

MOTOR DATA @ 95 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
MOTOR HORSEPOWER	HP RATED	0.52
	KW RATED	0.39
MAX OPERATING SPEED	N MAX RPM	1450
SPEED @ RATED TORQUE	N RATED RPM	950
* CONTINUOUS RATED TORQUE	IN-LBS/Nm	34.0/3.81
CONTINUOUS LINE CURRENT	AMPS	38.0/4.3
PEAK TORQUE	IN-LBS/Nm	5.9
MAX THEORETICAL ACCEL	AMPS	114.0/12.91
TORQUE SENSITIVITY	RAO/SEC ²	1.78
BACK EMF (LINE TO LINE)	Kt IN-LBS/AMPI/Nm/AMP ²	60.0/0.0
D.C. RESISTANCE (P-P)	Vrms/Krpm	6.40/0.721
INDUCTANCE (P-P)	OHMS	57.0
ROTOR INERTIA	MILLIHENRIES	3.3
STATIC FRICTION	μm(IN-LBS-SEC ² /KG-M ²)	17.1
	IN-LBS(Nm)	0.00191/0.000211
	Tf	0.81/0.091

*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 12" X 12" X 1/2" 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: 50 LBS MAX
- RADIAL LOAD: 100 LBS MAX @ 1" FROM FACE
- MOTOR SEALED TO IP65.
- MOTOR WEIGHT: 13.2 LBS. [6.0 kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)

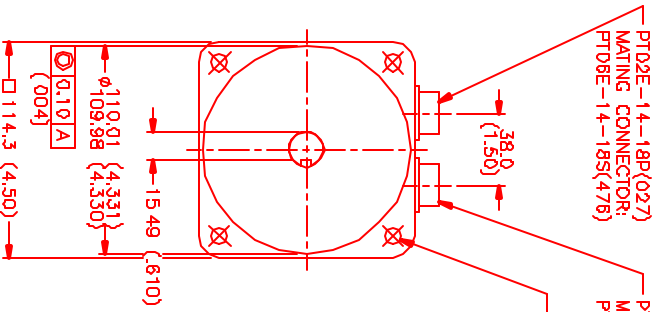
CONNECTION CHART

MOTOR CONNECTOR:
PT02E-14-5P(027)
(270-00028)

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

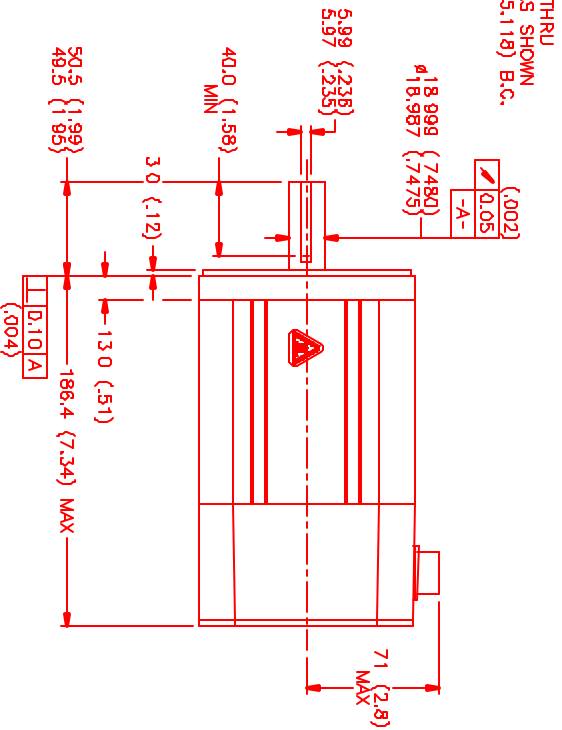
RESOLVER/THERM CONNECTOR:
PT02E-14-18P(027)
(270-00024)

RES/THERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR
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	-	-

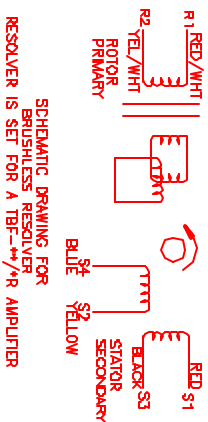
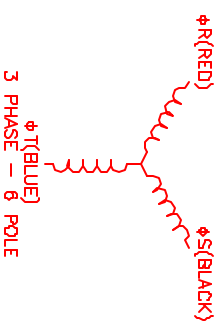


PT02E-14-18P(027)
MATING CONNECTOR:
PT08E-14-18S(478)

PT02E-14-5P(027)
MATING CONNECTOR:
PT08E-14-5S(478)



REV	REVISION	DATE	APP'D.
1	PRELIMINARY	2/19/01	MS



SCHEMATIC DRAWING FOR BRUSHLESS RESOLVER
RESOLVER IS SET FOR A TRF-4/R AMPLIFIER

NO.	PART NUMBER	DESCRIPTION	QTY.
1	MPS Systems Corporation Automation Division		
TITLE: TRAP/95/MET/TBRV/COAN PART NUMBER: MPM1140ATP7H1N REV: 1/2/1			