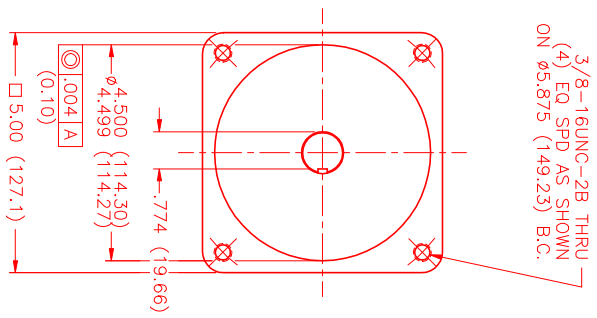


MOTOR DATA @ 230 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	1.8
KILOWATTS	KW RATED	1.33
MAX. OPERATING SPEED	N MAX	2100
SPEED @ RATED TORQUE	RPM	1500
* CONTINUOUS RATED TORQUE @ 1500 RPM	IN-LBS [Nm]	75.0 [8.4]
* CONTINUOUS STALL TORQUE	IN-LBS [Nm]	83.0 [9.3]
CONTINUOUS LINE CURRENT	AMPS	6.7
PEAK CURRENT	IN-LBS [Nm]	290.5 [32.7]
MAX. THEORETICAL ACCEL.	AMPS	23.4
TORQUE SENSITIVITY	RAD/SEC ²	41,500
BACK EMF (LINE TO LINE)	Kt [IN-LBS/AMP] [Nm/AMP]	12.4 [1.42]
D.C. RESISTANCE (P-P)	Vrms/Krpm	110.0
INDUCTANCE (P-P)	OHMS	1.8
ROTOR INERTIA W/BRAKE	MILLIHENRIES	12.6
STATIC FRICTION	Jm [IN-LBS-SEC ²] [Kg-M ²]	.0070 [0.00079]
	Tf [IN-LBS] [Nm]	1.4 [0.16]

*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:**
- AXIAL LOAD: 50 LBS MAX
 - RADIAL LOAD: 100 LBS MAX @ 1" FROM FACE
 - MOTOR SEALED TO IP65.
 - MOTOR WEIGHT: 33.7 LBS. [15.3 kg]
 - MOTOR FINISH: BLACK EPOXY
 - MOTOR OUTPUT SHAFT: STAINLESS STEEL
 - INCHES (MILLIMETERS)

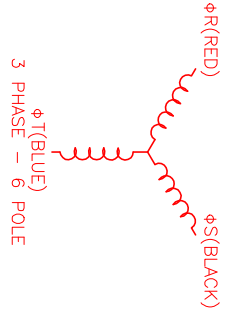
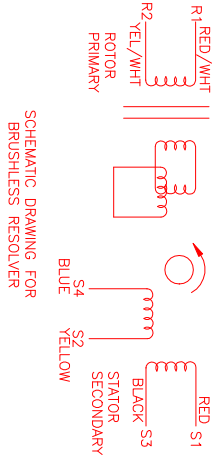
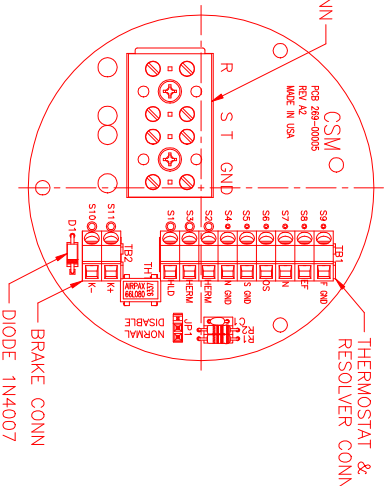
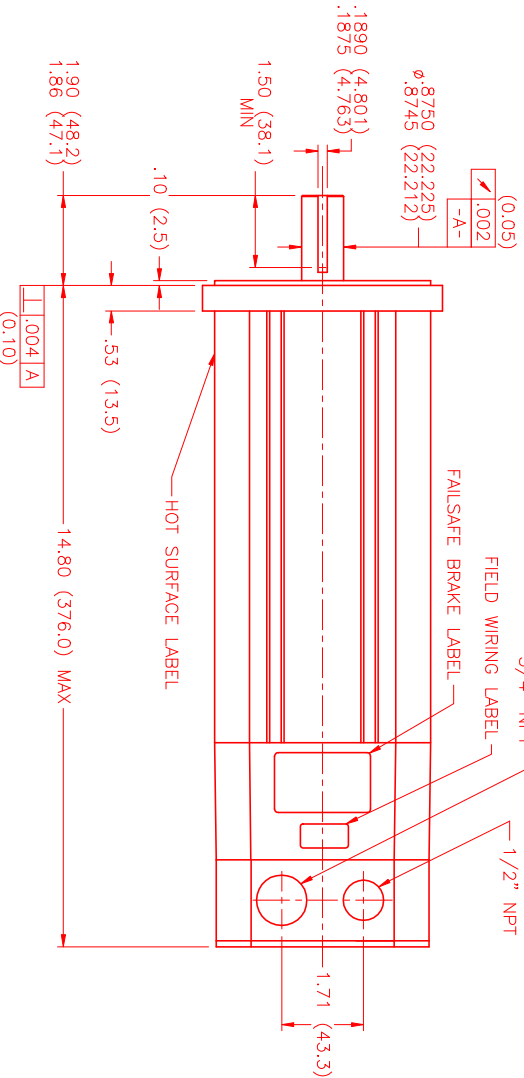


CONNECTION CHART

MOTOR WIRE LEADS	WIRE FUNCTION	WIRE COLOR
TERMINAL	FUNCTION	COLOR
-	ΦR	RED
-	ΦS	BLACK
-	ΦT	BLUE
-	PE GND	GRN/YEL

RES/THERM/BRAKE WIRE LEADS	WIRE FUNCTION	WIRE COLOR
TERMINAL	FUNCTION	COLOR
S11	BRK (+)	BLUE
S10	BRK (-)	BLUE
S9	REF GND	YEL/WHI
S8	REF	RED/WHI
S7	SIN	YELLOW
S6	COS	RED
S5	COS GND	BLACK
S4	SIN GND	BLUE
S3	THERM	BLACK
S2	THERM	BLACK
S1	RES SHLD	GRN/YEL

FAILSAFE BRAKE: (290-00006)
 MIN. HOLDING TORQUE: 240 IN-LBS
 INPUT VOLTAGE: 24 VOLTS



NO.	PART NUMBER	DESCRIPTION	QTY.
UNLESS SPECIFIED			
DRAWN: MVS			
CHECKED: MVS			
DATE: 7/8/99			
SCALE: 1/2:1			
APPROVED:			

REV.	DESCRIPTION	DATE	APPD.
PRELIMINARY		7/8/99	MVS

DATE: 8/23/06/ENG/RES/NPT/BRK DRAWING NUMBER: MPM1142BTG6G3R

MTS Systems Corporation
 Automation Division