

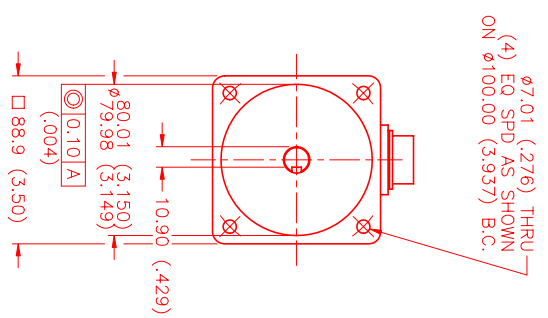
MOTOR DATA @ 230 VAC (SINE)

MOTOR PARAMETERS	UNITS	VALUE
MOTOR HORSEPOWER	HP RATED	.35
	HP	.41
	KW RATED	.26
MAX. OPERATING SPEED	N MAX	3000
SPEED @ RATED TORQUE	N RATED	2400
* CONTINUOUS RATED TORQUE @ 2400 RPM	IN-LBS [Nm]	14.5 [1.64]
* CONTINUOUS STALL TORQUE	IN-LBS [Nm]	16.0 [1.81]
CONTINUOUS LINE CURRENT	AMPS (RMS/φ)	1.3
PEAK TORQUE	IN-LBS [Nm]	58.8 [6.64]
PEAK CURRENT	AMPS (RMS/φ)	4.9
MAX. THEORETICAL ACCEL.	RAD/SEC ²	95,610
TORQUE SENSITIVITY	IN-LBS/AMP (RMS/φ) [Nm/AMP (RMS/φ)]	11.9 [1.34]
BACK EMF (LINE TO LINE)	Vrms/Krpm	75.2
D.C. RESISTANCE (P-P)	OHMS	15.4
INDUCTANCE (P-P)	MILLIHENRIES	39.6
ROTOR INERTIA	Jm [IN-LBS-SEC ²] [Kg-M ²]	.000615 [0.000693]
STATIC FRICTION	Tf [IN-LBS] [Nm]	.4 [0.05]

*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:

- AXIAL LOAD: 25 LBS MAX
- RADIAL LOAD: 40 LBS MAX @ 1" FROM FACE
- MOTOR SEALED TO IP65.
- MOTOR WEIGHT: 7.2 LBS. [3.3 Kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)



CONNECTION CHART

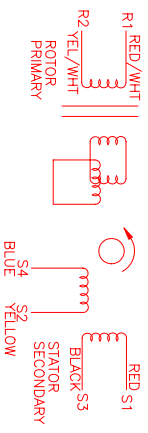
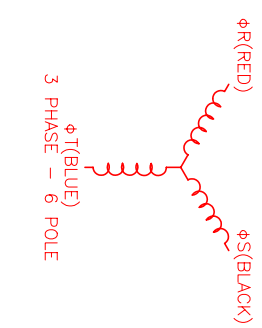
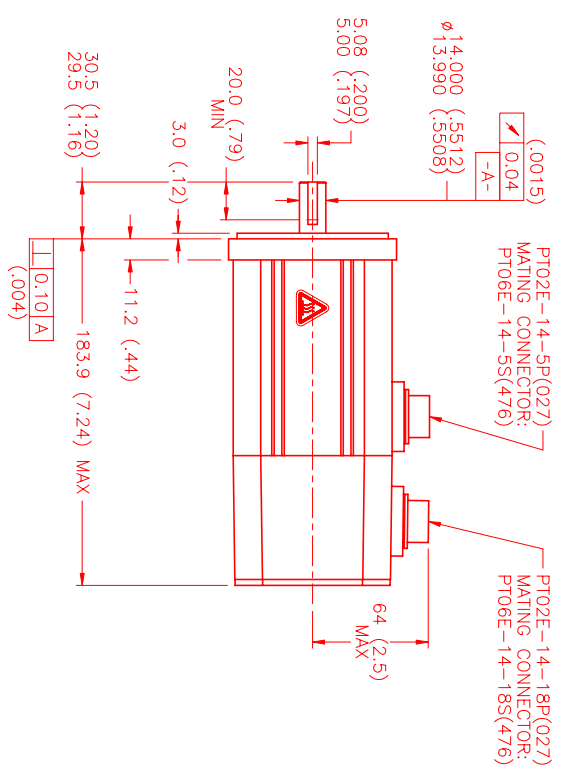
MOTOR CONNECTOR:
PT02E-14-5P(027)
(270-00026)

PIN	WIRE FUNCTION	WIRE COLOR	LEADS
A	φR	RED	
B	φS	BLACK	
C	φT	BLUE	
D	PE GND	GRN/YEL	
E	-	-	

RESOLVER/THERM CONNECTOR:

PT02E-14-18P(027)
(270-00024)

PIN	WIRE FUNCTION	WIRE COLOR	LEADS
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	
D	RES SHLD	GRN/YEL	
P	GND	GRN/YEL	
A	-	-	
B	-	-	
C	-	-	
J	-	-	
K	-	-	
L	-	-	
M	-	-	
T	-	-	



SCHEMATIC DRAWING FOR BRUSHLESS RESOLVER
RESOLVER IS SET FOR A TBF/R AMPLIFIER

NO.	PART NUMBER	DESCRIPTION	QTY.
1	PT02E-14-5P(027)	MOTOR	1
2	PT02E-14-18P(027)	MOTOR CONNECTOR	1
3	PT02E-14-18S(476)	MATING CONNECTOR	1
4	PT02E-14-18P(027)	MATING CONNECTOR	1

MTS Automation Division

DATE: 2/26/02
DRAWN: MPM891BSG7H1N
CHECKED: []
APPROVED: []
SCALE: 1/2=1