

MOTOR DATA @ 460 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	6.0
KILOWATTS	KW	4.5
MAX. OPERATING SPEED	N MAX	1750
SPEED @ RATED TORQUE	N RATED	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	10.6
PEAK TORQUE	IN-LBS [Nm]	840.0 [94.4]
PEAK CURRENT	AMPS	31.6
MAX. THEORETICAL ACCEL.	RAD/SEC ²	30,769
TORQUE SENSITIVITY	Kt [N-LBS/AMP] [Nm/AMP]	25.8 [2.9]
BACK EMF (LINE TO LINE)	Vrms/Krpm	230.0
D.C. RESISTANCE (P-P)	OHMS	1.7
INDUCTANCE (P-P)	MILLIHENRIES	16.9
ROTOR INERTIA	Jm [N-LBS-SEC ²] [Kg-M ²]	.0273 [0.0308]
STATIC FRICTION	Tf [N-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:

1. AXIAL LOAD: 50 LBS MAX
2. RADIAL LOAD: 150 LBS MAX @ 1" FROM FACE
3. MOTOR SEALED TO IP65.
4. MOTOR WEIGHT: 65 LBS. [29.5 Kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
7. MILLIMETERS (INCHES)

ENCODER: (290-00064)
OH48-1000P6-L6-5V

CONNECTION CHART

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

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

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

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

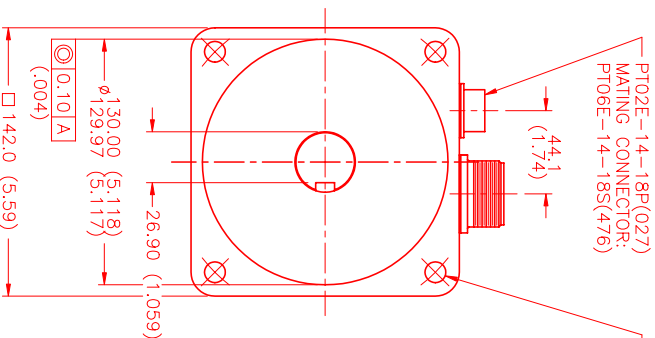
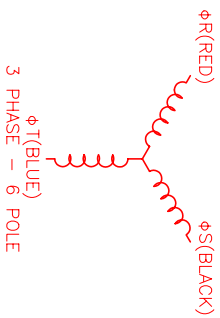
MOTOR & HALL POSITION CHART

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

VIEW ON THE OSCILLOSCOPE

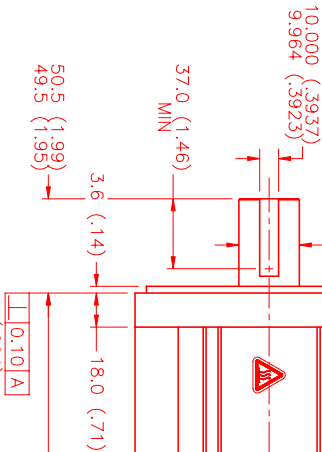


WAVE REPRESENTING HALL SENSOR



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

Ø11.00 (4.33) THRU
(4) EQ SPD AS SHOWN
ON Ø165.00 (6.496) B.C.



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

95 (3.7)
MAX

NO.	PART NUMBER	DESCRIPTION	QTY.
1	MPM1423DTUJIN1N	TRAP	1

REV.	DESCRIPTION	DATE	APP.
PRELIMINARY		8/9/99	MVS

NO.	PART NUMBER	DESCRIPTION	QTY.
1	MPM1423DTUJIN1N	TRAP	1

REV.	DESCRIPTION	DATE	APP.
PRELIMINARY		8/9/99	MVS

MTS Automation Division

DATE: 8/9/99

SCALE: 1/2=1