

MOTOR DATA @ 230 VAC (SINE)

MOTOR PARAMETERS	UNITS	VALUE
MOTOR HORSEPOWER	HP RATED	0.7
	KW RATED	0.6
MAX. OPERATING SPEED	N. MAX RPM	7000
SPEED @ RATED TORQUE	N RATED RPM	5000
* CONTINUOUS RATED TORQUE @ 5000 RPM	N-LSBI [Nm]	9.41 [1.06]
* CONTINUOUS STALL TORQUE	N-LSBI [Nm]	11.31 [1.28]
CONTINUOUS LINE CURRENT	AMPS (RMS/Φ)	3.0
PEAK TORQUE	TPK	34.0 [3.8]
PEAK CURRENT	AMP(S)/RMS/Φ	15.0
MAX. THEORETICAL ACCEL.	RAD/SEC ²	125.926
TORQUE SENSITIVITY	Kt [N-LBS/AMP/RMS/Φ] [Nm/AMP/RMS/Φ]	2.26 [0.255]
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 [N-LBS-SEC ²] [Kg-M ²]	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 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:

- 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: (290-00157)
OH35-2000P6-L6-5V

CONNECTION CHART

ENCODER CONNECTOR:
@AEGA052NN000000200000
(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)

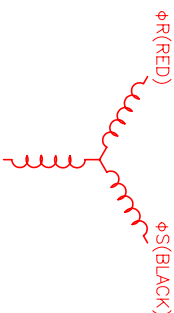
PIN	WIRE FUNCTION	WIRE COLOR
1	ΦR(U1)	RED
2	PE GND	GRN/YEL
3	ΦS(W1)	BLACK
4	ΦT(V1)	BLUE
A	-	-
B	-	-
C	THERM	BLACK
D	THERM	BLACK

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

ON THE OSCILLOSCOPE

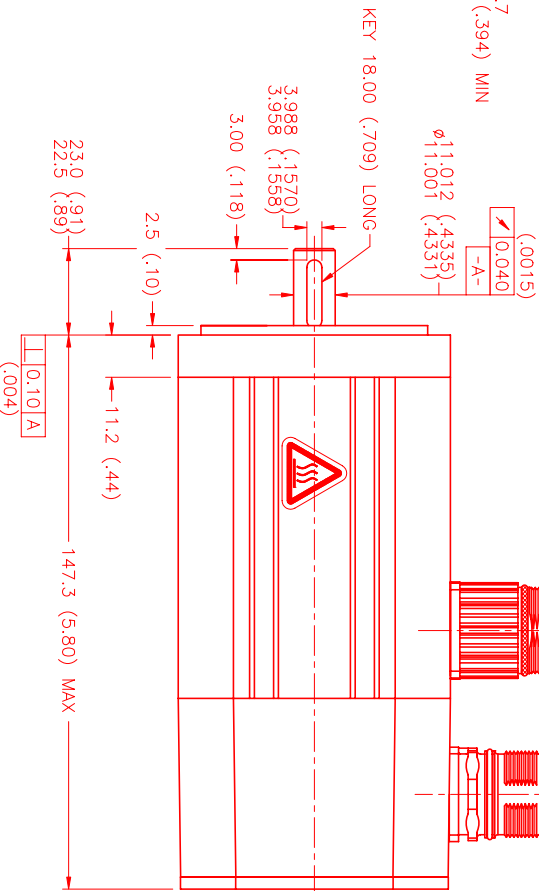
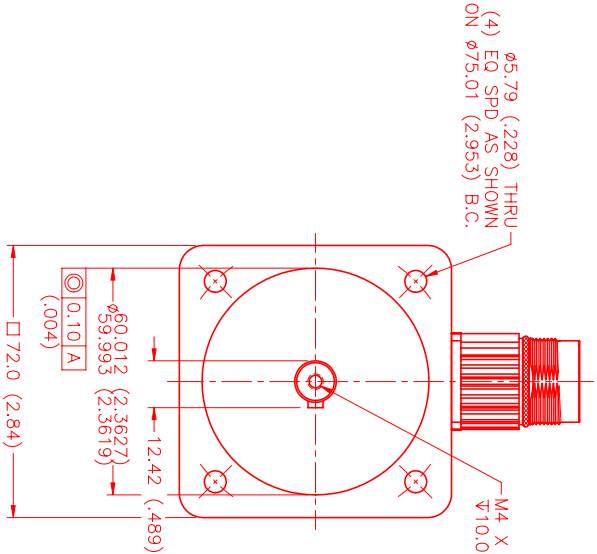
MOTOR & HALL POSITION CHART

3 PHASE - 6 POLE



*MOTOR ROTATION CCW (COUNTER CLOCKWISE)
(LOOKING AT THE FACE OF THE MOTOR)

WAVE REPRESENTING STATOR OUTPUT
WAVE REPRESENTING HALL SENSOR



BEGA089NN00000007000
MATING CONNECTOR:
BSTA078NN0000005000

AEGA052NN00000020000
MATING CONNECTOR:
ASTA021NN00100005000

NO.	PART NUMBER	DESCRIPTION	QTY.
1	MOTOR	MOTOR	1

REV.	DESCRIPTION	DATE	APP.
A	PRELIMINARY	7/1/99	MVS
B	E.C.O. - 558	2/2/00	AJS
C	E.C.O. - 572	5/25/00	AJS
	E.C.O. - 620	4/10/01	AJS

NO.	PART NUMBER	DESCRIPTION	QTY.
1	MOTOR	MOTOR	1

UNLESS SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE AS SHOWN
UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED

DATE: 7/1/99
DRAWN: MVS
CHECKED: MVS
APPROVED: MVS

SCALE: 1:1