

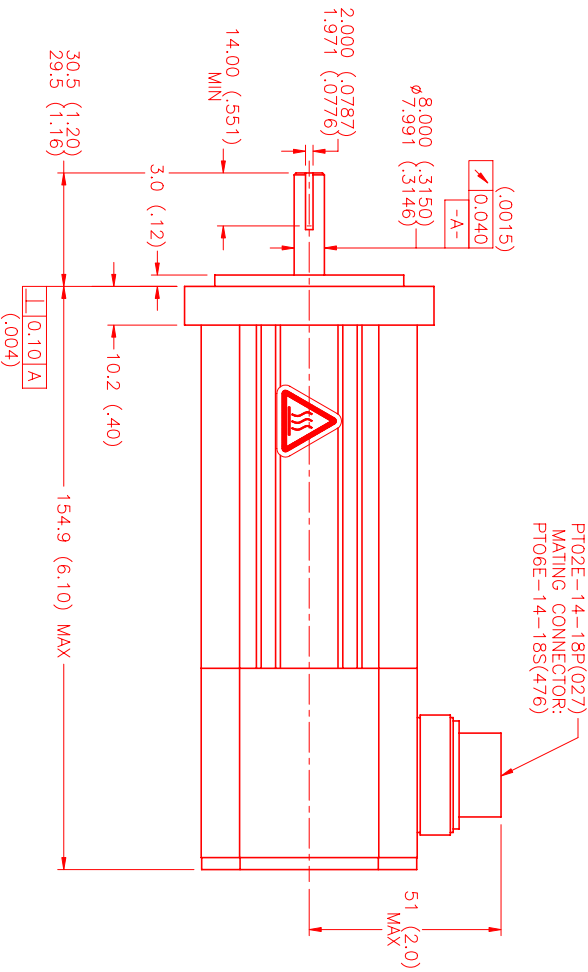
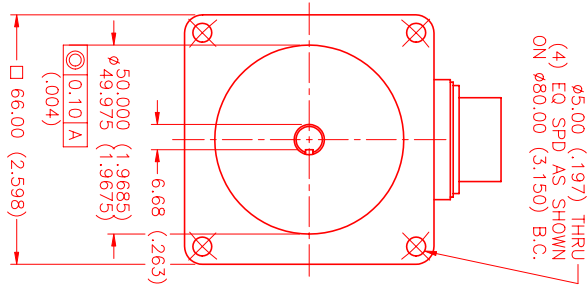
**MOTOR DATA @ 110 VAC (TRAP)**

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP RATED	0.36
KILOWATTS	KW RATED	0.27
MAX. OPERATING SPEED	N MAX RPM	5500
SPEED @ RATED TORQUE	N RATED RPM	4500
* CONTINUOUS RATED TORQUE	IN-LBS[Nm]	5.0 [.56]
* CONTINUOUS STALL TORQUE	IN-LBS[Nm]	7.5 [.85]
CONTINUOUS LINE CURRENT	AMPS	3.8
PEAK TORQUE	IN-LBS[Nm]	22.5 [2.54]
PEAK CURRENT	AMPS	11.3
MAX. THEORETICAL ACCEL.	RAD/SEC <sup>2</sup>	175,781
TORQUE SENSITIVITY	Kt [N-LBS/AMP] [Nm/AMP]	2.0 [23]
BACK EMF (LINE TO LINE)	Vrms/Krpm	17.8
D.C. RESISTANCE (P-P)	OHMS	5.2
INDUCTANCE (P-P)	MILLIHENRIES	7.0
ROTOR INERTIA	Jm [IN-LBS-SEC <sup>2</sup> ] [Kg-M <sup>2</sup> ]	.000128 [.0000145]
STATIC FRICTION	Tf [IN-LBS] [Nm]	.65 [.073]

\*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 10" X 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.

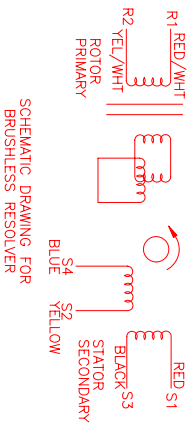
**MECHANICAL NOTES:**

1. AXIAL LOAD: 15 LBS MAX
2. RADIAL LOAD: 20 LBS MAX @ 1" FROM FACE
3. MOTOR SEALED TO IP65.
4. MOTOR WEIGHT: 3.2 LBS. [ 1.5 kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
7. INCHES (MILLIMETERS)

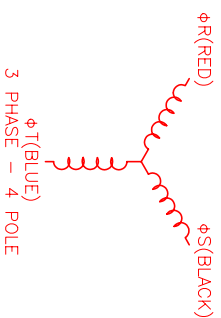


**CONNECTION CHART**  
**MOTOR/THERM/RESOLVER CONNECTOR:**  
 PTO2E-14-18P(027)  
 (270-00024)

MTR/THERM/RES	WIRE LEADS
PIN	WIRE FUNCTION WIRE COLOR
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	-



SCHEMATIC DRAWING FOR BRUSHLESS RESOLVER



3 PHASE - 4 POLE

DATE: 4/12/00	REV: PRELIMINARY
DESCRIPTION: MPM663ATF7G1N	REV: 4/12/00
REVISIONS:	DATE: 4/12/00
APPROVED:	DATE: 4/12/00

NO.:	PART NUMBER:	DESCRIPTION:	QTY:
UNLESS SPECIFIED			
DESIGN: MVS	DATE: 11/25/98	TITLE: "A" /TRAP/110/MET/RES/CONN	REV: 1
CHECKED: MVS	DATE: 11/25/98	TITLE: "A" /TRAP/110/MET/RES/CONN	REV: 1
APPROVED: MVS	DATE: 11/25/98	TITLE: "A" /TRAP/110/MET/RES/CONN	REV: 1
SCALE: 1:1			

**MTS** MTS Systems Corporation  
 Automation Division