO LINE)	Vrms/Krpm	14.2
D.C. RESISTANCE (P-P)	OHMS	1.1
INDUCTANCE (P-P)	MILLIHENRIES	2.3
ROTOR INERTIA	Jm [IN-LBS-SEC <sup>2</sup> ] [Kg-M <sup>2</sup> ]	0.00027[0.000031]
STATIC FRICTION	Tf	0.8[0.09]

\*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 85°C ON MOTOR. MOTOR MOUNTED ON A 12" X 12" 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: 4.2 LBS. [ 1.9 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:  
@AEG4052NN000000200000  
(270-00257)

ENCODER WIRE LEADS	PIN	WIRE FUNCTION	WIRE COLOR
1	GN(D/0V)	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(RG U)	BROWN	
11	CH V(RG V)	GRAY	
12	CH W(RG W)	WHITE	

#### MOTOR/THERM CONNECTOR:

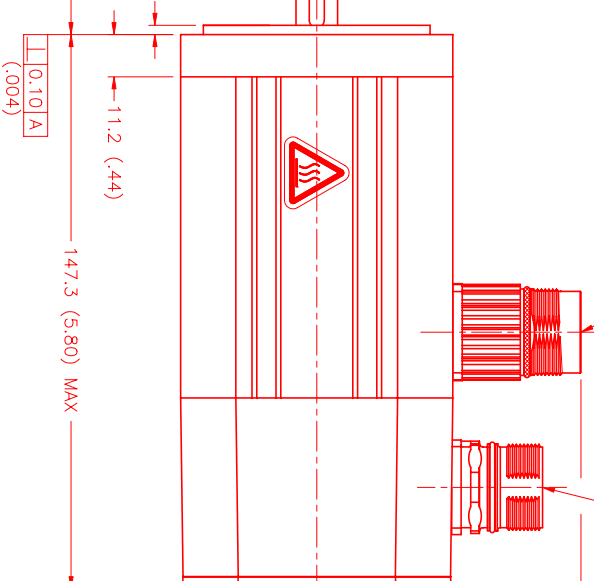
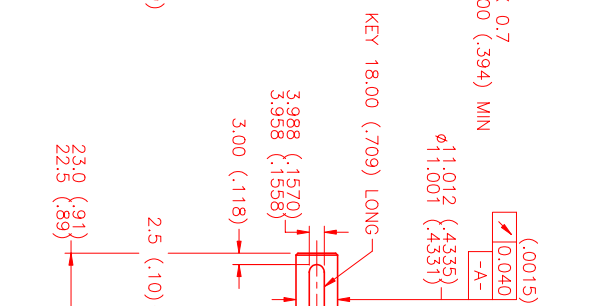
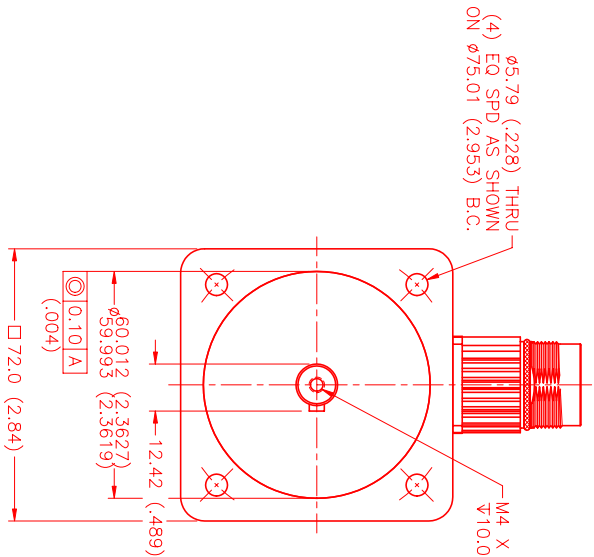
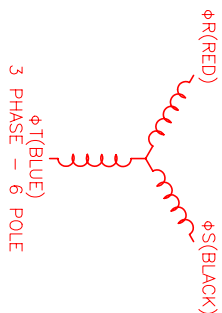
@BEGA089NN000000007000  
(270-00256)

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

#### MOTOR & HALL POSITION CHART (GERMAN - TBF\V)

HALL LEADS	WHITE	BROWN	GRAY
MOTOR LEADS	BLACK respect to RED	RED respect to BLUE	BLUE respect to BLACK

ON THE OSCILLOSCOPE



BEGA089NN000000007000  
MATING CONNECTOR:  
BSTA078NN000000050000

AEGA052NN000000007000  
MATING CONNECTOR:  
ASTA021NN001000050000

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

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