

MOTOR DATA @ 230 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	.82
KILOWATTS	KW	.62
MAX. OPERATING SPEED	N MAX RPM	5000
SPEED @ RATED TORQUE	N RATED RPM	4000
* CONTINUOUS RATED TORQUE @ 4000 RPM	IN-LBS[Nm]	13.0 [1.47]
* CONTINUOUS STALL TORQUE	IN-LBS[Nm]	16.0 [1.81]
CONTINUOUS LINE CURRENT	AMPS	3.8
PEAK TORQUE	IN-LBS[Nm]	58.8 [6.64]
PEAK CURRENT	AMPS	14.0
MAX. THEORETICAL ACCEL.	RAD/SEC ²	95.610
TORQUE SENSITIVITY	Kt [N-LBS/AMP][Nm/AMP]	4.2 [.481]
BACK EMF (LINE TO LINE)	Vrms/krpm	37.6
D.C. RESISTANCE (P-P)	OHMS	3.9
INDUCTANCE (P-P)	MILLIHENRIES	10.4
ROTOR INERTIA	Jm [N-LBS-SEC ²][Kg-M ²]	.000615 [0.000693]
STATIC FRICTION	Tf [N-LBS][Nm]	.4 [0.05]

*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 10" X 10" X 1/4" 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: 25 LBS MAX
- RADIAL LOAD: 40 LBS MAX @ 1" FROM FACE
- MOTOR SEALED TO IP65.
- MOTOR WEIGHT: 9.0 LBS. [4.1 kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)

FAILSAFE BRAKE:

HOLDING TORQUE: 90 FT-LBS
INPUT VOLTAGE: 24 VOLTS

ENCODER: (290-00064)
OIH48-1000P6-L6-5V

CONNECTION CHART

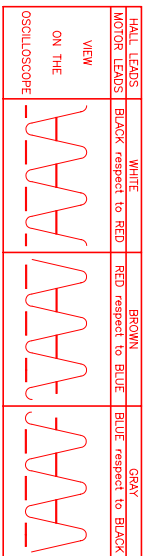
MOTOR/BRK/THERM CONNECTOR:
(270-00256)
② BEGA089NN00000007000

ENCODER CONNECTOR:
(270-00257)
③ AEGA052NN00000020000

PIN	WIRE FUNCTION	WIRE COLOR	LEADS
1	ΦR(U1)	RED	
2	PE GND	GRN/YEL	
3	ΦS(W1)	BLACK	
4	ΦT(V1)	BLUE	
A	BRK (+)	DIODE	
B	BRK (-)	1N4007	
C	THERM	BLACK	
D	THERM	BLACK	

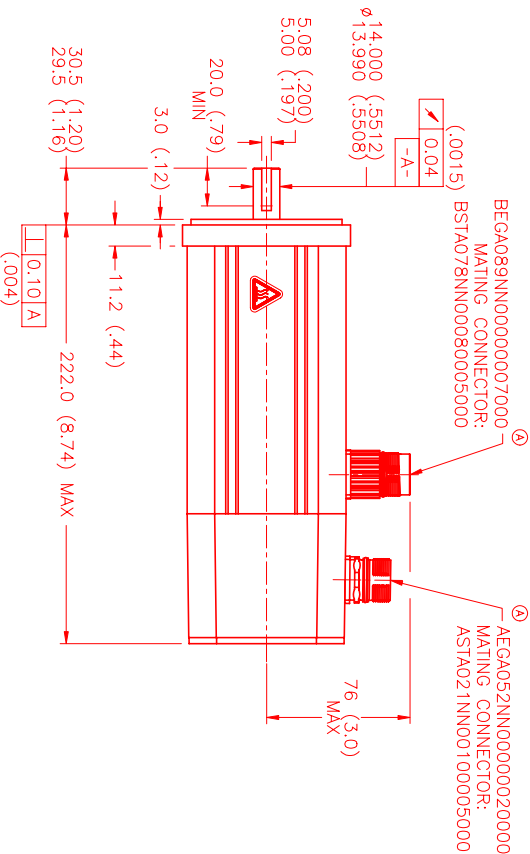
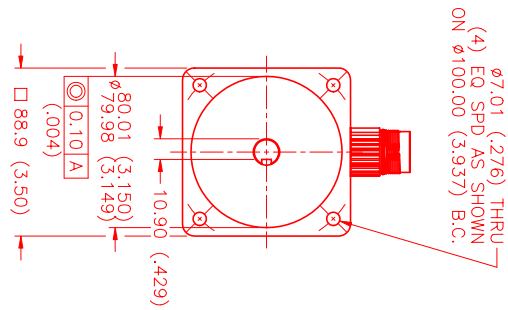
PIN	WIRE FUNCTION	WIRE COLOR	LEADS
1	GND(OV)	BLACK	
2	CH A(A)	BLUE/BLK	
3	CH A(A)	BLUE	
4	CH B(B)	GREEN	
5	CH B(B)	GRN/BLK	
6	CH Z(Z)	YELLOW	
7	CH Z(Z)	YEL/BLK	
8	+5V(+5V)	RED	
9	-	-	
10	CH U(ULG U)	BROWN	
11	CH V(VLG V)	GRAY	
12	CH W(WLG W)	WHITE	

MOTOR & HALL POSITION CHART (GERMAN - TRFLV)



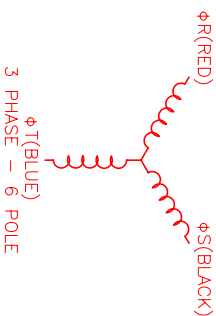
MOTOR ROTATION CCM (COUNTER CLOCKWISE)
(LOOKING AT THE FACE OF THE MOTOR)

WAVE REPRESENTING STATOR OUTPUT
WAVE REPRESENTING HALL SENSOR



BEGA089NN00000007000
MATING CONNECTOR:
ASTA078NN00000005000

AEGA052NN00000020000
MATING CONNECTOR:
ASTA021NN00100005000



NO.	PART NUMBER	DESCRIPTION	QTY
1	MTS	MTS Systems Corporation Automation Division	
2	DATE: 2/23/01	TITLE: "A"/TRAP/230/MET/TRFLV/INT/BRK	REV: A
3	APPROVED:	DRAWING NUMBER: MPM891ATG7WM2R	SCALE: 1/2=1