

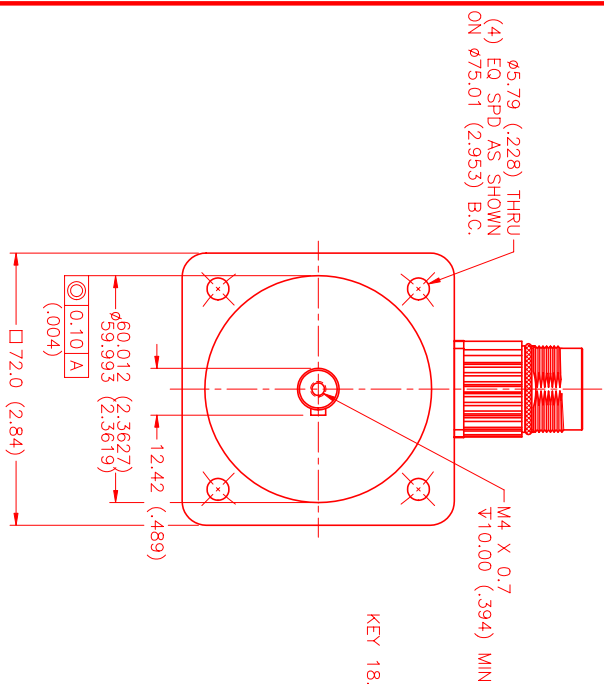
### MOTOR DATA @ 110 VAC (SINE)

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	N-LBS[Nm]	15.81 [1.81]
* CONTINUOUS STALL TORQUE	N-LBS[Nm]	18.81 [2.12]
CONTINUOUS LINE CURRENT	AMPS[RMS/φ]	8.9
PEAK TORQUE	N-LBS[Nm]	56.0 [6.4]
PEAK CURRENT	AMPS[RMS/φ]	26.8
MAX. THEORETICAL ACCEL.	RAD/SEC <sup>2</sup>	110,000
TORQUE SENSITIVITY	Kt [N-LBS/AMP/RMS/φ]/[Nm/AMP/RMS/φ]	2.10 [0.237]
BACK EMF (LINE TO LINE)	Vrms/Krpm	13.2
D.C. RESISTANCE (P-P)	OHMS	0.39
INDUCTANCE (P-P)	MILLIHENRIES	0.9
ROTOR INERTIA	Jm [N-LBS-SEC <sup>2</sup> ]/Kg-M <sup>2</sup>	0.00049 [0.000055]
STATIC FRICTION	Tf [N-LBS]/Nm	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: 6.2 LBS. [ 2.8 kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)
- THIS MOTOR'S OUTPUT KEY IS A PRESS FIT.



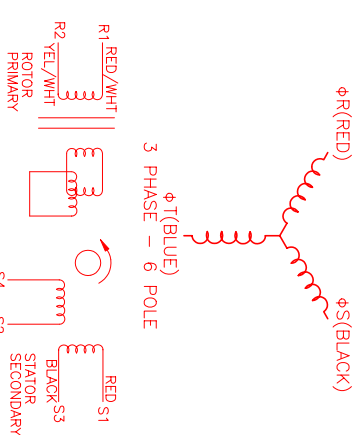
#### CONNECTION CHART

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

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

RESOLVER CONNECTOR:  
 @AEGA052NN0000000200000  
 (270-00257)

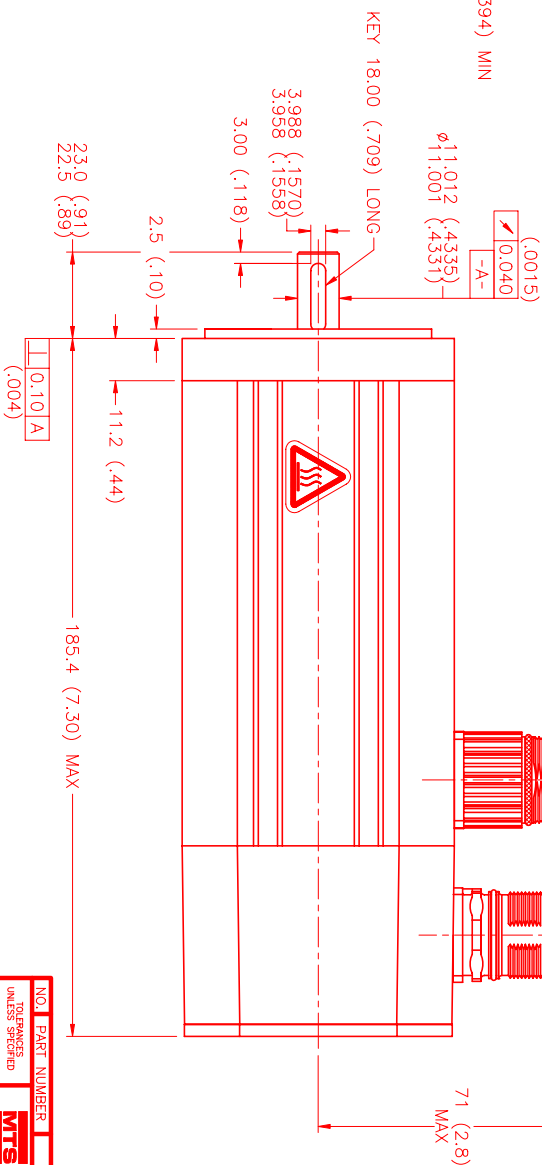
RESOLVER WIRE LEADS	PIN	WIRE FUNCTION	WIRE COLOR
1	REF(R1)	RED/WHT	
2	REF(R2)	RED/WHT	
3	REF GND(R2)	YEL/WHT	
4	COS GND(S1)	BLACK	
5	COS(S2)	RED	
6	SIN(S2)	YELLOW	
7	SIN GND(S4)	BLUE	
8	-	-	
9	-	-	
10	-	-	
11	-	-	
12	-	-	



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

BEGA089NN00000007000  
 MATING CONNECTOR:  
 BSTJA078NN00000005000

AEGA052NN0000000200000  
 MATING CONNECTOR:  
 ASTJA021NN001000005000



NO.	PART NUMBER	DESCRIPTION	QTY.
1	MPM724ASF7H2N	MPS Systems Corporation Automation Division	

REV.	DESCRIPTION	DATE	APP.
A	PRELIMINARY	1/29/99	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

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