MOTOR DATA @ 460 VAC (TRAP)

MOTOR PARAMETERS		UNITS	VALUE
HORSEPOWER	HP RATED	Hp	10.4
KILOWATTS	KW RATED	KW	7.8
MAX. OPERATING SPEED	N MAX	RPM	1500
SPEED @ RATED TORQUE	N RATED	RPM	1200
* CONTINUOUS RATED TORQUE @ 1200 RPM		IN-LBS[Nm]	550.0[61.8]
* CONTINUOUS STALL TORQUE		IN-LBS[Nm]	640.0[71.9]
CONTINUOUS LINE CURRENT		AMPS	18.0
PEAK TORQUE	Tpk	IN-LBS[Nm]	1920.0[215.0]
PEAK CURRENT		AMPS	54.0
MAX. THEORETICAL ACCEL.		RAD/SEC²	26,891
TORQUE SENSITIVITY	Kt	IN-LBS/AMP[Nm/AMP]	35.0[4.0]
BACK EMF (LINE TO LINE)	±10%	Vrms/Krpm	316.0
D.C. RESISTANCE (P-P)	±10%	OHMS	2.0
INDUCTANCE (P-P)	±10%	MILLIHENRIES	29.3
ROTOR INERTIA	Jm	IN-LBS-SEC²[Kg-M²]	.0714[.00807]
STATIC FRICTION	Tf	IN-LBS[Nm]	9.8[1.1]

*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 14" X 14" X 3/4" 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:

1. AXIAL LOAD: 100 LBS MAX
2. RADIAL LAOD: 250 LBS MAX @ 1" FROM FACE
3. MOTOR SEALED TO IP65.
4. MOTOR WEIGHT: 100 LBS [45.4 Kg]
5. MOTOR FINISH: BLACK EPOXY
6. MILLIMETERS (INCHES)

ENCODER: (290-00064)
OIH48-1000P6-L6-5V

CONNECTION CHART

MOTOR CONNECTOR:
SG3102E-32-17P(027)
(270-00066)

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

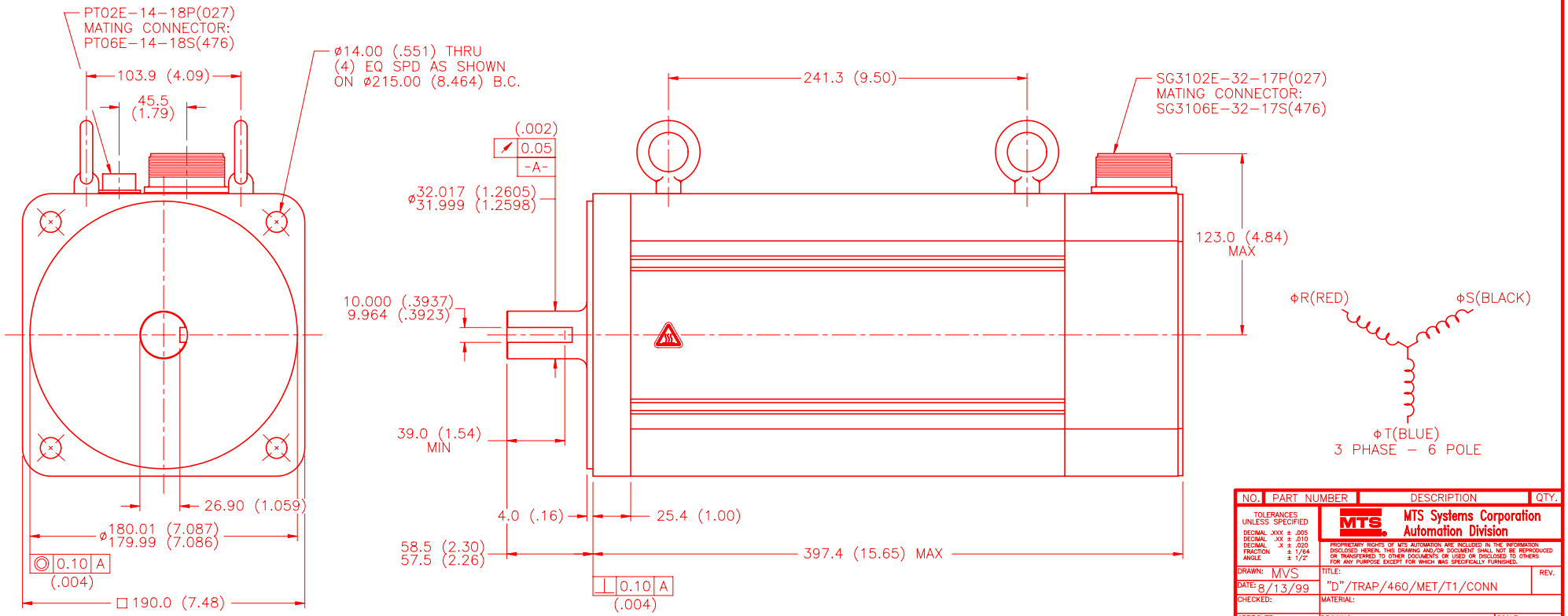
ENCODER/THERM CONNECTOR:
PT02E-14-18P(027)
(270-00024)

ENC/THERM WIRE LEADS		
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

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			

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



REVISIONS			
REV.	DESCRIPTION	DATE	APPD.
	PRELIMINARY	11/2/01	LIN

TITLE: "D"/TRAP/460/MET/T1/CONN
DRAWING NUMBER: MPM1902DTJ7JM1N

NO.	PART NUMBER	DESCRIPTION	QTY.

TOLERANCES UNLESS SPECIFIED
DECIMAL .XXX ± .005
DECIMAL .XX ± .010
DECIMAL .X ± .020
FRACTION ± 1/64
ANGLE ± 1/2°

MTS Systems Corporation
Automation Division

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DRAWN: MVS
DATE: 8/13/99
CHECKED:
APPROVED:
TITLE: "D"/TRAP/460/MET/T1/CONN
REV.
MATERIAL:
DRAWING NUMBER: MPM1902DTJ7JM1N
SCALE: 1/2:1