

**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	N RATED	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 TORQUE	IN-LBS[Nm]	290 @132.71
MAX. THEORETICAL ACCEL	AMPS	11.7
TORQUE SENSITIVITY	RAD/SEC <sup>2</sup>	41,500
BACK EMF (LINE TO LINE)	KV[IN-LBS/AMPI[Nm/AMP]	24.812,841
D.C. RESISTANCE (P-P)	Vrms/Krpm	220.0
INDUCTANCE (P-P)	OHMS	6.3
ROTOR INERTIA W/BRAKE	MILLENRIES	47.4
STATIC FRICTION	IN-LBS-SEC <sup>2</sup> [Kg-M <sup>2</sup> ]	.00701,000791
	IN-LBS[Nm]	1.41,181

\*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: 32.4 LBS. [ 14.7 Kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
7. INCHES (MILLIMETERS)

**FAULSAFE BRAKE:**  
MIN HOLDING TORQUE: 240 IN-LBS  
INPUT VOLTAGE: 24 VOLTS

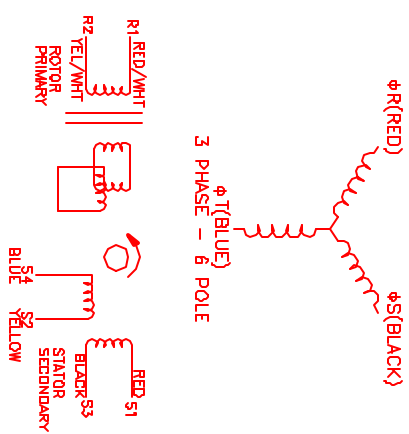
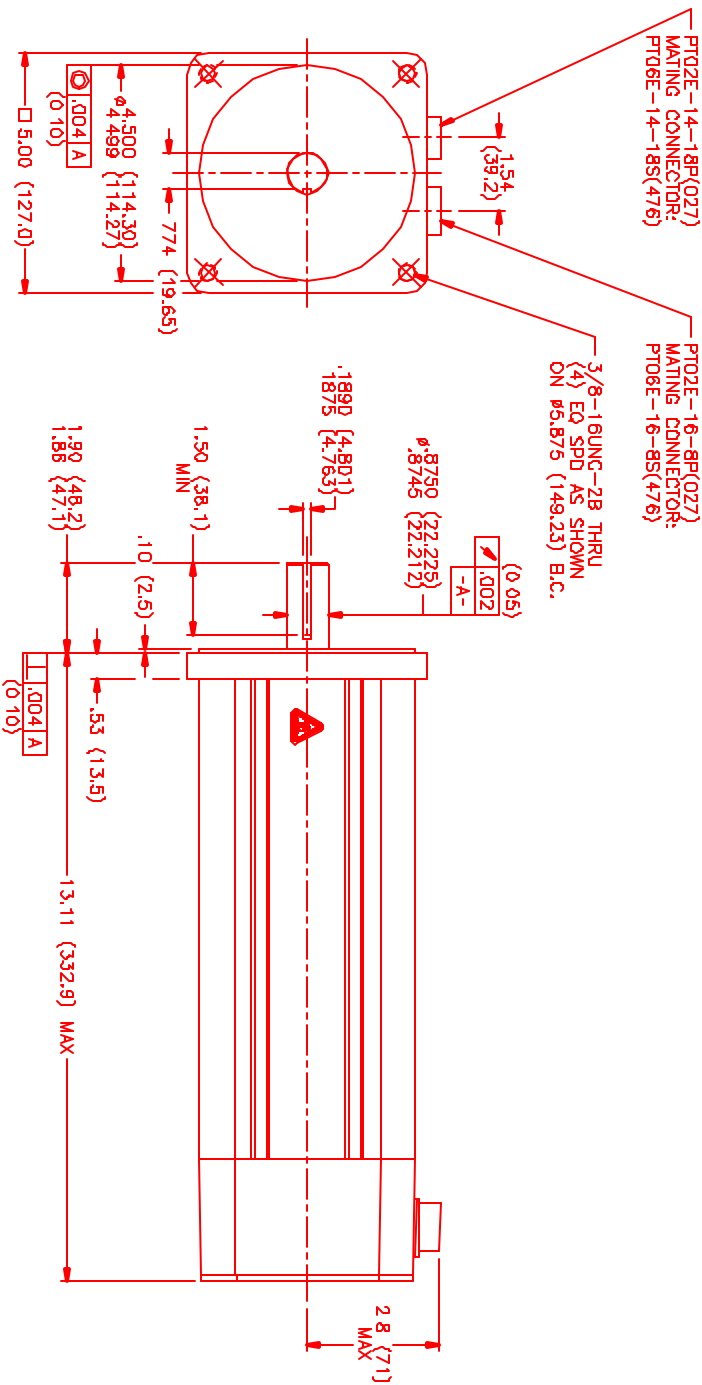
**CONNECTION CHART**

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

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

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

RES/THERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR
A	-	-
B	-	-
C	-	-
J	-	-
K	-	-
L	-	-
M	-	-
T	-	-



SCHEMATIC DRAWING FOR BRUSHLESS RESOLVER

REV	REVISIONS	DATE	APP'D.
1	PRELIMINARY	1/13/99	MVS

NO.	PART NUMBER	DESCRIPTION	QTY.
1	RESOLVER	MTS AutoOrientation	
2	RESOLVER	Custom Servo Motors	
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