

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 [N-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[.0000861]
STATIC FRICTION	Tf [IN-LBS] [Nm]	0.4[0.05]

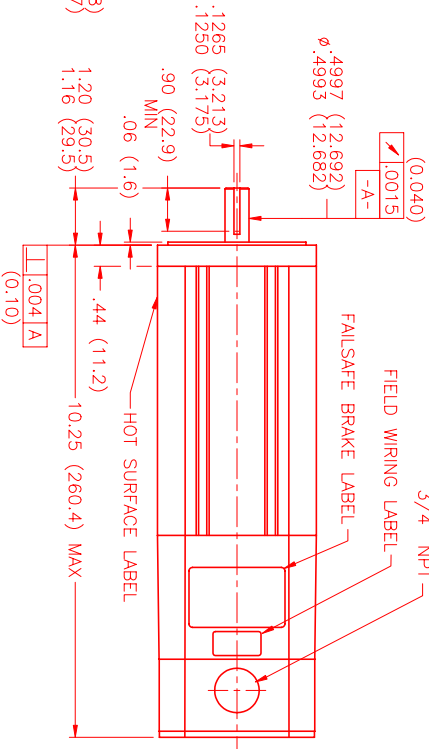
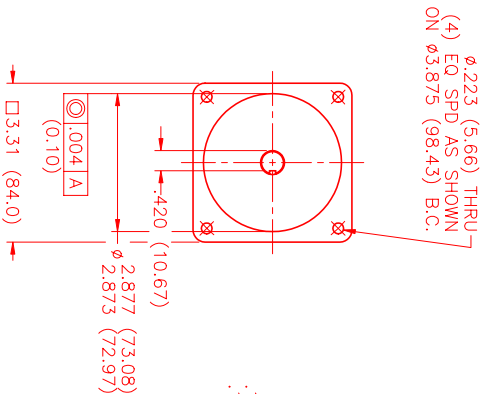
*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 10" X 10" X 10" X 1/4" ALUMINUM HEATSINK. THERMOSTAT IN STATOR WINDINGS WILL OPEN IF WINDING TEMPERATURE EXCEEDS 155°C. THIS ALLOWS FOR AN APPROXIMATE +10% HEADROOM IN THE CONTINUOUS TORQUE RATING BEFORE THERMOSTAT OPENS.

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
- INCHES (MILLIMETERS)

FAILSAFE BRAKE:

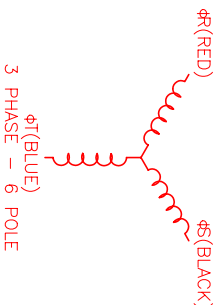
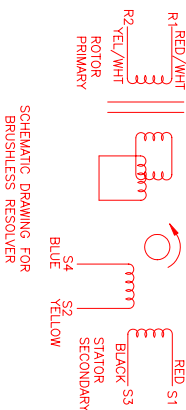
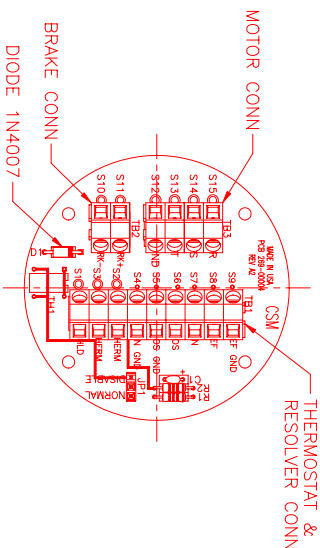
MIN HOLDING TORQUE: 60 IN-LBS
INPUT VOLTAGE: 24 VOLTS



CONNECTION CHART

MOTOR/BRAKE WIRE LEADS	WIRE FUNCTION	WIRE COLOR
S10	BRK (-)	BLUE
S11	BRK (+)	BLUE
S12	PE GND	GRN/YEL
S13	ΦS	BLACK
S14	ΦR	RED
S15	ΦT	BLUE
S16	REF GND	YEL/WHIT
S17	SIN	YELLOW
S18	REF	RED/WHIT
S19	REF GND	YEL/WHIT
S20	RES/RES	RES/RES

RES/THERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR
S1	GND/SHLD	GRN/YEL
S2	THERM	BLACK
S3	THERM	BLACK
S4	SIN GND	BLUE
S5	COS GND	BLACK
S6	COS	RED
S7	SIN	YELLOW
S8	REF	RED/WHIT
S9	REF GND	YEL/WHIT
S10	RES/RES	RES/RES



REV.	DESCRIPTION	DATE	APPD.
PRELIMINARY		7/22/99	MVS

REVISIONS

NO.	PART NUMBER	DESCRIPTION	QTY.
1	MPM891ATG6G3R		

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1	MPM891ATG6G3R		

MTS Systems Corporation
Automation Division

DATE	REV.
7/22/99	1/2-1