

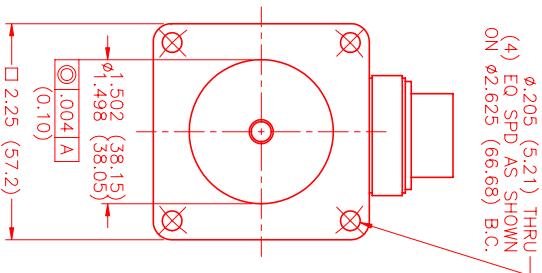
MOTOR DATA @ 110 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	.15
KILOWATTS	KW	.11
MAX. OPERATING SPEED	N. MAX RPM	6000
SPEED @ RATED TORQUE	N RATED RPM	4000
* CONTINUOUS RATED TORQUE @ 4000 RPM	IN-LBS[Nm]	2.3[.26]
* CONTINUOUS STALL TORQUE	IN-LBS[Nm]	2.6[.29]
CONTINUOUS LINE CURRENT	AMPS	3.0
PEAK TORQUE	IN-LBS[Nm]	7.8[0.9]
PEAK CURRENT	AMPS	9.7
MAX. THEORETICAL ACCEL.	RAD/SEC ²	118,182
TORQUE SENSITIVITY	Kt [N-LBS/AMPI Nm/AMP]	1.03[.12]
BACK EMF (LINE TO LINE)	Vrms/Krpm	9.2
D.C. RESISTANCE (P-P)	OHMS	6.9
INDUCTANCE (P-P)	MILLIHENRIES	7.7
ROTOR INERTIA	Jm [IN-LBS-SEC ²] Kg-M ²	.000066[.0000075]
STATIC FRICTION	Tf [IN-LBS] [Nm]	.35[.040]

*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: 2.2 LBS. [1.0 kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL



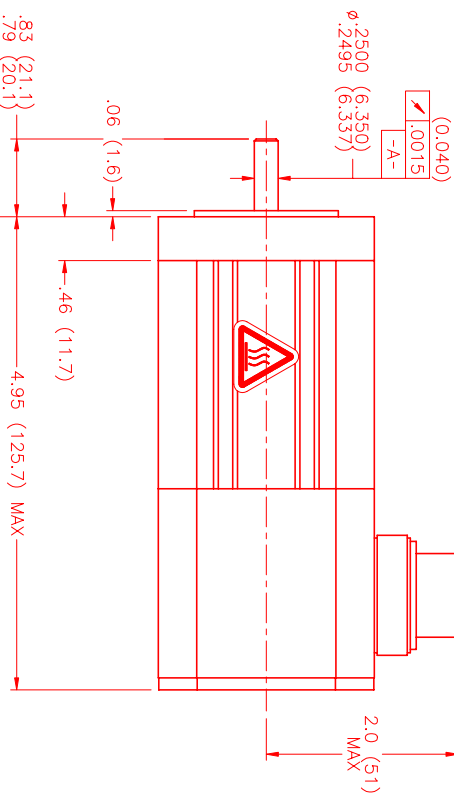
(4) EQ. SPD. AS SHOWN ON Ø2.625 (66.68) B.C.

CONNECTION CHART MOTOR/THERM/RESOLVER CONNECTOR: PTO2E-14-18P(027) (270-00024)

MTR/THERM/RES	WIRE	WIRE	WIRE
PIN	FUNCTION	COLOR	LEADS
A	ΦR	RED	
B	ΦS	BLACK	
C	ΦT	BLUE	
D	PE GND	GRN/YEL	
U	THERM	BLACK	
N	THERM	BLACK	
H	SIN	YELLOW	
G	COS GND	BLACK	
S	COS	RED	
F	SIN GND	BLUE	
R	REF GND	YEL/WHI	
E	REF	RED/WHI	
J	RES SHLD	GRN/YEL	
K	-	-	
L	-	-	
M	-	-	
P	-	-	
T	-	-	

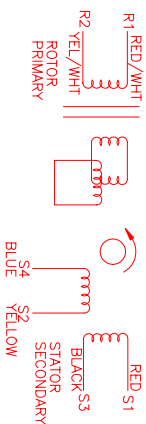
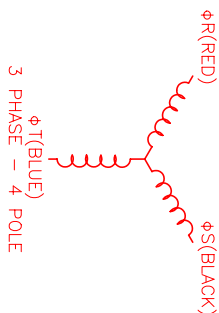
REV.	DESCRIPTION	DATE	APP.
PRELIMINARY		4/11/00	LIN

DATE: 4/11/00
DRAWING NUMBER: MPM661ATF6G1N



PTO2E-14-18P(027)
MATING CONNECTOR:
PTO6E-14-18S(476)

2.0 (51)
MAX



SCHEMATIC DRAWING FOR BRUSHLESS RESOLVER

NO.	PART NUMBER	DESCRIPTION	QTY.
UNLESS SPECIFIED			
DESIGN: MDS # 405			
REVISION: 1			
DATE: 6/20/99			
APPROVED: ELS			
DRAWN: MPM661ATF6G1N			
CHECKED:			
APPROVED:			

MTS
Automation Division

SCALE: 1:1