

VAC (TRAP)	UNITS	VALUE
HP		1.2
KW		.88
RPM		2100
RPM		1500
IN-LBSI [Nm]		50.0 [5.6]
IN-LBSI [Nm]		54.0 [6.1]
AMPS		2.2
IN-LBSI [Nm]		189.1 [21.3]
AMPS		7.6
RAD/SEC <sup>2</sup>		48,487
3S/AMP [Nm/AMP]		24.0 [2.84]
Vrms/Krpm		220.0
OHMS		13.3
WILLIHEINRIES		99.0
3S-SEC <sup>2</sup> [Kg-M <sup>2</sup> ]		.00391 [0.0044]
IN-LBSI [Nm]		1.0 [ .11 ]

TURE OF 100°C ON MOTOR. MOTOR HEATSINK. THERMOSTAT IN STATOR EXCEEDS 155°C. THIS ALLOWS FOR CONTINUOUS TORQUE RATING BEFORE

ENCODER: (290-00052)  
 OIH48-2000P6-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)

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

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

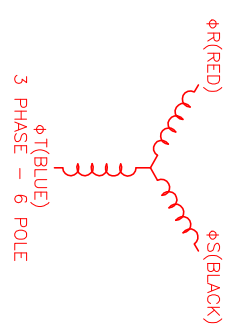
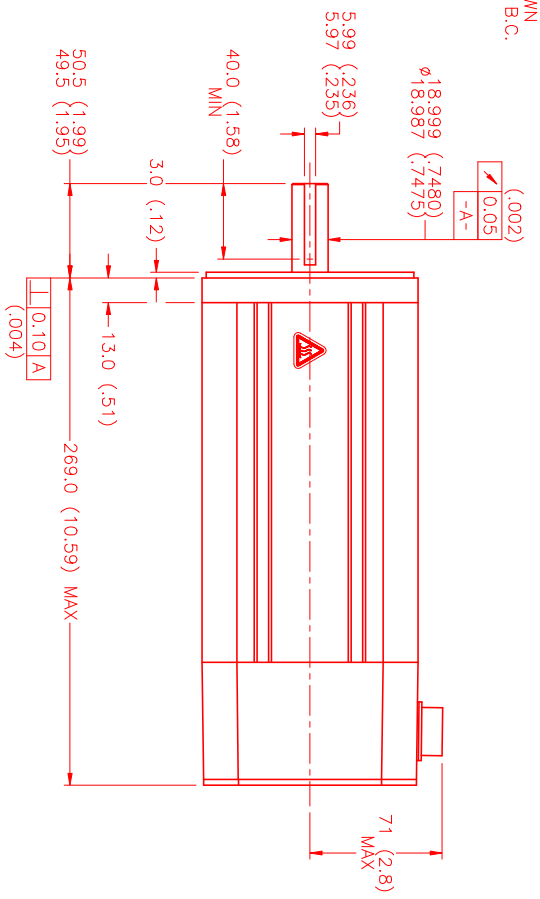
ENC/THERM	WIRE FUNCTION	WIRE COLOR
PIN T	GROUND	BLACK
PIN K	+5VDC	RED
PIN B	CH A	BLUE
PIN C	CH A	BLUE/BLK
PIN N	CH B	GREEN
PIN P	CH B	GRN/BLK
PIN M	CH Z	YELLOW
PIN U	CH Z	YEL/BLK
PIN E	CH U	BROWN
PIN R	CH U	BRN/BLK
PIN S	CH V	GRAY
PIN F	CH V	GRAY/BLK
PIN G	CH W	WHITE
PIN H	CH W	WHT/BLK
PIN D	GND/CABLE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

TITLE:		DRAWING NUMBER:	
"D"/TRAP/460/MEI/T2000/BRK		MPM141DTUJN1R	
REVISIONS			
REV.	DESCRIPTION	DATE	APPD.
PRELIMINARY		7/13/99	MVS

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)  
 WAVE REPRESENTING STATOR OUTPUT  
 WAVE REPRESENTING HALL SENSOR



3-8P(027)  
 ONNECTOR:  
 3-8S(476)

(.002)  
 0.05  
 A-

φ18.999 (.7490)  
 φ18.987 (.7475)

NO.	PART NUMBER	DESCRIPTION	QTY.
UNLESS OTHERWISE SPECIFIED			
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED IN THE DIMENSIONS DECIMALS: .005 & .010 FRACTIONS: 1/32, 1/16, 1/8, 1/4, 1/2 ANGLES: 1/2°			
DESIGNED BY:	MVS	DATE:	7/13/99
CHECKED BY:		TITLE:	"D"/TRAP/460/MEI/T2000/CONN/BRK
APPROVED BY:		DRAWING NUMBER:	MPM141DTUJN1R
			SCALE: 1/2:1

**MTS**  
 MTS Systems Corporation  
 Automation Division