

MOTOR DATA @ 230 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	1.10
KILOWATTS	KW RATED	0.85
MAX. OPERATING SPEED	N. MAX RPM	2000
SPEED @ RATED TORQUE	N RATED RPM	1500
* CONTINUOUS RATED TORQUE @ 1500 RPM	IN-LBS[Nm]	36.0[4.0]
* CONTINUOUS STALL TORQUE	IN-LBS[Nm]	39.0[4.4]
CONTINUOUS LINE CURRENT	AMPS	3.0
PEAK TORQUE	IN-LBS[Nm]	137.0[15.5]
PEAK CURRENT	AMPS	11.1
MAX. THEORETICAL ACCEL.	RAD/SEC ²	-
TORQUE SENSITIVITY	Kt IN-LBS/AMPI Nm/AMP	12.4[1.4]
BACK EMF (LINE TO LINE)	Vrms/Krpm	110.0
D.C. RESISTANCE (P-P)	OHMS	7.7
INDUCTANCE (P-P)	MILLIHENRIES	29.1
ROTOR INERTIA W/ BRAKE	Jm IN-LBS-SEC ² [Kg-M ²]	0.0152[0.00171]
STATIC FRICTION	Tf IN-LBS[Nm]	0.6[0.07]

*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 10" X 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: 15.4 LBS. [7.0 Kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- INCHES (MILLIMETERS)

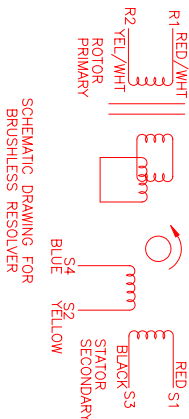
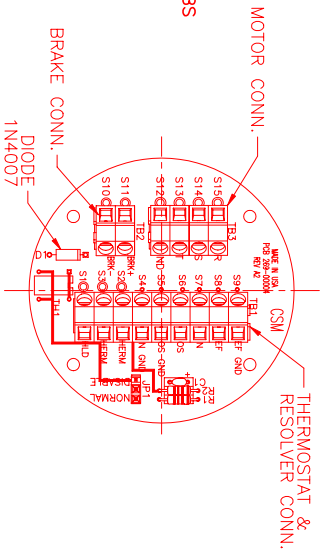
FAILSAFE BRAKE:

MIN HOLDING TORQUE: 60 IN-LBS
INPUT VOLTAGE: 24 VOLTS

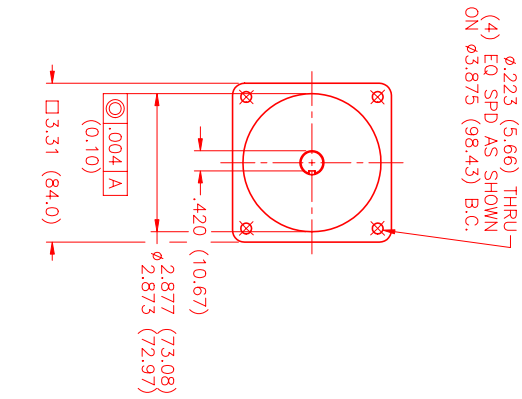
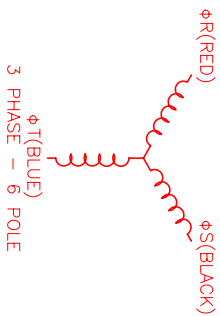
CONNECTION CHART

MOTOR/BRAKE WIRE LEADS	WIRE FUNCTION	WIRE COLOR
S15	ΦR	RED
S14	ΦS	BLACK
S13	ΦT	BLUE
S12	PE GND	GRN/YEL
S11	BRK (+)	1N4007
S10	BRK (-)	□ DIODE

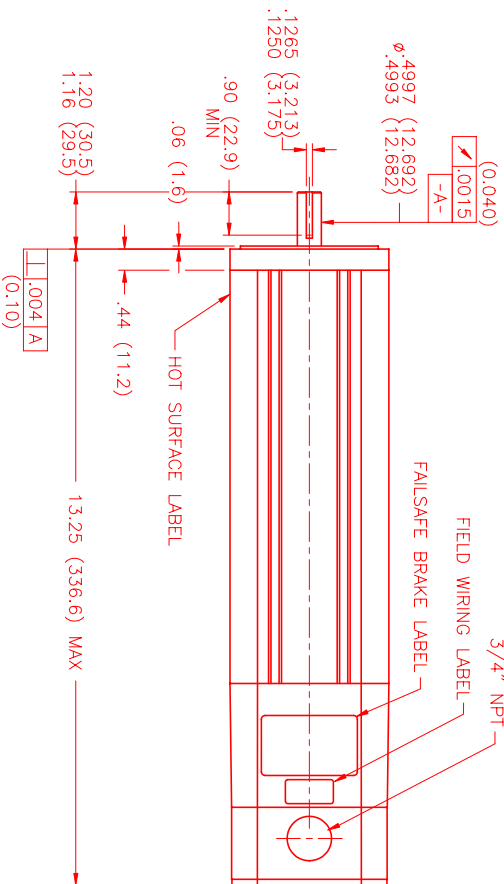
RES/THERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR
S9	REF GND	YEL/WHI
S8	REF	RED/WHI
S7	SIN	YELLOW
S6	COS	RED
S5	COS GND	BLACK
S4	SIN GND	BLUE
S3	THERM	BLACK
S2	THERM	BLACK
S1	RES SHLD	GRN/YEL



SCHEMATIC DRAWING FOR BRUSHLESS RESOLVER



Φ.223 (5.66) THRU (4) EQ SPD AS SHOWN ON Φ3.875 (98.43) B.C.



FIELD WIRING LABEL
FAILSAFE BRAKE LABEL
3/4" NPT
HOT SURFACE LABEL

REV.	DESCRIPTION	DATE	APPD.
PRELIMINARY		7/23/99	MVS

REVISIONS

REV.	DESCRIPTION	DATE	APPD.
PRELIMINARY		7/23/99	MVS

NO.	PART NUMBER	DESCRIPTION	QTY.
UNLESS SPECIFIED			
DESIGN	MTS	MVS	
DATE	7/23/99		
CHECKED			
APPROVED			

MTS
Automation Division

SCALE: 1/2:1