

MOTOR DATA @ 230 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	1.96
KILOWATTS	KW RATED	1.46
MAX. OPERATING SPEED	N MAX	4100
SPEED @ RATED TORQUE	RPM	3600
* CONTINUOUS RATED TORQUE @ 3600 RPM	IN-LBS [Nm]	34.4 [3.8]
* CONTINUOUS STALL TORQUE	IN-LBS [Nm]	39.0 [4.4]
CONTINUOUS LINE CURRENT	AMPS	6.3
PEAK TORQUE	IN-LBS [Nm]	137.0 [15.5]
PEAK CURRENT	AMPS	23.1
MAX. THEORETICAL ACCEL.	RAD/SEC ²	100,000
TORQUE SENSITIVITY	Kt [N-LBS/AMP [Nm/AMP]	6.2 [0.7]
BACK EMF (LINE TO LINE)	Vrms/Krpm	55.0
D.C. RESISTANCE (P-P)	OHMS	1.9
INDUCTANCE (P-P)	MILLIHENRIES	7.5
ROTOR INERTIA	Jm [N-LBS-SEC ² [Kg-M ²]	0.00137 [0.000154]
STATIC FRICTION	Tf [N-LBS] [Nm]	0.6 [0.07]

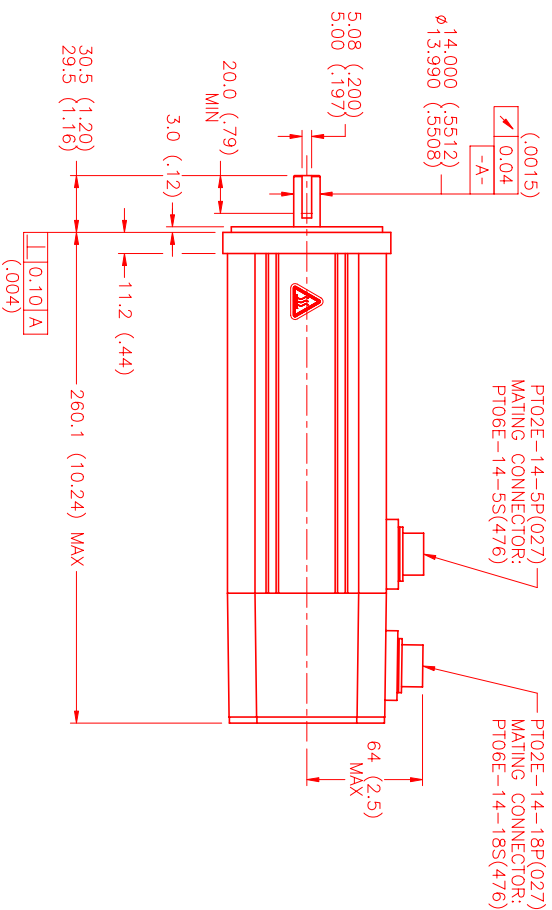
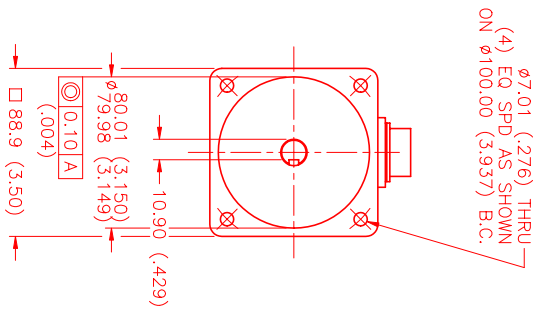
*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 10" X 10" X 10" X 1/4" ALUMINUM HEATSINK. THERMOSTAT IN STATOR WINDINGS WILL OPEN IF WINDING TEMPERATURE EXCEEDS 155°C. THIS ALLOWS FOR AN APPROXIMATE +10% HEADROOM IN THE CONTINUOUS TORQUE RATING BEFORE THERMOSTAT OPENS.

MECHANICAL NOTES:

- AXIAL LOAD: 25 LBS MAX
- RADIAL LOAD: 40 LBS MAX @ 1" FROM FACE
- MOTOR SEALED TO IP65.
- MOTOR WEIGHT: 12.4 LBS. [5.6 kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)

ENCODER: (290-00073)

OH48-2048P6-L6-5V



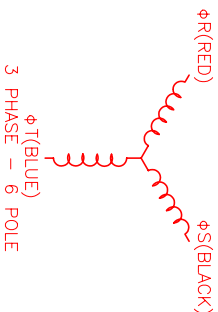
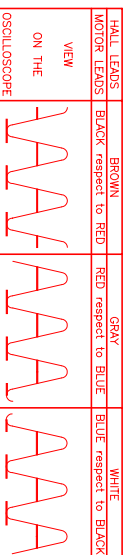
CONNECTION CHART

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

MOTOR CONNECTOR:
PTO2E-14-5P(027)
(270-00026)

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

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



NO.	PART NUMBER	DESCRIPTION	QTY.
UNLESS SPECIFIED			
DESIGN			
DATE	6/11/99		
BY	ELS		
CHECKED			
APPROVED			

MTS
Automation Division

REV.	DESCRIPTION	DATE	APP.
PRELIMINARY		9/15/00	LIN