

MOTOR DATA @ 110 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	0.15
KILOWATTS	KW RATED	0.11
MAX. OPERATING SPEED	N. MAX RPM	3000
SPEED @ RATED TORQUE	N RATED RPM	2400
* CONTINUOUS RATED TORQUE @ 2400 RPM	IN-LBS[Nm]	4.01(.45)
* CONTINUOUS STALL TORQUE	IN-LBS[Nm]	5.0(.56)
CONTINUOUS LINE CURRENT	AMPS	1.6
PEAK TORQUE	IN-LBS[Nm]	12.0(1.36)
PEAK CURRENT	AMPS	3.9
MAX. THEORETICAL ACCEL.	RAD/SEC ²	123,711
TORQUE SENSITIVITY	Kt IN-LBS/AMP[Nm/AMP]	3.2(.36)
BACK EMF (LINE TO LINE)	Vrms/Krpm	28.3
D.C. RESISTANCE (P-P)	OHMS	18.5
INDUCTANCE (P-P)	MILLIHENRIES	26.4
ROTOR INERTIA	Jm [IN-LBS-SEC ²] [Kg-M ²]	0.000097(0.0000109)
STATIC FRICTION	Tf [IN-LBS] [Nm]	0.5(0.06)

*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: 15 LBS MAX
- RADIAL LOAD: 20 LBS MAX @ 1" FROM FACE
- MOTOR SEALED TO IP65.
- MOTOR WEIGHT: 2.6 LBS. [1.2 kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)

ENCODER: (290-00065)

OH35-1000P4-L6-5V

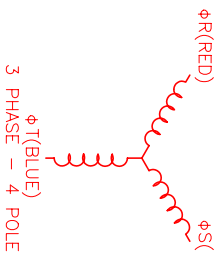
CONNECTION CHART MOTOR/ENCODER/THERM CONNECTOR: PT02E-16-23P(027) (270-00219)

ENC/THERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR
PT02E-16-23P(027) <td>GROUND</td> <td>BLACK</td>	GROUND	BLACK
	+5VDC	RED
	CH A	BLUE
	CH A V	BLUE/BLK
	CH B	GREEN
	CH B V	GREEN/BLK
	CH Z	YELLOW
	CH Z V	YEL/BLK
	CH U	BROWN
	CH U V	BROWN/BLK
	CH V	GRAY
	CH V V	GRAY/BLK
	CH W	WHITE
	CH W V	WHITE/BLK
	GND/CABLE	SHIELD
	THERM	BLACK
	THERM	BLACK

MOTOR WIRE LEADS	WIRE FUNCTION	WIRE COLOR
A	ΦR	RED
B	ΦS	BLUE
C	ΦT	BLUE
D	PE GND	GRN/YEL

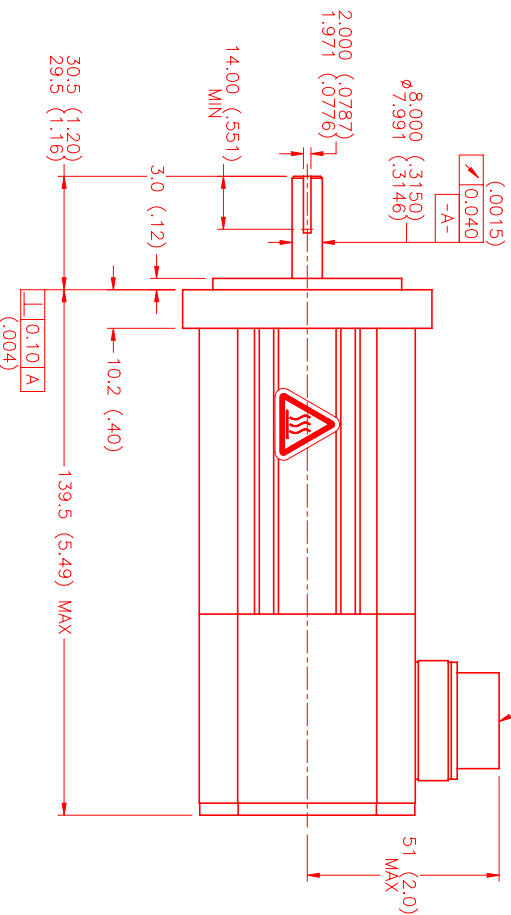
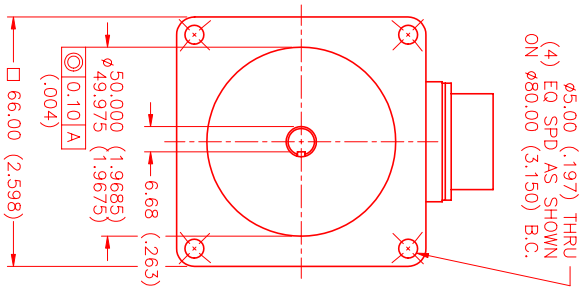
HALL LEADS	BLACK	BROWN	GRAY	BLUE	WHITE
MOTOR LEADS	BLACK	respect to RED	RED	respect to BLUE	BLUE
VIEW ON THE OSCILLOSCOPE					

MOTOR & HALL POSITION CHART



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

WAVE REPRESENTING STATOR OUTPUT
 WAVE REPRESENTING HALL SENSOR



NO.	PART NUMBER	DESCRIPTION	QTY.
1	290-00065	ENCODER	1
2	OH35-1000P4-L6-5V	ENCODER	1
3	PT02E-16-23P(027)	CONNECTOR	1
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