

# MOTOR DATA @ 48 VDC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	.009
KILOWATTS	KW	.007
MAX. OPERATING SPEED	N. MAX RPM	1200
SPEED @ RATED TORQUE	N RATED RPM	1000
* CONTINUOUS RATED TORQUE @ 100 RPM	IN-LBS/[Nm]	5.8[0.66]
* CONTINUOUS STALL TORQUE	IN-LBS/[Nm]	6.0[0.68]
CONTINUOUS LINE CURRENT	AMPS	2.0
PEAK TORQUE	IN-LBS/[Nm]	18.0[2.03]
PEAK CURRENT	AMPS	6.0
MAX. THEORETICAL ACCEL.	RAD/SEC <sup>2</sup>	120,000
TORQUE SENSITIVITY	Kt [IN-LBS/AMP/[Nm/AMP]	2.9[0.329]
BACK EMF (LINE TO LINE)	Vrms/Krpm	25.9
D.C. RESISTANCE (P-P)	OHMS	11.0
INDUCTANCE (P-P)	MILLIHENRIES	17.0
ROTOR INERTIA	Jm [IN-LBS-SEC <sup>2</sup> ] [Kg-M <sup>2</sup> ]	0.00015[0.000017]
STATIC FRICTION	Tf [IN-LBS] [Nm]	0.6[0.07]

\*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 85°C ON MOTOR. MOTOR MOUNTED ON A 1/2" X 1/2" 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:

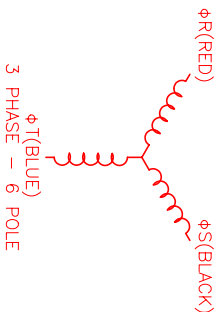
- AXIAL LOAD: 20 LBS MAX @ 1" FROM FACE
- RADIAL LOAD: 35 LBS MAX @ 1" FROM FACE
- MOTOR SEALED TO IP65.
- MOTOR WEIGHT: 3.2 LBS. [ 1.5 kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)
- THIS MOTOR'S OUTPUT KEY IS A PRESS FIT.

ENCODER: (290-00155)  
OIH35-1000P6-L6-5V

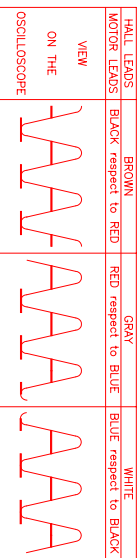
### CONNECTION CHART MOTOR/ENCODER/THERM CONNECTOR: PT02E-16-23P(027) (270-00219)

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

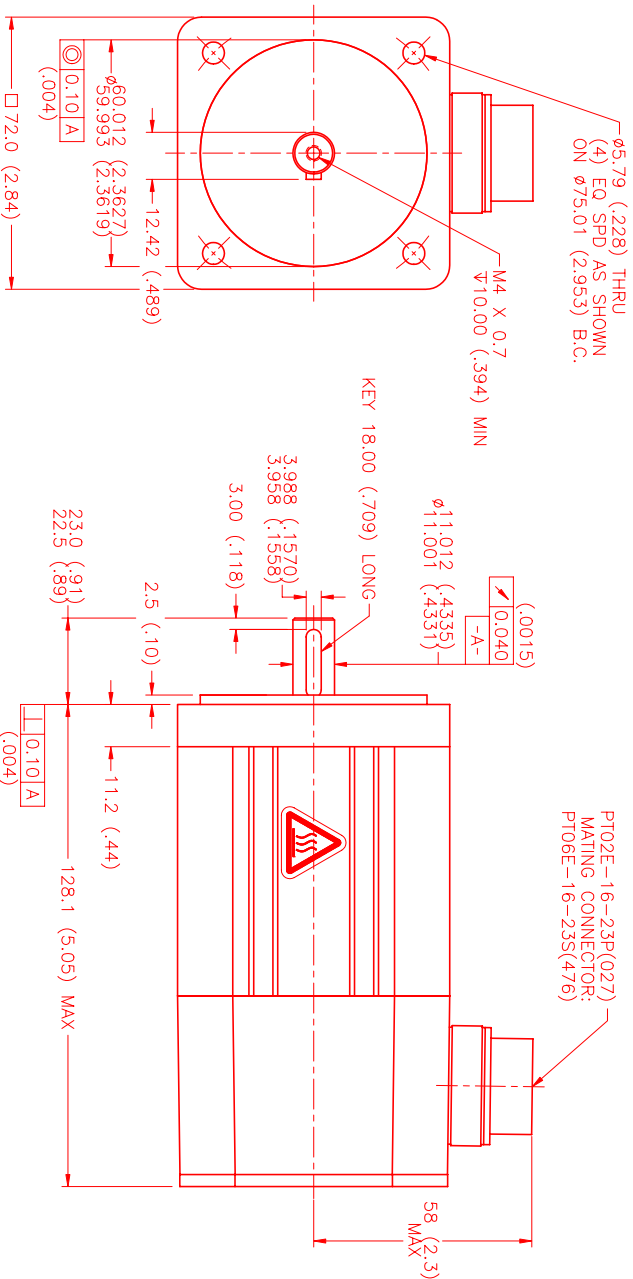
MOTOR WIRE LEADS	PIN	WIRE FUNCTION	WIRE COLOR
A	4R	RED	RED
B	4S	BLACK	BLACK
C	4T	BLUE	BLUE
D	PE GND	GRN/YEL	GRN/YEL



