

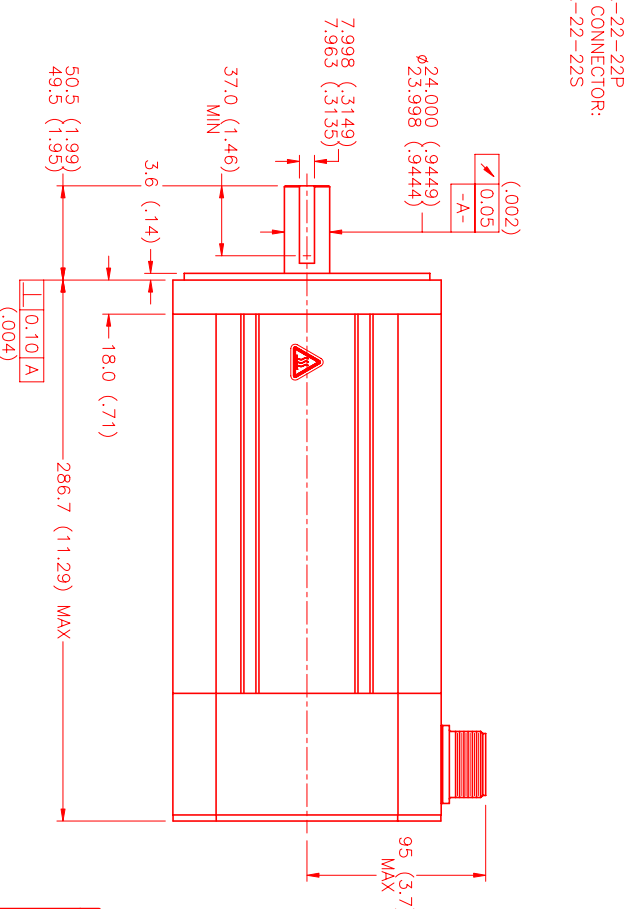
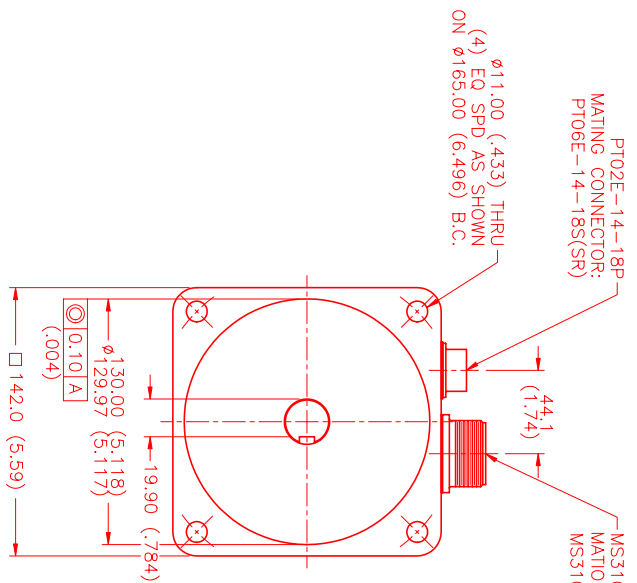
MOTOR DATA @ 230 VAC (SINE)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	2.9
KILOWATTS	KW RATED	2.1
MAX. OPERATING SPEED	N. MAX RPM	1750
SPEED @ RATED TORQUE	N RATED RPM	1500
* CONTINUOUS RATED TORQUE @ 1500 RPM	IN-LBS[Nm]	120.0 [13.5]
* CONTINUOUS STALL TORQUE	IN-LBS[Nm]	130.0 [14.7]
CONTINUOUS LINE CURRENT	AMPS[RMS/φ]	6.9
PEAK TORQUE	IN-LBS[Nm]	390.0 [43.9]
PEAK CURRENT	AMPS[RMS/φ]	20.9
MAX. THEORETICAL ACCEL.	RAD/SEC ²	36,792
TORQUE SENSITIVITY	Kt IN-LBS/AMP[RMS/φ]/Nm/AMP[RMS/φ]	18.2 [2.06]
BACK EMF (LINE TO LINE)	Vrms/Krpm	115.0
D.C. RESISTANCE (P-P)	OHMS	1.7
INDUCTANCE (P-P)	MILLIHENRIES	12.6
ROTOR INERTIA	Jm [IN-LBS-SEC ²] [Kg-M ²]	0.0106 [0.00119]
STATIC FRICTION	Tf [IN-LBS] [Nm]	2.4 [0.27]

*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: 150 LBS MAX @ 1" FROM FACE
- MOTOR SEALED TO IP65.
- MOTOR WEIGHT: 33 LBS. [15.0 kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)



CONNECTION CHART

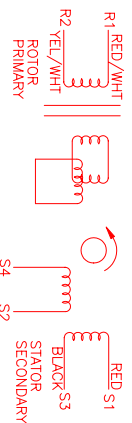
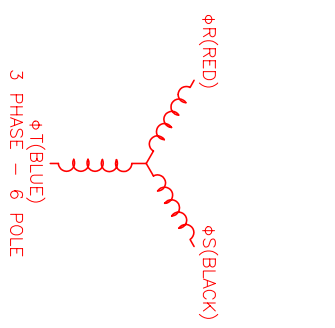
MOTOR CONNECTOR:
MS3102A-22-22P(027)
(270-00017)

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

RESOLVER/THERM CONNECTOR:

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

PIN	WIRE FUNCTION	WIRE COLOR
U	THERM	BLACK
N	THERM	BLACK
H	SIN	YELLOW
G	COS GND	BLACK
S	COS	RED
F	SIN GND	BLUE
R	REF GND	YEL/WHI
E	REF	RED/WHI
D	RES SHLD	GRN/YEL
P	GND	GRN/YEL
A	-	-
B	-	-
C	-	-
J	-	-
K	-	-
L	-	-
M	-	-
T	-	-



SCHEMATIC DRAWING FOR BRUSHLESS RESOLVER

NO.	PART NUMBER	DESCRIPTION	QTY.
1	PT02E-14-18P	MATING CONNECTOR	
2	MS3102A-22-22P	MATING CONNECTOR	

REV.	DESCRIPTION	DATE	APP.
PRELIMINARY		9/3/99	MVS

MTS Automation Division
 DRAWING NUMBER: MPM1421BSG7G1N
 SCALE: 1/2:1
 DATE: 9/3/99
 DRAWN BY: MVS
 CHECKED BY: MVS
 APPROVED BY: MVS