Ⓐ MOTOR DATA @ 110 VAC (TRAP)

MOTOR PARAMETERS		UNITS	VALUE
HORSEPOWER	HP RATED	Hp	.16
KILOWATTS	KW RATED	KW	.12
MAX. OPERATING SPEED	N MAX	RPM	3000
SPEED @ RATED TORQUE	N RATED	RPM	2500
* CONTINUOUS RATED TORQUE @ 2500 RPM		IN-LBS[Nm]	4.0[.45]
* CONTINUOUS STALL TORQUE		IN-LBS[Nm]	5.0[.56]
CONTINUOUS LINE CURRENT		AMPS	1.6
PEAK TORQUE	Tpk	IN-LBS[Nm]	15.1[1.7]
PEAK CURRENT		AMPS	4.7
MAX. THEORETICAL ACCEL.		RAD/SEC²	155,670
TORQUE SENSITIVITY	Kt	IN-LBS/AMP[Nm/AMP]	3.2[.36]
BACK EMF (LINE TO LINE)	±10%	Vrms/Krpm	28.3
D.C. RESISTANCE (P-P)	±10%	OHMS	18.5
INDUCTANCE (P-P)	±10%	MILLIHENRIES	26.4
ROTOR INERTIA	Jm	IN-LBS-SEC²[Kg-M²]	.000097[.0000109]
STATIC FRICTION	Tf	IN-LBS[Nm]	.5[.06]

*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: 15 LBS MAX
2. RADIAL LOAD: 20 LBS MAX @ 1" FROM FACE
3. MOTOR SEALED TO IP65.
4. MOTOR WEIGHT: 2.6 LBS [1.2 Kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
7. INCHES (MILLIMETERS)

ENCODER: (290-00065)
OIH35-1000P4-L6-5V

CONNECTION CHART
MOTOR/ENCODER/THERM CONNECTOR:
PT02E-16-23P(027)
(270-00219)

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

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

TITLE:	DRAWING NUMBER:
"B"/ENG/T1/CONN	MPM662BTF6JM1N

REVISIONS

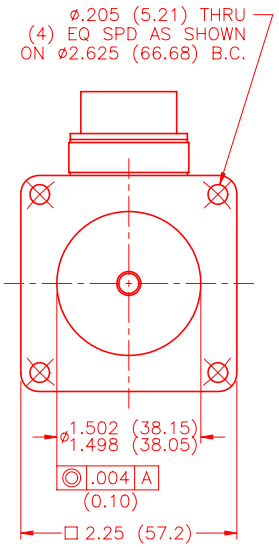
REV.	DESCRIPTION	DATE	APPD.
	PRELIMINARY	12/10/98	LIN
A	E.C.O. – 540	10/7/99	MVS

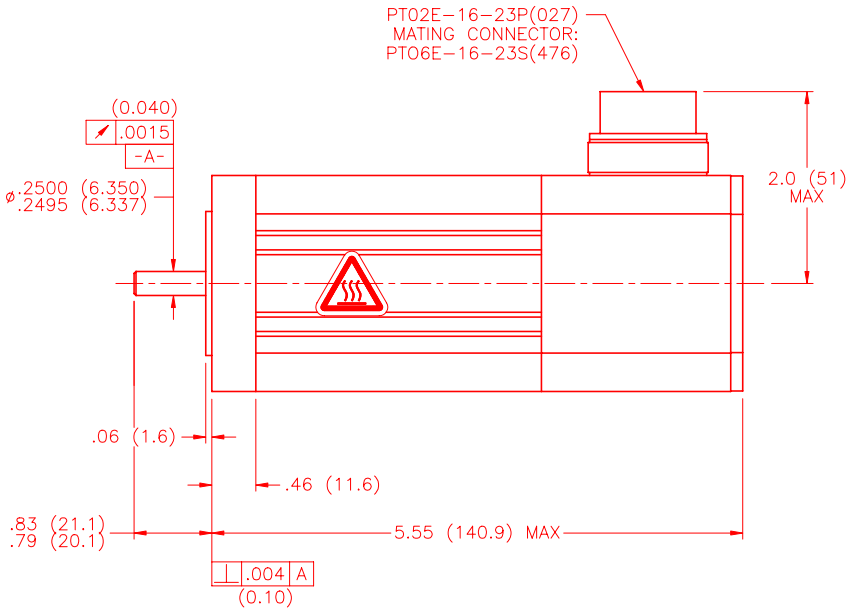
MOTOR & HALL POSITION CHART

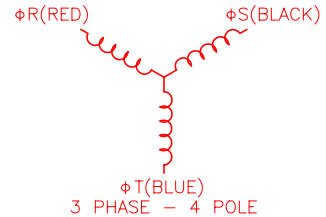
HALL LEADS	BROWN	GRAY	WHITE
MOTOR LEADS	BLACK respect to RED	RED respect to BLUE	BLUE respect to BLACK
VIEW ON THE OSCILLOSCOPE			

*MOTOR ROTATION CCW (COUNTER CLOCKWISE)
(LOOKING AT THE FACE OF THE MOTOR)

WAVE REPRESENTING STATOR OUTPUT
WAVE REPRESENTING HALL SENSOR







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

DRAWN: LIN	TITLE: "B"/TRAP/110/ENG/T1/CONN	REV. A
DATE: 12/10/98		
CHECKED:	MATERIAL:	
APPROVED:	DRAWING NUMBER: MPM662BTF6JM1N	SCALE: 1:1