

MOTOR DATA @ 230 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	1.10
KILOWATTS	KW	0.85
MAX. OPERATING SPEED	N. MAX RPM	2000
SPEED @ RATED TORQUE	RPM	1500
* CONTINUOUS RATED TORQUE @ 1500 RPM	IN-LBS[Nm]	36.0[4.0]
* CONTINUOUS STALL TORQUE	IN-LBS[Nm]	39.0[4.4]
CONTINUOUS LINE CURRENT	AMPS	3.0
PEAK TORQUE	IN-LBS[Nm]	137.0[15.5]
PEAK CURRENT	AMPS	11.1
MAX. THEORETICAL ACCEL.	RAD/SEC ²	100,000
TORQUE SENSITIVITY	K τ [IN-LBS/AMP][Nm/AMP]	12.4[1.42]
BACK EMF (LINE TO LINE)	$\pm 10\%$ $V_{rms}/krpm$	110.0
D.C. RESISTANCE (P-P)	$\pm 10\%$ OHMS	7.7
INDUCTANCE (P-P)	$\pm 10\%$ MILLIHENRIES	29.1
ROTOR INERTIA	Jm [IN-LBS-SEC ²][$Kg-M^2$]	.00137[.000154]
STATIC FRICTION	Tf [IN-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: 12.2 LBS. [5.5 Kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- INCHES (MILLIMETERS)

ENCODER: (290-00107)

OH48-409656-L6-5V

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	-	-

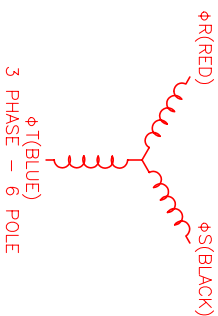
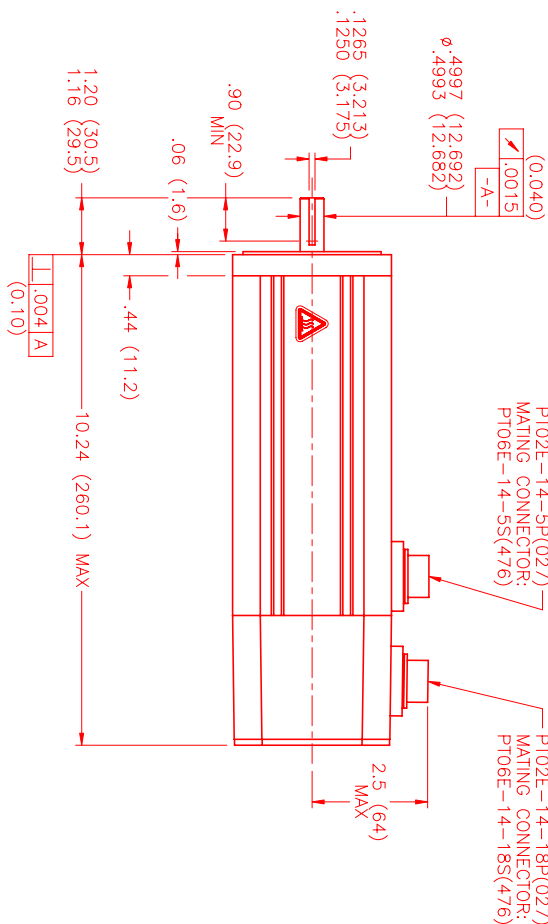
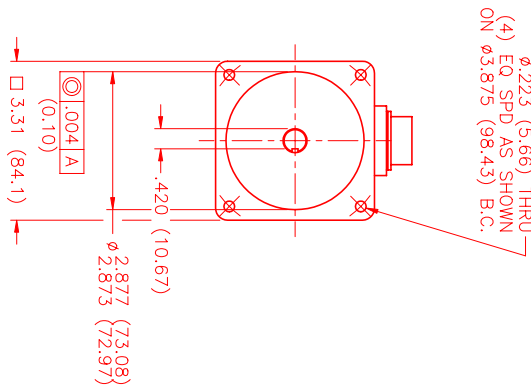
ENCODER/THERM CONNECTOR:
PT02E-14-18P(027)
(270-00024)

