MOTOR DATA @ 460 VAC (TRAP)

MOTOR PARAMETERS		UNITS	VALUE
HORSEPOWER	HP RATED	Hp	10.4
KILOWATTS	KW RATED	KW	7.8
MAX. OPERATING SPEED	N MAX	RPM	1500
SPEED @ RATED TORQUE	N RATED	RPM	1200
* CONTINUOUS RATED TORQUE @ 1200 RPM		IN-LBS[Nm]	550.0[61.8]
* CONTINUOUS STALL TORQUE		IN-LBS[Nm]	640.0[71.9]
CONTINUOUS LINE CURRENT		AMPS	18.0
PEAK TORQUE	Tpk	IN-LBS[Nm]	1920.0[215.0]
PEAK CURRENT		AMPS	108.0
MAX. THEORETICAL ACCEL.		RAD/SEC²	26,891
TORQUE SENSITIVITY	Kt	IN-LBS/AMP[Nm/AMP]	35.0[4.0]
BACK EMF (LINE TO LINE)	±10%	Vrms/Krpm	316.0
D.C. RESISTANCE (P-P)	±10%	OHMS	2.0
INDUCTANCE (P-P)	±10%	MILLIHENRIES	29.3
ROTOR INERTIA	Jm	IN-LBS-SEC²[Kg-M²]	.0714[.00807]
STATIC FRICTION	Tf	IN-LBS[Nm]	9.8[1.1]

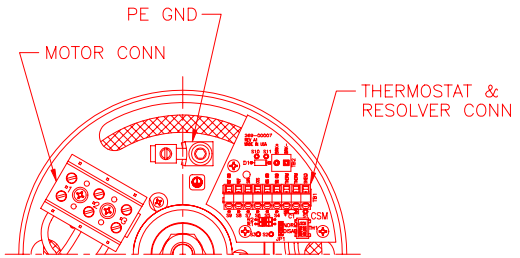
*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 14" X 14" X 3/4" ALUMINUM HEATSINK. THERMOSTAT IN STATOR WINDINGS WILL OPEN IF WINDING TEMPERATURE EXCEEDS 155°C. THIS ALLOWS FOR AN APPROXIMATE +10% HEADROOM IN THE CONTINUOUS TORQUE RATING BEFORE THERMOSTAT OPENS.

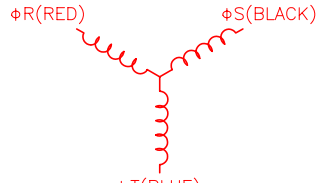
MECHANICAL NOTES:
1. AXIAL LOAD: 100 LBS MAX
2. RADIAL LOAD: 250 LBS MAX @ 1" FROM FACE
3. MOTOR SEALED TO IP65.
4. MOTOR WEIGHT: 99 LBS. [45.0 Kg]
5. MOTOR FINISH: BLACK EPOXY
6. MILLIMETERS (INCHES)

