

MOTOR DATA @ 460 VAC (SINE)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	0.83
KILOWATTS	KW	0.62
MAX. OPERATING SPEED	N. MAX RPM	5000
SPEED @ RATED TORQUE	N RATED RPM	4000
* CONTINUOUS RATED TORQUE @ 4000 RPM	IN-LBS[Nm]	13.0[1.47]
* CONTINUOUS STALL TORQUE	IN-LBS[Nm]	16.0[1.81]
CONTINUOUS LINE CURRENT	AMPS[RMS/φ]	1.3
PEAK TORQUE	IN-LBS[Nm]	58.8[6.64]
PEAK CURRENT	AMPS[RMS/φ]	4.9
MAX. THEORETICAL ACCEL.	RAD/SEC ²	95.6[10]
TORQUE SENSITIVITY	Kt [N-LBS/AMP/RMS/φ][Nm/AMP/RMS/φ]	11.8[1.33]
BACK EMF (LINE TO LINE)	Vrms/Krpm	74.2
D.C. RESISTANCE (P-P)	OHMS	15.3
INDUCTANCE (P-P)	MILLIHENRIES	39.7
ROTOR INERTIA	Jm [IN-LBS-SEC ²][Kg-M ²]	0.000615[0.0000693]
STATIC FRICTION	Tf [IN-LBS][Nm]	0.4[0.05]

*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 10" X 10" X 1/4" ALUMINUM HEATSIK. 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: 6.8 LBS. [3.1 kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)

ENCODER: (290-00052)

OIH48-2000P6-L6-SV

CONNECTION CHART

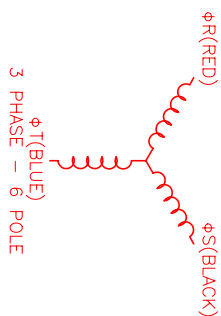
ENCODER/THERM CONNECTOR:
PT02E-14-18P(027)
(270-00024)

ENC/THERM	WIRE	WIRE LEADS
PIN	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 V	BRN/BLK
F	CH V	GRAY
S	CH W	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

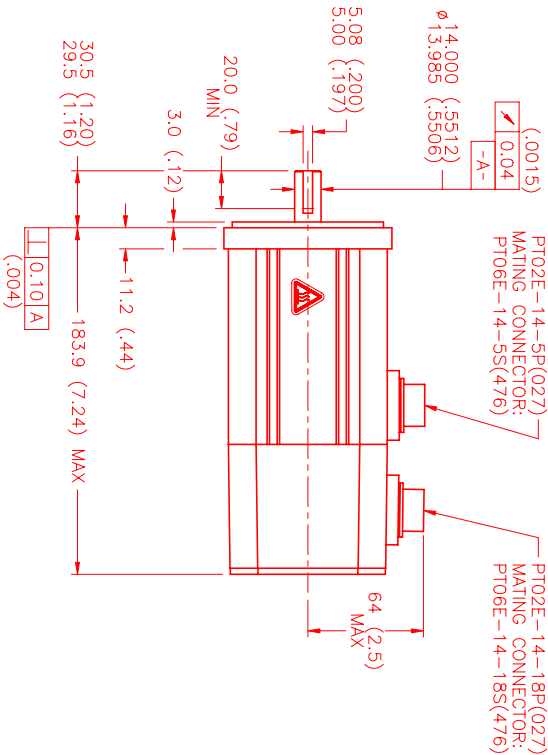
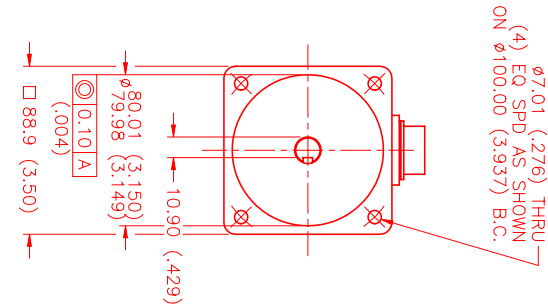
MOTOR CONNECTOR:

PT02E-14-5P(027)
(270-00026)

MOTOR	WIRE	WIRE LEADS
PIN	FUNCTION	WIRE COLOR
A	φR	RED
B	φS	BLACK
C	φT	BLUE
D	PE GND	GRN/YEL
E	-	-



MOTOR ROTATION CCW (COUNTER CLOCKWISE)
(LOOKING AT THE FACE OF THE MOTOR)
WAVE REPRESENTING STATOR OUTPUT
WAVE REPRESENTING HALL SENSOR



NO.	PART NUMBER	DESCRIPTION	QTY.
1	MPM891CSJ7JN1N	460VAC SINE MOTOR	1

REV.	DESCRIPTION	DATE	APP.
PRELIMINARY		6/25/02	LIN

NO.	DATE	BY	CHKD.
1	6/25/02	LIN	LIN

SCALE	1/2:1
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