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

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



NO.	PART NUMBER	DESCRIPTION	QTY.
1	290-00107	Encoder	1
2	409656-L6-5V	Encoder	1
3	290-00107	Encoder	1
4	409656-L6-5V	Encoder	1
5	290-00107	Encoder	1
6	409656-L6-5V	Encoder	1
7	290-00107	Encoder	1
8	409656-L6-5V	Encoder	1
9	290-00107	Encoder	1
10	409656-L6-5V	Encoder	1
11	290-00107	Encoder	1
12	409656-L6-5V	Encoder	1
13	290-00107	Encoder	1
14	409656-L6-5V	Encoder	1
15	290-00107	Encoder	1
16	409656-L6-5V	Encoder	1
17	290-00107	Encoder	1
18	409656-L6-5V	Encoder	1
19	290-00107	Encoder	1
20	409656-L6-5V	Encoder	1
21	290-00107	Encoder	1
22	409656-L6-5V	Encoder	1
23	290-00107	Encoder	1
24	409656-L6-5V	Encoder	1
25	290-00107	Encoder	1
26	409656-L6-5V	Encoder	1
27	290-00107	Encoder	1
28	409656-L6-5V	Encoder	1
29	290-00107	Encoder	1
30	409656-L6-5V	Encoder	1
31	290-00107	Encoder	1
32	409656-L6-5V	Encoder	1
33	290-00107	Encoder	1
34	409656-L6-5V	Encoder	1
35	290-00107	Encoder	1
36	409656-L6-5V	Encoder	1
37	290-00107	Encoder	1
38	409656-L6-5V	Encoder	1
39	290-00107	Encoder	1
40	409656-L6-5V	Encoder	1
41	290-00107	Encoder	1
42	409656-L6-5V	Encoder	1
43	290-00107	Encoder	1
44	409656-L6-5V	Encoder	1
45	290-00107	Encoder	1
46	409656-L6-5V	Encoder	1
47	290-00107	Encoder	1
48	409656-L6-5V	Encoder	1
49	290-00107	Encoder	1
50	409656-L6-5V	Encoder	1
51	290-00107	Encoder	1
52	409656-L6-5V	Encoder	1
53	290-00107	Encoder	1
54	409656-L6-5V	Encoder	1
55	290-00107	Encoder	1
56	409656-L6-5V	Encoder	1
57	290-00107	Encoder	1
58	409656-L6-5V	Encoder	1
59	290-00107	Encoder	1
60	409656-L6-5V	Encoder	1
61	290-00107	Encoder	1
62	409656-L6-5V	Encoder	1
63	290-00107	Encoder	1
64	409656-L6-5V	Encoder	1
65	290-00107	Encoder	1
66	409656-L6-5V	Encoder	1
67	290-00107	Encoder	1
68	409656-L6-5V	Encoder	1
69	290-00107	Encoder	1
70	409656-L6-5V	Encoder	1
71	290-00107	Encoder	1
72	409656-L6-5V	Encoder	1
73	290-00107	Encoder	1
74	409656-L6-5V	Encoder	1
75	290-00107	Encoder	1
76	409656-L6-5V	Encoder	1
77	290-00107	Encoder	1
78	409656-L6-5V	Encoder	1
79	290-00107	Encoder	1
80	409656-L6-5V	Encoder	1
81	290-00107	Encoder	1
82	409656-L6-5V	Encoder	1
83	290-00107	Encoder	1
84	409656-L6-5V	Encoder	1
85	290-00107	Encoder	1
86	409656-L6-5V	Encoder	1
87	290-00107	Encoder	1
88	409656-L6-5V	Encoder	1
89	290-00107	Encoder	1
90	409656-L6-5V	Encoder	1
91	290-00107	Encoder	1
92	409656-L6-5V	Encoder	1
93	290-00107	Encoder	1
94	409656-L6-5V	Encoder	1
95	290-00107	Encoder	1
96	409656-L6-5V	Encoder	1
97	290-00107	Encoder	1
98	409656-L6-5V	Encoder	1
99	290-00107	Encoder	1
100	409656-L6-5V	Encoder	1

