

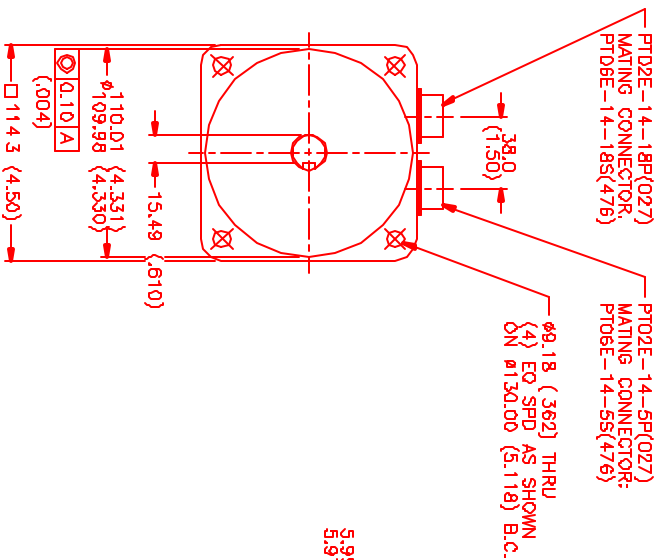
**MOTOR DATA @ 230 VAC (TRAP)**

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP RATED	0.76
KILOWATTS	KW RATED	0.56
MAX. OPERATING SPEED	N MAX	1900
SPEED @ RATED TORQUE	N RATED	1400
* CONTINUOUS RATED TORQUE	N-LEBS [Nm]	34.0 [3.8]
* CONTINUOUS STALL TORQUE	N-LEBS [Nm]	36.0 [4.3]
CONTINUOUS LINE CURRENT	AMPS	3.0
PEAK TORQUE	N-LEBS [Nm]	114.0 [12.9]
PEAK CURRENT	AMPS	9.0
MAX. THEORETICAL ACCEL	RAD/SEC <sup>2</sup>	80,000
TORQUE SENSITIVITY	K <sub>t</sub> N-LEBS/AMP [Nm/AMP]	12.4 [1.40]
BACK EMF (LINE TO LINE)	Vrms/Krpm	110.0
D.C. RESISTANCE (P-P)	OHMS	13.1
INDUCTANCE (P-P)	MILLIHENRIES	64.6
ROTOR INERTIA	Jm [N-LEBS-SEC <sup>2</sup> Kg-M <sup>2</sup> ]	0.001910 [0.00211]
STATIC FRICTION	Tf [N-LEBS [Nm]	0.8 [0.09]

\*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:**

1. AXIAL LOAD: 50 LBS MAX
2. RADIAL LOAD: 100 LBS MAX @ 1" FROM FACE
3. MOTOR SEALED TO IP65.
4. MOTOR WEIGHT: 13.2 LBS. [ 6.0 kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
7. MILLIMETERS (INCHES)



**CONNECTION CHART**

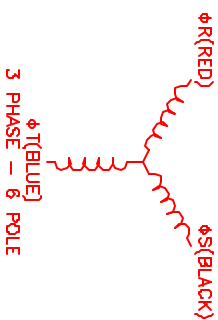
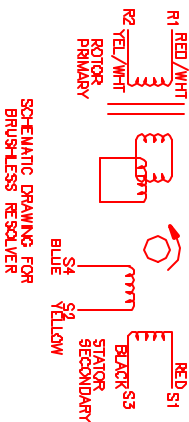
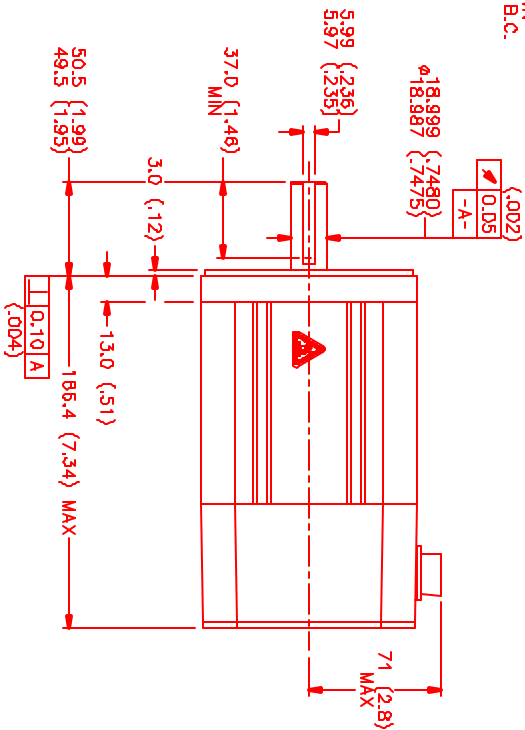
MOTOR CONNECTOR:  
PTD2E-14-5P(027)  
(270-00026)

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

**RESOLVER/THERM. CONNECTOR:**

PTD2E-14-18P(027)  
(270-00024)

PIN	WIRE FUNCTION	WIRE COLOR
A	RES	RED
B	THERM	BLACK
C	THERM	BLACK
D	SIN	YELLOW
E	RES SHLD	GRN/YEL
F	SIN GND	BLUE
G	RES SHLD	GRN/YEL
H	RES SHLD	GRN/YEL
I	RES SHLD	GRN/YEL
J	RES SHLD	GRN/YEL
K	RES SHLD	GRN/YEL
L	RES SHLD	GRN/YEL
M	RES SHLD	GRN/YEL
N	RES SHLD	GRN/YEL
O	RES SHLD	GRN/YEL
P	RES SHLD	GRN/YEL
Q	RES SHLD	GRN/YEL
R	RES SHLD	GRN/YEL
S	RES SHLD	GRN/YEL
T	RES SHLD	GRN/YEL



NO.	PART NUMBER	DESCRIPTION	QTY.
1	MPM1140BTG7G1N	MPS Systems Corporation Automation Division	1
<p>UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES AND DECIMALS THEREOF. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS. DIMENSIONS IN PARENTHESES TAKE PRECEDENCE OVER DIMENSIONS IN BRACKETS. DIMENSIONS IN BRACKETS TAKE PRECEDENCE OVER DIMENSIONS IN PARENTHESES. DIMENSIONS IN PARENTHESES TAKE PRECEDENCE OVER DIMENSIONS IN BRACKETS. DIMENSIONS IN PARENTHESES TAKE PRECEDENCE OVER DIMENSIONS IN BRACKETS. DIMENSIONS IN PARENTHESES TAKE PRECEDENCE OVER DIMENSIONS IN BRACKETS.</p>			
DATE	11/15/00	TITLE	TRAP/230V/NET/RES/CGINN
DESIGNED	AJS	DRAWN	AWD
APPROVED		REV	1/2/1

REV.	DESCRIPTION	DATE	APP.
1	PRELIMINARY	11/15/00	AJS

TITLE: TRAP/230V/NET/RES/CGINN  
REVISED: MPM1140BTG7G1N