

MOTOR DATA @ 460 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
MOTOR HORSEPOWER	HP RATED	1.8
	KW RATED	1.33
MAX. OPERATING SPEED	N MAX	2100
SPEED @ RATED TORQUE	RPM	1500
* CONTINUOUS RATED TORQUE	IN-LBS[Nm]	75 [18.4]
* CONTINUOUS STALL TORQUE	IN-LBS[Nm]	83 [19.3]
CONTINUOUS LINE CURRENT	AMPS	3.3
PEAK CURRENT	IN-LBS[Nm]	290.5 [32.7]
MAX. THEORETICAL ACCEL	AMPS	11.7
TORQUE SENSITIVITY	RAD/SEC ²	41,500
BACK EMF (LINE TO LINE)	KLIN-LBS/AMPI[Nm/AMP]	24.8 [2.84]
D.C. RESISTANCE (P-P)	Vrms/Krpm	220.0
INDUCTANCE (P-P)	OHMS	6.3
ROTOR INERTIA W/BRAKE	MILLENRIES	47.4
STATIC FRICTION	Jm	.0070 [0.0079]
	IN-LBS-SEC ² [Kg-M ²]	1.4 [1.8]

*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:

1. AXIAL LOAD: 50 LBS MAX
2. RADIAL LOAD: 100 LBS MAX @ 1" FROM FACE
3. MOTOR SEALED TO IP65.
4. MOTOR WEIGHT: 32.2 LBS. [14.6 Kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
7. MILLIMETERS (INCHES)

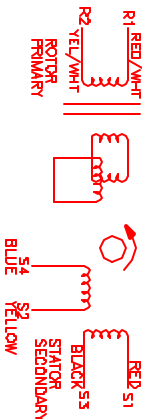
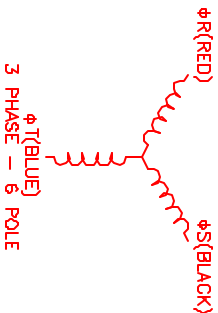
CONNECTION CHART

MOTOR/BRAKE CONNECTOR:
PT02E-16-8P(027)
(270-00032)

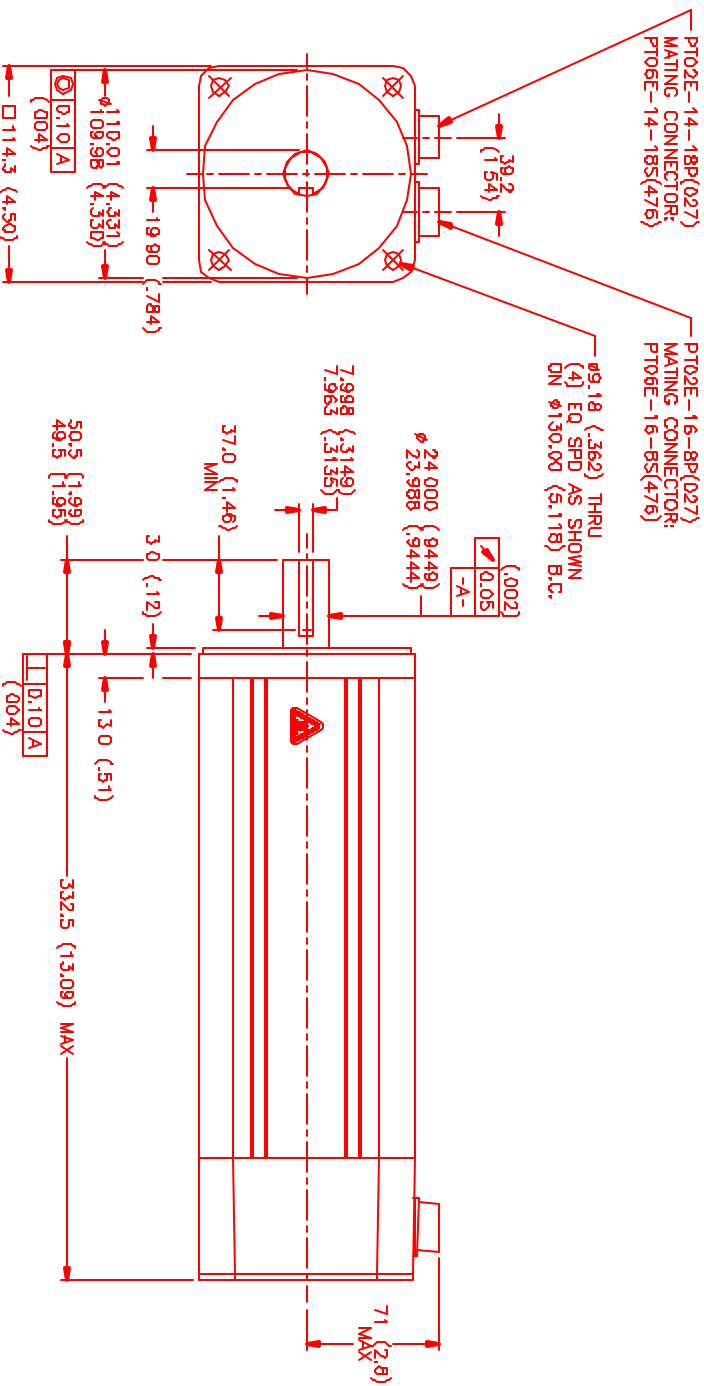
RESOLVER/THERM CONNECTOR:
PT02E-14-18P(027)
(270-00024)

MOTOR/BRAKE	WIRE LEADS	WIRE COLOR
A	ΦR	RED
B	ΦS	BLACK
C	ΦT	BLUE
D	PE GND	GRN/YEL
E	BRK SHLD	-
F	BRK (+)	DIODE
G	BRK (-)	IN4007
H	-	-

RES/THERM	WIRE LEADS	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	RED/WHI
E	REF	RED/YEL
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	71	M/S Systems Corporation Automation Division	
UNITS SERVICES 1/14/89 DATE: 1/14/89 TITLE: D7/460/MET/RES/CONN/BRK APPROVED: [Signature] DRAWN: MPM1142DTJG1R SCALE: 1/2:1			