

MOTOR DATA @ 110 VAC (TRAP)

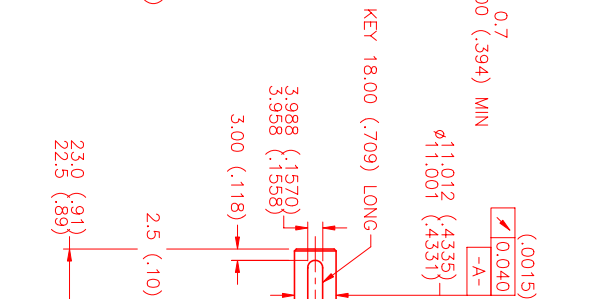
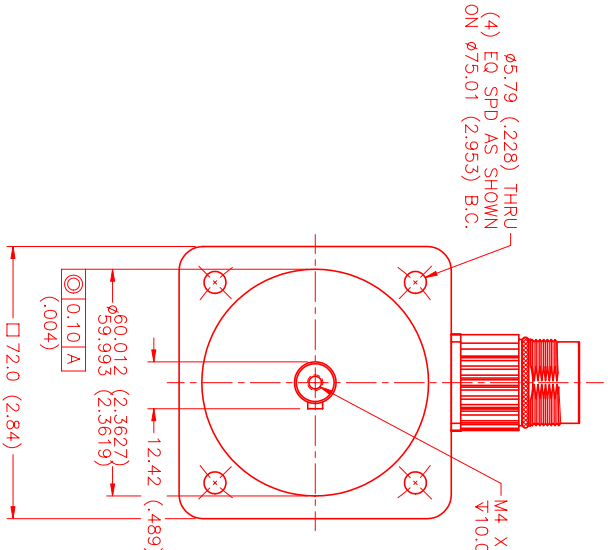
MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	1.3
KILOWATTS	KW RATED	0.93
MAX. OPERATING SPEED	N. MAX RPM	6000
SPEED @ RATED TORQUE	N RATED RPM	5000
* CONTINUOUS RATED TORQUE @ 4500 RPM	IN-LBS[Nm]	15.8[1.81]
* CONTINUOUS STALL TORQUE	IN-LBS[Nm]	18.8[2.12]
CONTINUOUS LINE CURRENT	AMPS	13.0
PEAK TORQUE	IN-LBS[Nm]	56.0[6.4]
PEAK CURRENT	AMPS	38.0
MAX. THEORETICAL ACCEL.	RAD/SEC ²	110,000
TORQUE SENSITIVITY	Kt IN-LBS/AWP[Nm/AWP]	1.49[0.168]
BACK EMF (LINE TO LINE)	Vrms/Krpm	13.2
D.C. RESISTANCE (P-P)	OHMS	0.39
INDUCANCE (P-P)	MILLIHENRIES	0.9
ROTOR INERTIA	Jm[IN-LBS-SEC ²] [Kg-M ²]	0.00049[0.000055]
STATIC FRICTION	Tf	1.2[0.14]

*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 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: 6 LBS. [2.7 Kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)
- THIS MOTOR'S OUTPUT KEY IS A PRESS FIT.

ENCODER: (290-00155)
OH35-1000P6-L6-5V

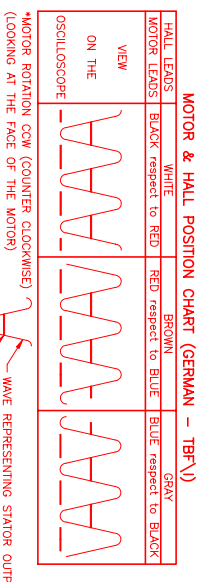


CONNECTION CHART
ENCODER CONNECTOR:
@AEGA052NN00000020000
(270-00257)

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 V(RG U)	BROWN
11	CH V(RG V)	GRAY
12	CH W(RG W)	WHITE

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

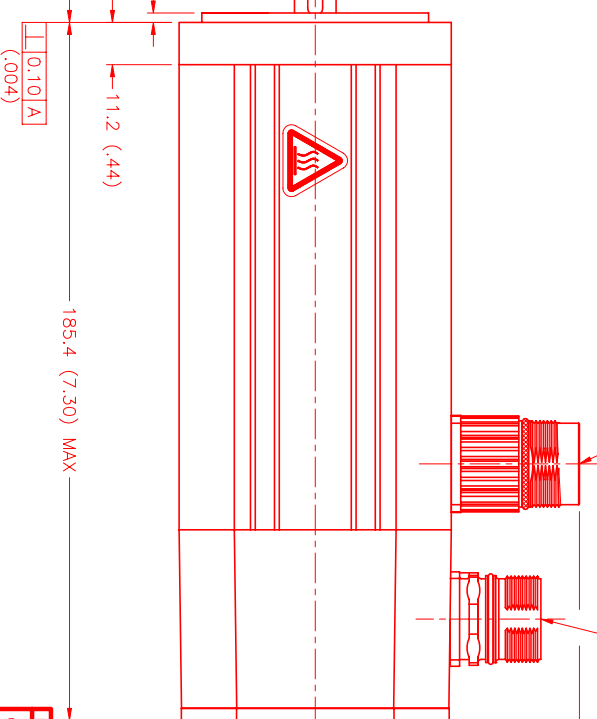
PIN	WIRE FUNCTION	WIRE COLOR
1	ΦR(U)	RED
2	PE GND	GRN/YEL
3	ΦS(W1)	BLACK
4	ΦT(V1)	BLUE
A	-	-
B	-	-
C	THERM	BLACK
D	THERM	BLACK



MOTOR & HALL POSITION CHART (GERMAN - TBF\V)
3 PHASE - 6 POLE
ΦR(RED)
ΦS(BLACK)
ΦT(BLUE)

BEGA089NN0000007000
MATING CONNECTOR:
BSTA078NN0000005000

BEGA052NN00000020000
MATING CONNECTOR:
ASTA021NN00100005000



REV.	DESCRIPTION	DATE	APP.
A	PRELIMINARY	9/27/99	MS
B	E.C.O. - 558	2/2/00	AJS
C	E.C.O. - 572	5/25/00	AJS
C	E.C.O. - 620	4/10/01	AJS

NO.	PART NUMBER	DESCRIPTION	QTY.
1	MTS	MTS Systems Corporation Automation Division	

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