MOTOR & HALL POSITION CHART



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



NO.	PART NUMBER	DESCRIPTION	QTY.
1	UNLSE3500	UNLSE3500	
2	UNLSE3500	UNLSE3500	
3	UNLSE3500	UNLSE3500	
4	UNLSE3500	UNLSE3500	
5	UNLSE3500	UNLSE3500	
6	UNLSE3500	UNLSE3500	
7	UNLSE3500	UNLSE3500	
8	UNLSE3500	UNLSE3500	
9	UNLSE3500	UNLSE3500	
10	UNLSE3500	UNLSE3500	
11	UNLSE3500	UNLSE3500	
12	UNLSE3500	UNLSE3500	
13	UNLSE3500	UNLSE3500	
14	UNLSE3500	UNLSE3500	
15	UNLSE3500	UNLSE3500	
16	UNLSE3500	UNLSE3500	
17	UNLSE3500	UNLSE3500	
18	UNLSE3500	UNLSE3500	
19	UNLSE3500	UNLSE3500	
20	UNLSE3500	UNLSE3500	
21	UNLSE3500	UNLSE3500	
22	UNLSE3500	UNLSE3500	
23	UNLSE3500	UNLSE3500	
24	UNLSE3500	UNLSE3500	
25	UNLSE3500	UNLSE3500	
26	UNLSE3500	UNLSE3500	
27	UNLSE3500	UNLSE3500	
28	UNLSE3500	UNLSE3500	
29	UNLSE3500	UNLSE3500	
30	UNLSE3500	UNLSE3500	
31	UNLSE3500	UNLSE3500	
32	UNLSE3500	UNLSE3500	
33	UNLSE3500	UNLSE3500	
34	UNLSE3500	UNLSE3500	
35	UNLSE3500	UNLSE3500	
36	UNLSE3500	UNLSE3500	
37	UNLSE3500	UNLSE3500	
38	UNLSE3500	UNLSE3500	
39	UNLSE3500	UNLSE3500	
40	UNLSE3500	UNLSE3500	
41	UNLSE3500	UNLSE3500	
42	UNLSE3500	UNLSE3500	
43	UNLSE3500	UNLSE3500	
44	UNLSE3500	UNLSE3500	
45	UNLSE3500	UNLSE3500	
46	UNLSE3500	UNLSE3500	
47	UNLSE3500	UNLSE3500	
48	UNLSE3500	UNLSE3500	
49	UNLSE3500	UNLSE3500	
50	UNLSE3500	UNLSE3500	
51	UNLSE3500	UNLSE3500	
52	UNLSE3500	UNLSE3500	
53	UNLSE3500	UNLSE3500	
54	UNLSE3500	UNLSE3500	
55	UNLSE3500	UNLSE3500	
56	UNLSE3500	UNLSE3500	
57	UNLSE3500	UNLSE3500	
58	UNLSE3500	UNLSE3500	
59	UNLSE3500	UNLSE3500	
60	UNLSE3500	UNLSE3500	
61	UNLSE3500	UNLSE3500	
62	UNLSE3500	UNLSE3500	
63	UNLSE3500	UNLSE3500	
64	UNLSE3500	UNLSE3500	
65	UNLSE3500	UNLSE3500	
66	UNLSE3500	UNLSE3500	
67	UNLSE3500	UNLSE3500	
68	UNLSE3500	UNLSE3500	
69	UNLSE3500	UNLSE3500	
70	UNLSE3500	UNLSE3500	
71	UNLSE3500	UNLSE3500	
72	UNLSE3500	UNLSE3500	
73	UNLSE3500	UNLSE3500	
74	UNLSE3500	UNLSE3500	
75	UNLSE3500	UNLSE3500	
76	UNLSE3500	UNLSE3500	
77	UNLSE3500	UNLSE3500	
78	UNLSE3500	UNLSE3500	
79	UNLSE3500	UNLSE3500	
80	UNLSE3500	UNLSE3500	
81	UNLSE3500	UNLSE3500	
82	UNLSE3500	UNLSE3500	
83	UNLSE3500	UNLSE3500	
84	UNLSE3500	UNLSE3500	
85	UNLSE3500	UNLSE3500	
86	UNLSE3500	UNLSE3500	
87	UNLSE3500	UNLSE3500	
88	UNLSE3500	UNLSE3500	
89	UNLSE3500	UNLSE3500	
90	UNLSE3500	UNLSE3500	
91	UNLSE3500	UNLSE3500	
92	UNLSE3500	UNLSE3500	
93	UNLSE3500	UNLSE3500	
94	UNLSE3500	UNLSE3500	
95	UNLSE3500	UNLSE3500	
96	UNLSE3500	UNLSE3500	
97	UNLSE3500	UNLSE3500	
98	UNLSE3500	UNLSE3500	
99	UNLSE3500	UNLSE3500	
100	UNLSE3500	UNLSE3500	