

**MOTOR DATA @ 230 VAC (TRAP)**

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	.82
KILOWATTS	KW	.62
MAX. OPERATING SPEED	N. MAX RPM	5000
SPEED @ RATED TORQUE	N RATED RPM	4000
* CONTINUOUS RATED TORQUE @ 4000 RPM	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. TORQUE SENSITIVITY	RAD/SEC <sup>2</sup>	95.610
BACK EMF (LINE TO LINE)	Vrms/Krpm	4.2[.48]
D.C. RESISTANCE (P-P)	OHMS	3.9
INDUCTANCE (P-P)	MILLIHENRIES	10.4
ROTOR INERTIA	Jm [IN-LBS-SEC <sup>2</sup> ] [Kg-M <sup>2</sup> ]	.0006151[.0000693]
STATIC FRICTION	Tf [IN-LBS[Nm]]	.4[.05]

\*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 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:**

1. AXIAL LOAD: 25 LBS MAX
2. RADIAL LOAD: 40 LBS MAX @ 1" FROM FACE
3. MOTOR SEALED TO IP65.
4. MOTOR WEIGHT: 6.6 LBS. [ 3.0 Kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
7. INCHES (MILLIMETERS)

**ENCODER: (290-00107)**

OH48-409666-L6-5V

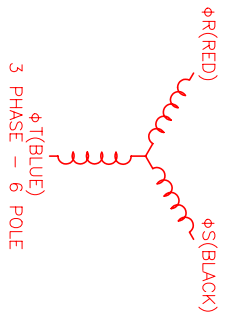
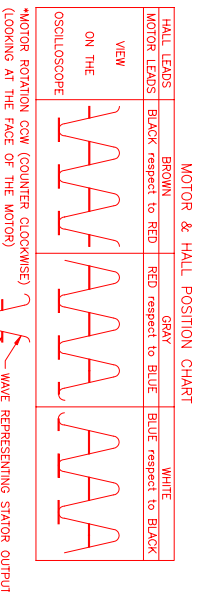
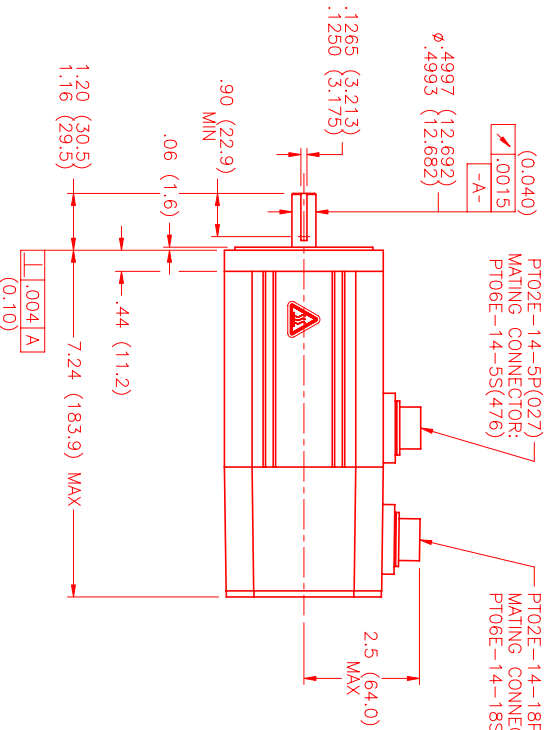
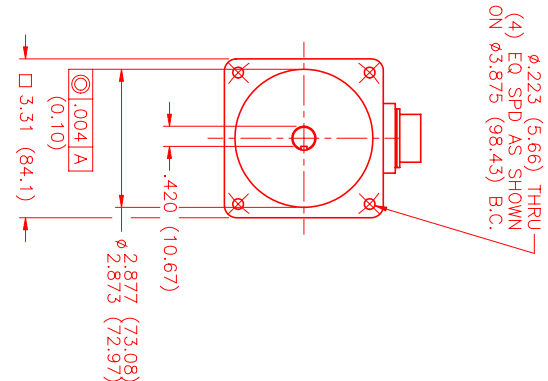
**CONNECTION CHART**

MOTOR CONNECTOR:  
PT02E-14-5P(027)  
(270-00026)

MOTOR WIRE LEADS	WIRE FUNCTION	WIRE COLOR
A	ΦR	RED
B	ΦS	BLACK
C	ΦT	BLUE
D	PE GND	GRN/YEL
E	-	-

ENCODER/THERM CONNECTOR:  
PT02E-14-18P(027)  
(270-00024)

END/THERM WIRE LEADS	PIN	WIRE FUNCTION	WIRE COLOR
	T	GROUND	BLACK
	K	+5VDC	RED
	B	CH A	BLUE
	C	CH A\	BLUE/BLK
	N	CH B	GREEN
	P	CH B\	GRN/BLK
	M	CH Z	YELLOW
	U	CH Z\	YEL/BLK
	E	CH U	BROWN
	R	CH U\	BRN/BLK
	F	CH V	GRAY
	S	CH V\	GRAY/BLK
	G	CH W	WHITE
	H	CH W\	WHT/BLK
	D	GND/CABLE SHLD	BLACK
	A	THERM	BLACK
	L	THERM	BLACK
	J	GND	GRN/YEL



NO.	PART NUMBER	DESCRIPTION	QTY.
1	MPM891ATG6JZ1N	MOTOR	1

DESIGNER:	DATE:	APPROVED:
CHECKED:	DATE: 3/8/01	
DRAWN:	TITLE:	
MATERIAL:		

REV.	DESCRIPTION	DATE	APPD.
PRELIMINARY		3/8/01	AJS

**MTS** MTS Systems Corporation  
Automation Division

REVISIONS

DATE: 3/8/01

SCALE: 1/2=1