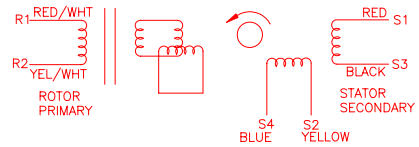
CONNECTION CHART

MOTOR WIRE LEADS		
TERMINAL	WIRE FUNCTION	WIRE COLOR
1	ΦR	RED
2	ΦS	BLACK
3	ΦT	BLUE
–	PE GND	–

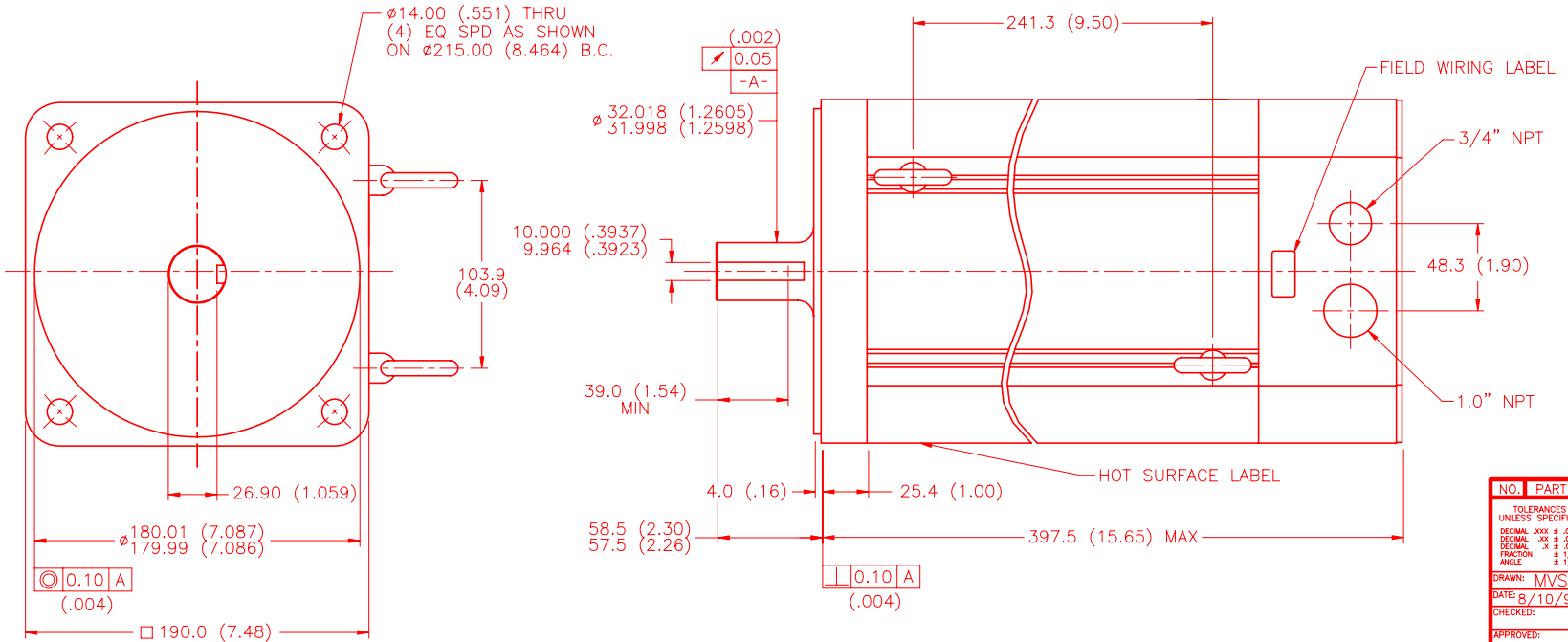
RES/THERM WIRE LEADS		
TERMINAL	WIRE FUNCTION	WIRE COLOR
S9	REF GND	YEL/WHT
S8	REF	RED/WHT
S7	SIN	YELLOW
S6	COS	RED
S5	COS GND	BLACK
S4	SIN GND	BLUE
S3	THERM	BLACK
S2	THERM	BLACK
S1	RES SHLD	GRN/YEL







SCHEMATIC DRAWING FOR BRUSHLESS RESOLVER



TITLE:	"D"/TRAP/460/MET/RES/NPT	DRAWING NUMBER:	MPM1902DTJ7G3N

REVISIONS

REV.	DESCRIPTION	DATE	APPD.
	PRELIMINARY	8/10/99	MVS

NO.	PART NUMBER	DESCRIPTION	QTY.

TOLERANCES UNLESS SPECIFIED
DECIMAL .XXX ± .005
DECIMAL .XX ± .010
DECIMAL .X ± .020
FRACTION ± 1/64
ANGLE ± 1/2°

MTS Systems Corporation
Automation Division

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DRAWN: MVS	TITLE: "D"/TRAP/460/MET/RES/NPT	REV.
DATE: 8/10/99		
CHECKED:	MATERIAL:	
APPROVED:	DRAWING NUMBER: MPM1902DTJ7G3N	SCALE: 1/2:1