

MOTOR DATA @ 230 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP RATED	6.0
KILOWATTS	KW RATED	4.5
MAX. OPERATING SPEED	N MAX RPM	1750
SPEED @ RATED TORQUE	N RATED RPM	1500
* CONTINUOUS RATED TORQUE @ 1500 RPM	IN-LBS [Nm]	252.0 [28.2]
* CONTINUOUS STALL TORQUE	IN-LBS [Nm]	280.0 [31.5]
CONTINUOUS LINE CURRENT	AMPS	21.1
PEAK TORQUE	IN-LBS [Nm]	840.0 [94.4]
PEAK CURRENT	AMPS	63.2
MAX. THEORETICAL ACCEL.	RAD/SEC ²	30,769
TORQUE SENSITIVITY	Kt [IN-LBS/Amp] [Nm/AMP]	12.9 [1.5]
BACK EMF (LINE TO LINE)	Vrms/Krpm	115.0
D.C. RESISTANCE (P-P)	OHMS	.45
INDUCTANCE (P-P)	MILLIHENRIES	4.3
ROTOR INERTIA	Jm [IN-LBS-SEC ²] [Kg-M ²]	.0273 [0.0308]
STATIC FRICTION	Tf [IN-LBS] [Nm]	3.6 [.41]

*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 12" X 12" 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: 50 LBS MAX
- RADIAL LOAD: 150 LBS MAX @ 1" FROM FACE
- MOTOR SEALED TO IP65.
- MOTOR WEIGHT: 65 LBS. [29.5 Kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)

ENCODER: (290-00052)

OIH48-2000P6-L6-SV

CONNECTION CHART

MOTOR CONNECTOR:
SG3102E-22-22P(027)
(270-00017)

PIN	WIRE FUNCTION	WIRE COLOR
A	ΦR	RED
B	ΦS	BLACK
C	ΦT	BLUE
D	PE_GND	GRN/YEL

ENCODER/THERM CONNECTOR:

PT02E-14-18P(027)
(270-00024)

PIN	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/GABLE	SHLD
A	THERM	BLACK
L	THERM	BLACK
J	GND	GRN/YEL

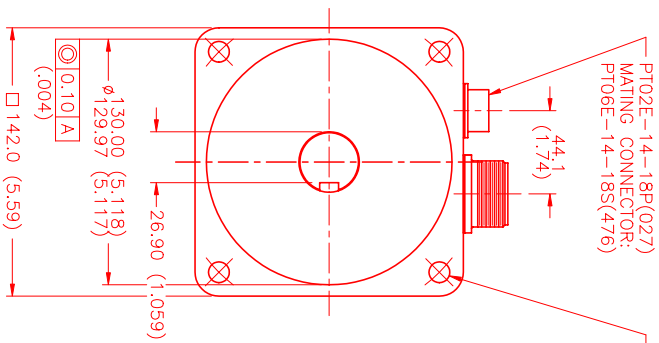
MOTOR & HALL POSITION CHART

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

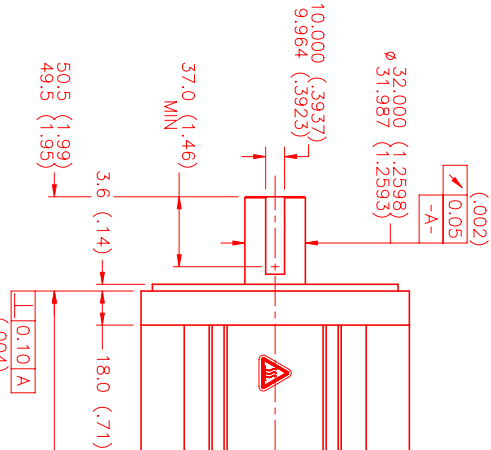
*MOTOR ROTATION CCW (COUNTER CLOCKWISE)
(LOOKING AT THE FACE OF THE MOTOR)



WAVE REPRESENTING HALL SENSOR

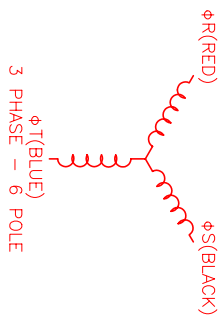


PT02E-14-18P(027)
MATING CONNECTOR:
PT06E-14-18S(476)



SG3102E-22-22P(027)
MATING CONNECTOR:
SG3106E-22-22S(476)

95 (3.7)
MAX



NO.	PART NUMBER	DESCRIPTION	QTY.
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