

MOTOR DATA @ 110 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP RATED	0.67
	KW RATED	0.47
MAX. OPERATING SPEED	N. MAX RPM	1500
SPEED @ RATED TORQUE	N RATED RPM	1100
* CONTINUOUS RATED TORQUE @ 1100 RPM	IN-LBS[Nm]	36.0[4.1]
* CONTINUOUS STALL TORQUE	IN-LBS[Nm]	39.0[4.4]
CONTINUOUS LINE CURRENT	AMPS	6.0
PEAK TORQUE	IN-LBS[Nm]	117.0[13.2]
PEAK CURRENT	AMPS	18.0
MAX. THEORETICAL ACCEL.	RAD/SEC ²	7,697
TORQUE SENSITIVITY	Kt [IN-LBS/A]/[Nm/AMP]	6.6[0.75]
BACK EMF (LINE TO LINE)	Vrms/Krpm	59.0
D.C. RESISTANCE (P-P)	OHMS	2.2
INDUCTANCE (P-P)	MILLIHENRIES	8.6
ROTOR INERTIA W/ BRAKE	Jm [IN-LBS-SEC ²]/[Kg-M ²]	.00152[.000171]
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 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: 14.6 LBS. [6.6 kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)

FAILURE BRAKE:

MIN HOLDING TORQUE: 90 FT-LBS
 INPUT VOLTAGE: 24 VOLTS
 ENCODER: (290-00064)
 OIH48-1000P6-L6-5V

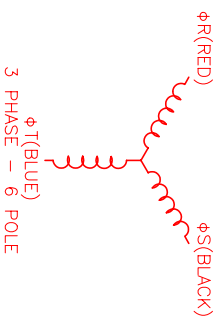
CONNECTION CHART

ENCODER/THERM CONNECTOR:
 P102E-14-18P(027)
 (270-00024)

MOTOR/BRAKE CONNECTOR:
 P102E-16-8P(027)
 (270-00032)

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



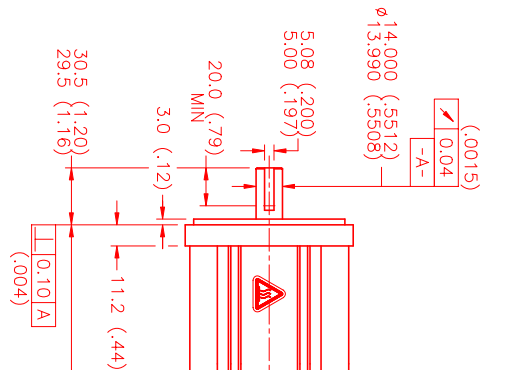
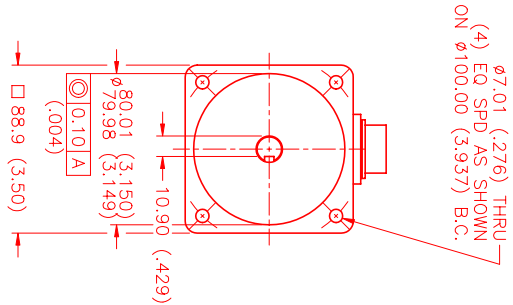
MOTOR & HALL POSITION CHART

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

VIEW ON THE OSCILLOSCOPE

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

WAVE REPRESENTING HALL SENSOR



P102E-16-8P(027)
 MATING CONNECTOR:
 P106E-16-8S(476)

P102E-14-18P(027)
 MATING CONNECTOR:
 P106E-14-18S(476)

64 (2.5) MAX

NO.	PART NUMBER	DESCRIPTION	QTY.
1	MOTOR	MOTOR	1
2	ENCODER	ENCODER	1
3	FAILURE BRAKE	FAILURE BRAKE	1
4	CONNECTOR	CONNECTOR	1
5	CONNECTOR	CONNECTOR	1
6	WAVEFORM	WAVEFORM	1
7	OSCILLOSCOPE	OSCILLOSCOPE	1
8	WAVEFORM	WAVEFORM	1
9	ENCODER	ENCODER	1
10	FAILURE BRAKE	FAILURE BRAKE	1
11	CONNECTOR	CONNECTOR	1
12	CONNECTOR	CONNECTOR	1
13	WAVEFORM	WAVEFORM	1
14	OSCILLOSCOPE	OSCILLOSCOPE	1
15	WAVEFORM	WAVEFORM	1
16	ENCODER	ENCODER	1
17	FAILURE BRAKE	FAILURE BRAKE	1
18	CONNECTOR	CONNECTOR	1
19	CONNECTOR	CONNECTOR	1
20	WAVEFORM	WAVEFORM	1
21	OSCILLOSCOPE	OSCILLOSCOPE	1
22	WAVEFORM	WAVEFORM	1
23	ENCODER	ENCODER	1
24	FAILURE BRAKE	FAILURE BRAKE	1
25	CONNECTOR	CONNECTOR	1
26	CONNECTOR	CONNECTOR	1
27	WAVEFORM	WAVEFORM	1
28	OSCILLOSCOPE	OSCILLOSCOPE	1
29	WAVEFORM	WAVEFORM	1
30	ENCODER	ENCODER	1
31	FAILURE BRAKE	FAILURE BRAKE	1
32	CONNECTOR	CONNECTOR	1
33	CONNECTOR	CONNECTOR	1
34	WAVEFORM	WAVEFORM	1
35	OSCILLOSCOPE	OSCILLOSCOPE	1
36	WAVEFORM	WAVEFORM	1
37	ENCODER	ENCODER	1
38	FAILURE BRAKE	FAILURE BRAKE	1
39	CONNECTOR	CONNECTOR	1
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41	WAVEFORM	WAVEFORM	1
42	OSCILLOSCOPE	OSCILLOSCOPE	1
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44	ENCODER	ENCODER	1
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