

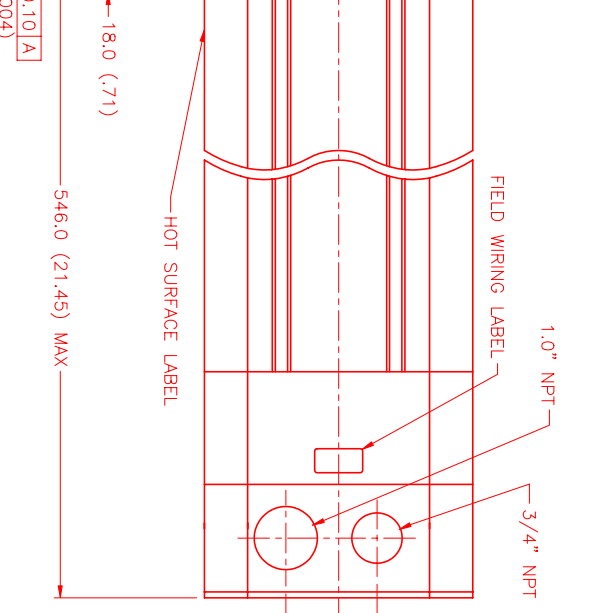
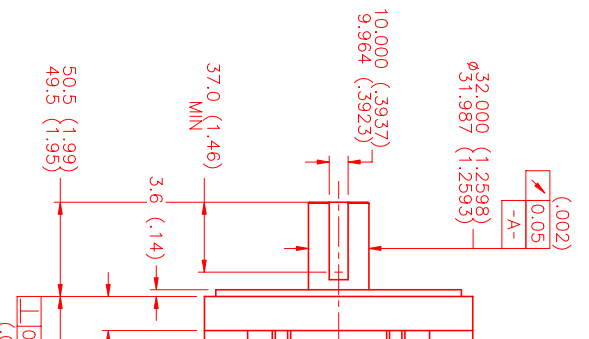
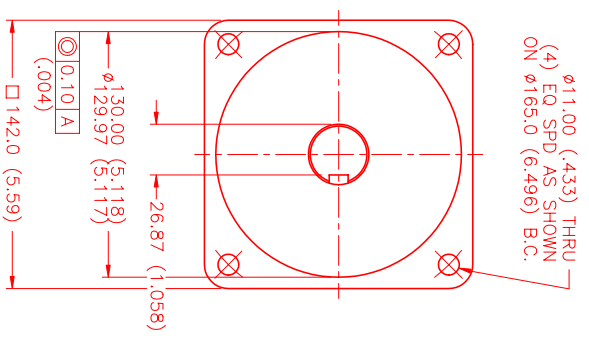
**MOTOR DATA @ 460 VAC (TRAP)**

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	7.6
KILOWATTS	KW	5.7
MAX. OPERATING SPEED	N. MAX RPM	1750
SPEED @ RATED TORQUE	N RATED RPM	1500
* CONTINUOUS RATED TORQUE @ 2800 RPM	IN-LBS[Nm]	320.0[36.0]
* CONTINUOUS STALL TORQUE	IN-LBS[Nm]	360.0[40.7]
CONTINUOUS LINE CURRENT	AMPS	13.6
PEAK TORQUE	IN-LBS[Nm]	1081.0[122.2]
PEAK CURRENT	AMPS	40.6
MAX. THEORETICAL ACCEL.	RAD/SEC <sup>2</sup>	30,710
TORQUE SENSITIVITY	Kt[IN-LBS/AMP][Nm/AMP]	26.6[3.0]
BACK EMF (LINE TO LINE)	Vrms/Krpm	230.0
D.C. RESISTANCE (P-P)	OHMS	1.2
INDUCTANCE (P-P)	MILLIHENRIES	11.1
ROTOR INERTIA	Jm[IN-LBS-SEC <sup>2</sup> ][Kg-M <sup>2</sup> ]	.0352[.00397]
STATIC FRICTION	Tf[IN-LBS][Nm]	4.2[0.47]

\*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 12" X 12" X 1/2" 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:**

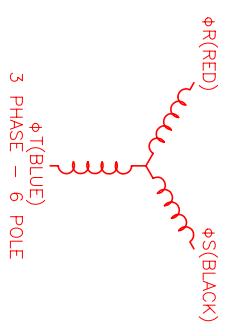
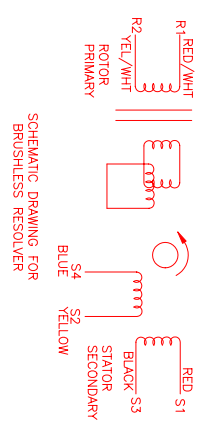
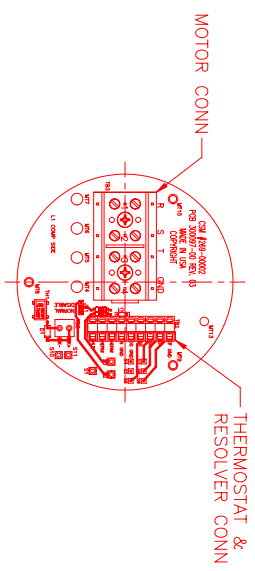
1. AXIAL LOAD: 50 LBS MAX
2. RADIAL LOAD: 150 LBS MAX @ 1" FROM FACE
3. MOTOR SEALED TO IP65.
4. MOTOR WEIGHT: 83 LBS. [ 37.6 kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
7. MILLIMETERS (INCHES)



**CONNECTION CHART**

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

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1	RED	S9 REF GND
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		S5 COS GND
		S4 SIN GND
		S3 THERM
		S2 THERM
		S1 RES SHLD



NO. 1	PART NUMBER	DESCRIPTION	QTY.
UNLESS SPECIFIED			
DECIMAL ANGLES	30° & 45°		
FRAC. ANGLES	1/2°		
ANGLES	1/2°		
ISSUED BY	MVS		
DATE	8/4/99		
CHECKED			
APPROVED			
DRAWING NUMBER	MPM1424DTUG3N	SCALE	1/2:1

REV.	DESCRIPTION	DATE	APP'D.
PRELIMINARY		8/4/99	MVS

MTS	MPM1424DTUG3N
REVISONS	

**MTS** MTS Systems Corporation  
Automation Division