REV.	DESCRIPTION	DATE	APP.
PRELIMINARY		6/14/00	MVS

NO.	PART NUMBER	DESCRIPTION	QTY.
1	290-00107	Encoder	1
2	409656-L6-5V	Encoder	1
3	290-00107	Encoder	1
4	409656-L6-5V	Encoder	1
5	290-00107	Encoder	1
6	409656-L6-5V	Encoder	1
7	290-00107	Encoder	1
8	409656-L6-5V	Encoder	1
9	290-00107	Encoder	1
10	409656-L6-5V	Encoder	1
11	290-00107	Encoder	1
12	409656-L6-5V	Encoder	1
13	290-00107	Encoder	1
14	409656-L6-5V	Encoder	1
15	290-00107	Encoder	1
16	409656-L6-5V	Encoder	1
17	290-00107	Encoder	1
18	409656-L6-5V	Encoder	1
19	290-00107	Encoder	1
20	409656-L6-5V	Encoder	1
21	290-00107	Encoder	1
22	409656-L6-5V	Encoder	1
23	290-00107	Encoder	1
24	409656-L6-5V	Encoder	1
25	290-00107	Encoder	1
26	409656-L6-5V	Encoder	1
27	290-00107	Encoder	1
28	409656-L6-5V	Encoder	1
29	290-00107	Encoder	1
30	409656-L6-5V	Encoder	1
31	290-00107	Encoder	1
32	409656-L6-5V	Encoder	1
33	290-00107	Encoder	1
34	409656-L6-5V	Encoder	1
35	290-00107	Encoder	1
36	409656-L6-5V	Encoder	1
37	290-00107	Encoder	1
38	409656-L6-5V	Encoder	1
39	290-00107	Encoder	1
40	409656-L6-5V	Encoder	1
41	290-00107	Encoder	1
42	409656-L6-5V	Encoder	1
43	290-00107	Encoder	1
44	409656-L6-5V	Encoder	1
45	290-00107	Encoder	1
46	409656-L6-5V	Encoder	1
47	290-00107	Encoder	1
48	409656-L6-5V	Encoder	1
49	290-00107	Encoder	1
50	409656-L6-5V	Encoder	1
51	290-00107	Encoder	1
52	409656-L6-5V	Encoder	1
53	290-00107	Encoder	1
54	409656-L6-5V	Encoder	1
55	290-00107	Encoder	1
56	409656-L6-5V	Encoder	1
57	290-00107	Encoder	1
58	409656-L6-5V	Encoder	1
59	290-00107	Encoder	1
60	409656-L6-5V	Encoder	1
61	290-00107	Encoder	1
62	409656-L6-5V	Encoder	1
63	290-00107	Encoder	1
64	409656-L6-5V	Encoder	1
65	290-00107	Encoder	1
66	409656-L6-5V	Encoder	1
67	290-00107	Encoder	1
68	409656-L6-5V	Encoder	1
69	290-00107	Encoder	1
70	409656-L6-5V	Encoder	1
71	290-00107	Encoder	1
72	409656-L6-5V	Encoder	1
73	290-00107	Encoder	1
74	409656-L6-5V	Encoder	1
75	290-00107	Encoder	1
76	409656-L6-5V	Encoder	1
77	290-00107	Encoder	1
78	409656-L6-5V	Encoder	1
79	290-00107	Encoder	1
80	409656-L6-5V	Encoder	1
81	290-00107	Encoder	1
82	409656-L6-5V	Encoder	1
83	290-00107	Encoder	1
84	409656-L6-5V	Encoder	1
85	290-00107	Encoder	1
86	409656-L6-5V	Encoder	1
87	290-00107	Encoder	1
88	409656-L6-5V	Encoder	1
89	290-00107	Encoder	1
90	409656-L6-5V	Encoder	1
91	290-00107	Encoder	1
92	409656-L6-5V	Encoder	1
93	290-00107	Encoder	1
94	409656-L6-5V	Encoder	1
95	290-00107	Encoder	1
96	409656-L6-5V	Encoder	1
97	290-00107	Encoder	1
98	409656-L6-5V		