

MOTOR DATA @ 230 VAC (SINE)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	1.96
KILOWATTS	KW	1.46
MAX. OPERATING SPEED	N. MAX RPM	4100
SPEED @ RATED TORQUE	N RATED 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(RMS/φ)	4.5
PEAK TORQUE	IN-LBS(Nm)	137.0(15.5)
PEAK CURRENT	AMPS(RMS/φ)	16.3
MAX. THEORETICAL ACCEL.	RAD/SEC ²	100,000
TORQUE SENSITIVITY	Kt (IN-LBS/AMP(RMS/φ)) / (Nm/AMP(RMS/φ))	8.8(.991)
BACK EMF (LINE TO LINE)	±10% Vrms/Krpm	55.0
D.C. RESISTANCE (P-P)	±10% OHMS	1.9
INDUCTANCE (P-P)	±10% MILLIHENRIES	7.2
ROTOR INERTIA	Jm (IN-LBS-SEC ²) [Kg-M ²]	.00137(.000154)
STATIC FRICTION	Tf (IN-LBS(Nm))	.6(.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: 12.2 LBS. [5.5 Kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- INCHES (MILLIMETERS)

ENCODER: (290-00142)

OH48-1024P6-L6-SV

CONNECTION CHART

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

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

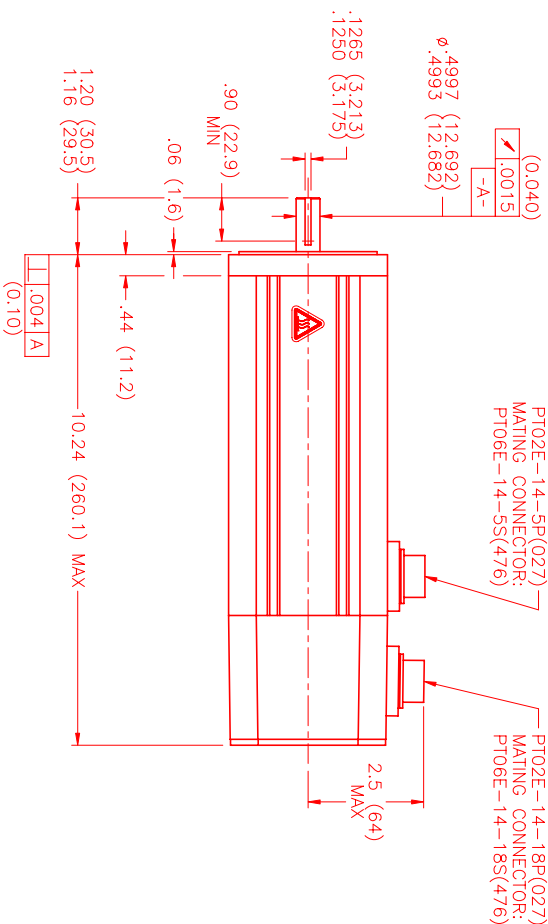
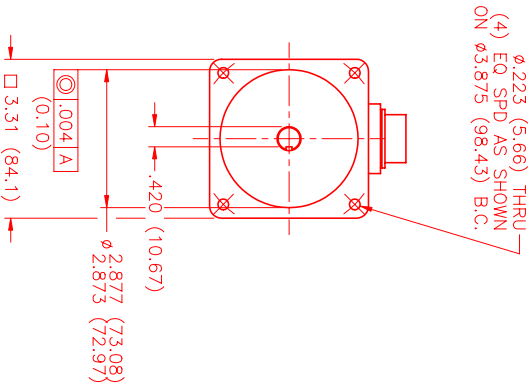
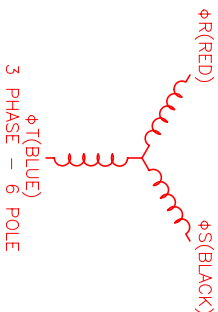
ENCODER/THERM CONNECTOR:
PT02E-14-18P(027)
(270-00024)

ENC/THERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR
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 & HALL POSITION CHART

HALL LEADS	BROWN	GRAY	WHITE
MOTOR LEADS	BLACK respect to RED	RED respect to BLUE	BLUE respect to BLACK
VIEW ON THE OSCILLOSCOPE	AAAA	AAAA	AAAA

*MOTOR ROTATION CCW (COUNTER CLOCKWISE) (LOOKING AT THE FACE OF THE MOTOR)



PT02E-14-5P(027) MATING CONNECTOR: PT06E-14-5S(476)

PT02E-14-18P(027) MATING CONNECTOR: PT06E-14-18S(476)

NO.	PART NUMBER	DESCRIPTION	QTY
1	290-00142	Encoder	1
2	OH48-1024P6-L6-SV	Encoder	1
3	290-00142	Encoder	1
4	OH48-1024P6-L6-SV	Encoder	1
5	290-00142	Encoder	1
6	OH48-1024P6-L6-SV	Encoder	1
7	290-00142	Encoder	1
8	OH48-1024P6-L6-SV	Encoder	1
9	290-00142	Encoder	1
10	OH48-1024P6-L6-SV	Encoder	1
11	290-00142	Encoder	1
12	OH48-1024P6-L6-SV	Encoder	1
13	290-00142	Encoder	1
14	OH48-1024P6-L6-SV	Encoder	1
15	290-00142	Encoder	1
16	OH48-1024P6-L6-SV	Encoder	1
17	290-00142	Encoder	1
18	OH48-1024P6-L6-SV	Encoder	1
19	290-00142	Encoder	1
20	OH48-1024P6-L6-SV	Encoder	1
21	290-00142	Encoder	1
22	OH48-1024P6-L6-SV	Encoder	1
23	290-00142	Encoder	1
24	OH48-1024P6-L6-SV	Encoder	1
25	290-00142	Encoder	1
26	OH48-1024P6-L6-SV	Encoder	1
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97	290-00142	Encoder	1
98	OH48-1024P6-L6-SV	Encoder	1
99	290-00142	Encoder	1
100	OH48-1024P6-L6-SV	Encoder	1

REV.	DESCRIPTION	DATE	APP.
PRELIMINARY		10/11/01	AJS

DATE	DESCRIPTION	REV.
10/11/01	REVISIONS	1

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