

MOTOR DATA @ 230 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP RATED	1.8
KILOWATTS	KW RATED	1.33
MAX. OPERATING SPEED	N MAX	2100
SPEED @ RATED TORQUE	RPM	1500
* CONTINUOUS RATED TORQUE @ 1500 RPM	IN-LBS [Nm]	75.0 [8.4]
* CONTINUOUS STALL TORQUE	IN-LBS [Nm]	83.0 [9.3]
CONTINUOUS LINE CURRENT	AMPS	6.7
PEAK TORQUE	IN-LBS [Nm]	290.5 [32.7]
PEAK CURRENT	AMPS	23.4
MAX. THEORETICAL ACCEL.	RAD/SEC ²	41,500
TORQUE SENSITIVITY	Kt IN-LBS/AMP [Nm/AMP]	12.4 [1.42]
BACK EMF (LINE TO LINE)	Vrms/Krpm	110.0
D.C. RESISTANCE (P-P)	OHMS	1.8
INDUCTANCE (P-P)	MILLIHENRIES	12.6
ROTOR INERTIA W/BRAKE	Jm [IN-LBS-SEC ²] Kg-M ²	.0070 [0.0079]
STATIC FRICTION	Tf [IN-LBS] [Nm]	1.4 [0.16]

*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: 31.8 LBS. [14.4 kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
7. MILLIMETERS (INCHES)

ENCODER: (290-00052)

OH48-2000P6-L6-5V
 FAILSAFE BRAKE:
 MIN HOLDING TORQUE: 240 IN-LBS
 INPUT VOLTAGE: 24 VOLTS

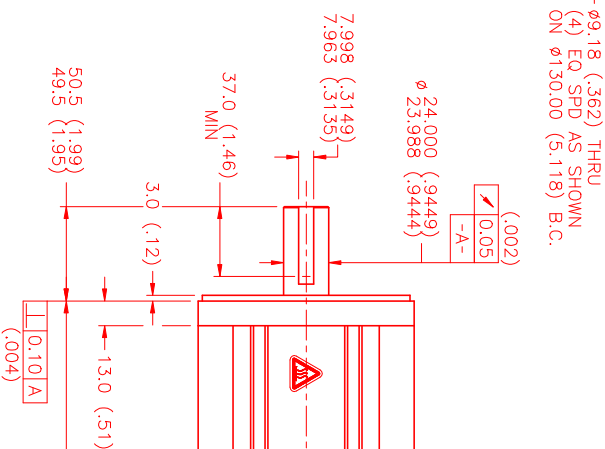
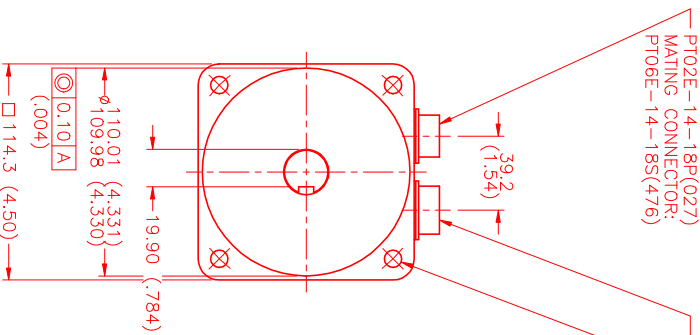
CONNECTION CHART

MOTOR/BRAKE CONNECTOR:
 PTO2E-16-8P(027)
 (270-00032)

MOTOR/BRAKE WIRE LEADS	PIN	WIRE FUNCTION	WIRE COLOR
A	ΦR	RED	RED
B	ΦS	BLACK	BLACK
C	ΦT	BLUE	BLUE
D	PE GND	GRN/YEL	GRN/YEL
E	BRK SHLD	-	-
F	BRK (+)	DIODE	GRN/BLK
G	BRK (-)	1N4007	YEL/BLK
H	-	-	-

ENCODER/THERM CONNECTOR:
 PTO2E-14-18P(027)
 (270-00024)

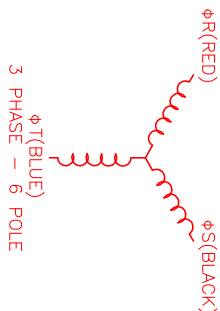
ENC/THERM WIRE LEADS	PIN	WIRE FUNCTION	WIRE COLOR
T	GROUND	BLACK	BLACK
K	+5VDC	RED	RED
B	CH A	BLUE	BLUE
C	CH A	BLUE/BLK	BLUE/BLK
N	CH B	GREEN	GREEN
P	CH B	GRN/BLK	GRN/BLK
M	CH Z	YELLOW	YELLOW
U	CH Z	YEL/BLK	YEL/BLK
E	CH U	BROWN	BROWN
R	CH U	BRN/BLK	BRN/BLK
F	CH V	GRAY	GRAY
S	CH V	GRAY/BLK	GRAY/BLK
G	CH W	WHITE	WHITE
H	CH W	WHT/BLK	WHT/BLK
D	GND/CABLE	SHLD	SHLD
A	THERM	BLACK	BLACK
L	THERM	BLACK	BLACK
J	GND	GRN/YEL	GRN/YEL



MOTOR & HALL POSITION CHART

HALL LEADS	BROWN	GRAY	WHITE
MOTOR LEADS	BLACK respect to RED	RED respect to BLUE	BLUE respect to BLACK

*MOTOR ROTATION C/W (COUNTER CLOCKWISE) (LOOKING AT THE FACE OF THE MOTOR)



NO.	PART NUMBER	DESCRIPTION	QTY.
UNLDES	MPM1142BTGJUN1R	MTS Automation Division	
DATE:	7/20/99	SCALE:	1/2:1
APPROVED:			