

MOTOR DATA @ 230 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP RATED	2.1
KILOWATTS	KW RATED	1.6
MAX. OPERATING SPEED	N MAX	4200
SPEED @ RATED TORQUE	RPM	3000
* CONTINUOUS RATED TORQUE @ 3000 RPM	IN-LBS [Nm]	45.0 [5.1]
* CONTINUOUS STALL TORQUE	IN-LBS [Nm]	54.0 [6.1]
CONTINUOUS LINE CURRENT	AMPS	8.7
PEAK TORQUE	IN-LBS [Nm]	189.1 [21.3]
PEAK CURRENT	AMPS	30.5
MAX. THEORETICAL ACCEL.	RAD/SEC ²	48,487
TORQUE SENSITIVITY	Kt IN-LBS/AMP [Nm/AMP]	6.2 [.71]
BACK EMF (LINE TO LINE)	Vrms/Krpm	55.0
D.C. RESISTANCE (P-P)	OHMS	.82
INDUCTANCE (P-P)	MILLIHENRIES	6.1
ROTOR INERTIA W/BRAKE	Jm [IN-LBS-SEC ²] Kg-M ²	.00391 [0.0044]
STATIC FRICTION	Tf [IN-LBS] [Nm]	1.0 [.11]

*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: 100 LBS MAX @ 1" FROM FACE
3. MOTOR SEALED TO IP65.
4. MOTOR WEIGHT: 23.1 LBS. [10.5 kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
7. MILLIMETERS (INCHES)

ENCODER: (290-00052)

OH48-2000P6-L6-5V
 FAILSAFE BRAKE:
 MIN HOLDING TORQUE: 240 IN-LBS
 INPUT VOLTAGE: 24 VOLTS

CONNECTION CHART

MOTOR/BRAKE CONNECTOR:
 PT02E-16-8P(027)
 (270-00032)

PIN	WIRE FUNCTION	WIRE COLOR
A	ΦR	RED
B	ΦS	BLACK
C	ΦT	BLUE
D	PE SHLD	GRN/YEL
E	BRK SHLD	-
F	BRK (+)	DIODE
G	BRK (-)	1N4007
H	-	-

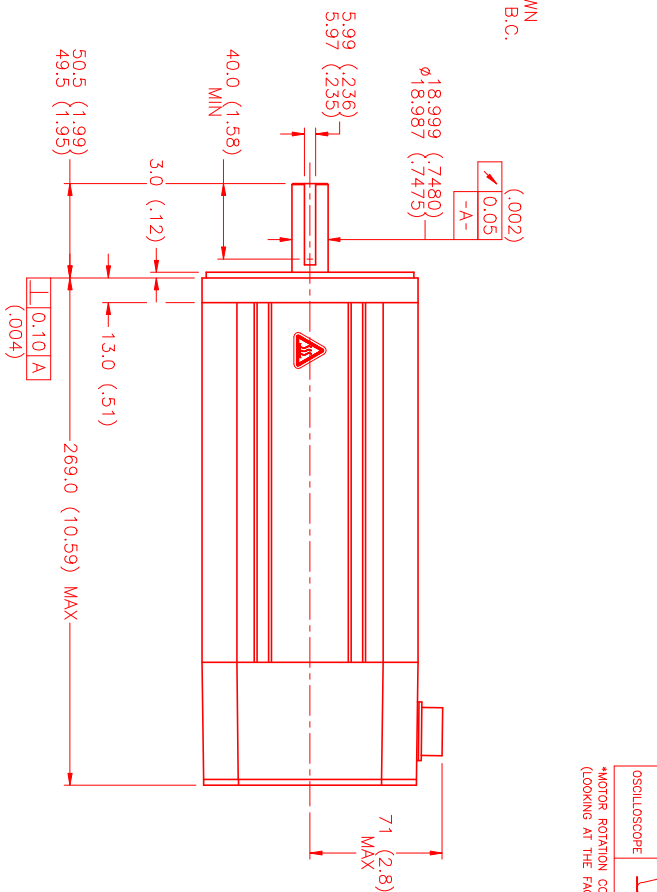
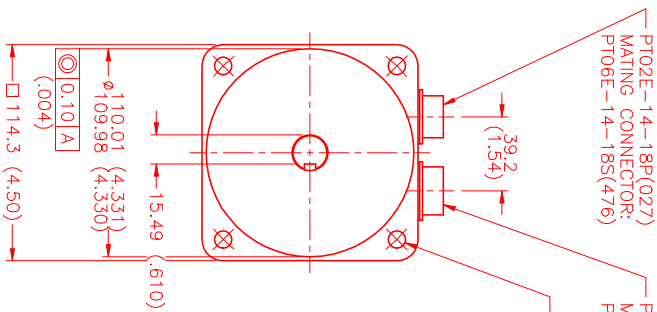
ENCODER/THERM CONNECTOR:

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

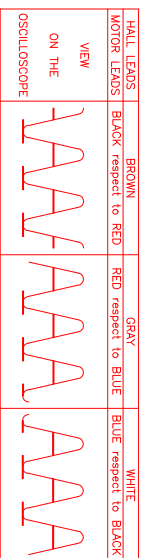
PIN	WIRE FUNCTION	WIRE COLOR
T	GROUND	BLACK
K	+5VDC	RED
B	CH A	BLUE
C	CH A	BLUE/BLK
N	CH B	GREEN
P	CH B	GRN/BLK
M	CH Z	YELLOW
U	CH Z	YEL/BLK
E	CH U	BROWN
R	CH U	BRN/BLK
F	CH V	GRAY
S	CH V	GRAY/BLK
G	CH W	WHITE
H	CH W	WHT/BLK
D	GND/CABLE	SHLD
A	THERM	BLACK
L	THERM	BLACK
J	GND	GRN/YEL

DATE: 7/13/99 NUMBER: MPM1141ATG7JN1R

REV.	DESCRIPTION	DATE	APPD.
PRELIMINARY		7/13/99	MVS



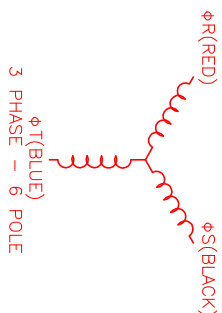
MOTOR & HALL POSITION CHART



*MOTOR ROTATION C/CW (COUNTER CLOCKWISE)
 (LOOKING AT THE FACE OF THE MOTOR)



WAVE REPRESENTING HALL SENSOR



NO.	PART NUMBER	DESCRIPTION	QTY.
UNLDS	MPM1141ATG7JN1R	MVS	1

DATE: 7/13/99	SCALE: 1/2:1
DESIGNER: MVS	APPROVED: MVS
CHECKED: MVS	
TITLE: MVS	
DATE: 7/13/99	
SCALE: 1/2:1	
DATE: 7/13/99	
SCALE: 1/2:1	

MVS
 MVS Systems Corporation
 Automation Division

RESISTANCE RANGE OF 100 OHMS TO 1000 OHMS. RESISTANCE IN THE RESISTANCE RANGE OF 100 OHMS TO 1000 OHMS. RESISTANCE IN THE RESISTANCE RANGE OF 100 OHMS TO 1000 OHMS. RESISTANCE IN THE RESISTANCE RANGE OF 100 OHMS TO 1000 OHMS.