

MOTOR DATA @ 230 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP RATED	0.82
KILOWATTS	KW RATED	0.62
MAX. OPERATING SPEED	N MAX RPM	5000
SPEED @ RATED TORQUE	N RATED RPM	4000
* CONTINUOUS RATED TORQUE	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	76,863
TORQUE SENSITIVITY	Kt [IN-LBS/AMP] [Nm/AMP]	4.2 [0.48]
BACK EMF (LINE TO LINE)	Vrms/Krpm	37.6
D.C. RESISTANCE (P-P)	OHMS	3.8
INDUCTANCE (P-P)	MILLIHENRIES	10.4
ROTOR INERTIA W/BRAKE	Jm [IN-LBS-SEC ²] [Kg-M ²]	.000765 [0.0000861]
STATIC FRICTION	Tf [IN-LBS] [Nm]	0.4 [0.05]

*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:

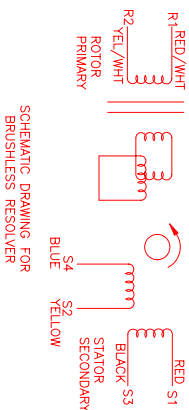
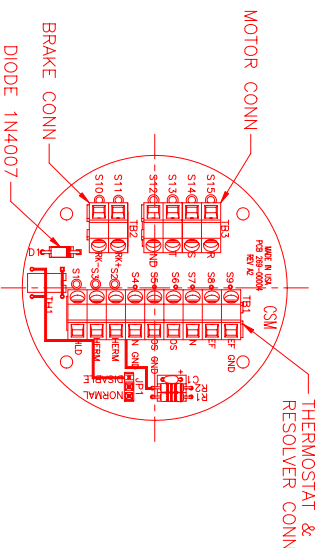
- AXIAL LOAD: 25 LBS MAX
- RADIAL LOAD: 40 LBS MAX @ 1" FROM FACE
- MOTOR SEALED TO IP65.
- MOTOR WEIGHT: 10.3 LBS. [4.7 kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)

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

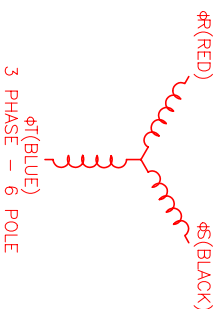
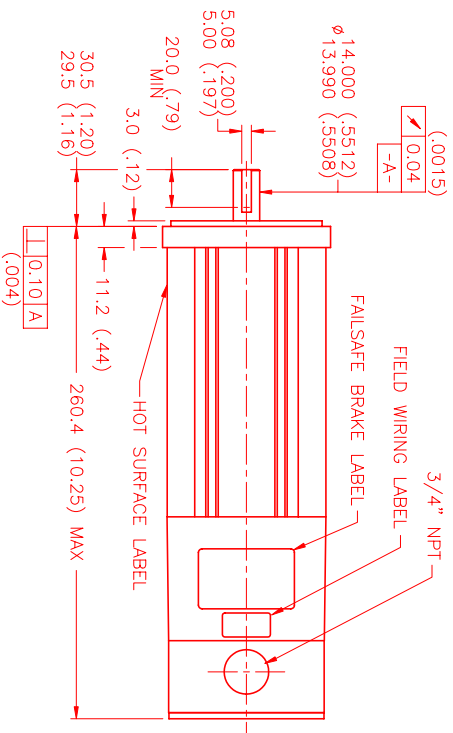
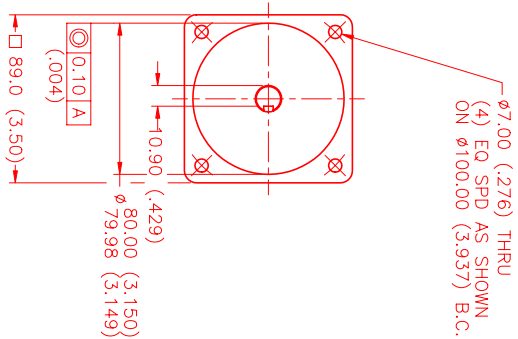
CONNECTION CHART

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

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



SCHEMATIC DRAWING FOR BRUSHLESS RESOLVER



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