TITLE: "A"/SINE/230/ENG/CONN	DRAWING NUMBER: MPM1141ASG6E1N

REVISIONS

REV.	DESCRIPTION	DATE	APPD.
	PRELIMINARY	4/12/02	MS

MOTOR DATA @ 230 VAC (SINE)

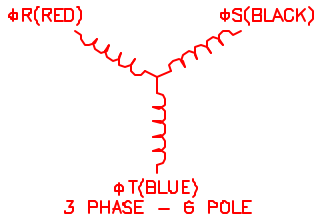
MOTOR PARAMETERS		UNITS	VALUE
HORSEPOWER	HP RATED	Hp	2.1
KILOWATTS	KW RATED	KW	1 6
MAX. OPERATING SPEED	N MAX	RPM	4200
SPEED @ RATED TORQUE	N RATED	RPM	3000
* CONTINUOUS RATED TORQUE @ 3000 RPM		IN-LBS[Nm]	45.0[5.1]
* CONTINUOUS STALL TORQUE		IN-LBS[Nm]	54.0[6.1]
CONTINUOUS LINE CURRENT		AMPS(RMS/ϕ)	6 2
PEAK TORQUE	Tpk	IN-LBS[Nm]	189.1[21.3]
PEAK CURRENT		AMPS(RMS/ϕ)	21 6
MAX. THEORETICAL ACCEL.		RAD/SEC²	54,029
TORQUE SENSITIVITY	Kt	IN-LBS/AMP(RMS/ϕ)[Nm/AMP(RMS/ϕ)]	8.77[0.99]
BACK EMF (LINE TO LINE)	±10%	Vrms/Krpm	55.0
D.C. RESISTANCE (P-P)	±10%	OHMS	.82
INDUCTANCE (P-P)	±10%	MILLIHENRIES	6 1
ROTOR INERTIA	Jm	IN-LBS-SEC²[Kg-M²]	0.0035[0.00039]
STATIC FRICTION	Tf	IN-LBS[Nm]	1 0[.11]

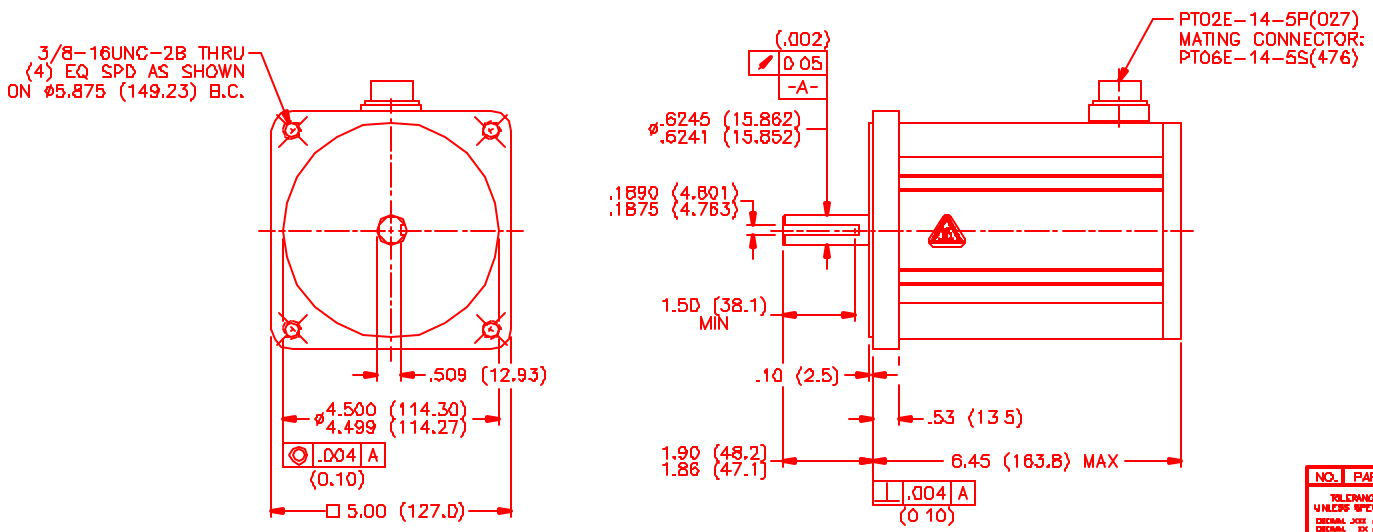
*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 12" X 12" X 1/2" ALUMINUM HEATSINK.

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: – LBS. [– Kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
7. INCHES (MILLIMETERS)

CONNECTION CHART
MOTOR CONNECTOR.
PT02E-14-5P(027)
(270-D0026)

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





NO.	PART NUMBER	DESCRIPTION	QTY.

TOLERANCES UNLESS SPECIFIED
DECIMAL .XXX ± .005
DECIMAL .XX ± .015
DECIMAL .X ± .030
FRACTION ± 1/64
ANGLE ± 1/2°

MTS Systems Corporation
Automation Division

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DRAWN MS	TITLE "A"/SINE/230/ENG/CONN	REV
DATE 4/12/02		
CHECKED	MATERIAL	
APPROVED	DRAWING NUMBER MPM1141ASG6E1N	SCALE 1/2:1