

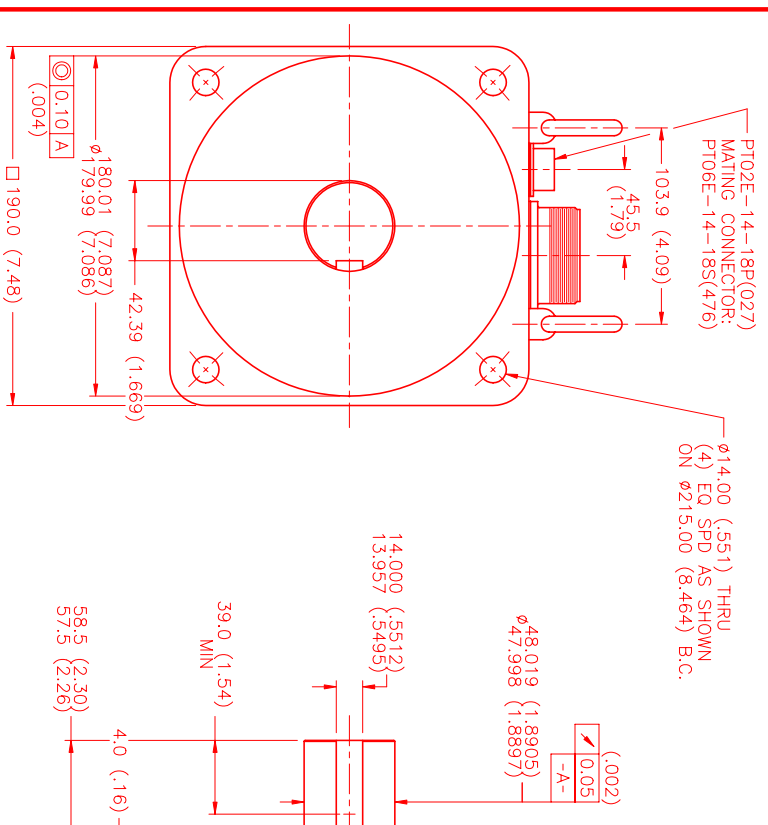
MOTOR DATA @ 460 VAC (SINE)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP RATED	35.7
KILOWATTS	KW RATED	26.7
MAX. OPERATING SPEED	N. MAX RPM	3000
SPEED @ RATED TORQUE	N RATED RPM	2400
* CONTINUOUS RATED TORQUE @ 2400 RPM	N-LBS[Nm]	939.0 [105.0]
* CONTINUOUS STALL TORQUE	N-LBS[Nm]	1092.0 [123.0]
CONTINUOUS LINE CURRENT	AMPS/(RMS/Φ)	43.8
PEAK TORQUE	TPK	3276.0 [370.0]
PEAK CURRENT	AMPS/(RMS/Φ)	131.5
MAX. THEORETICAL ACCEL.	RAD/SEC ²	24.632
TORQUE SENSITIVITY	Kt [N-LBS/AMPERE/Φ]/[Nm/AMPERE/Φ]	24.9 [2.8]
BACK EMF (LINE TO LINE)	Vrms/Krpm	158.0
D.C. RESISTANCE (P-P)	OHMS	.19
INDUCTANCE (P-P)	MILLIHENRIES	3.2
ROTOR INERTIA	Jm [N-LBS-SEC ²]/Kg-M ²	.133 [0.150]
STATIC FRICTION	Tf [N-LBS]/Nm	13.0 [1.5]

*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 14" X 14" X 3/4" 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: 100 LBS MAX
2. RADIAL LOAD: 250 LBS MAX @ 1" FROM FACE
3. MOTOR SEALED TO IP65.
4. MOTOR WEIGHT: 160 LBS. [72.6 kg]
5. MOTOR FINISH: BLACK EPOXY
6. MILLIMETERS (INCHES)



CONNECTION CHART

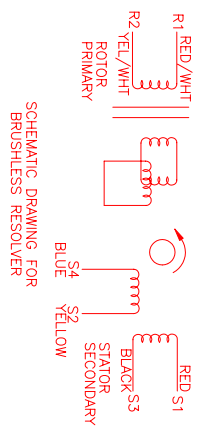
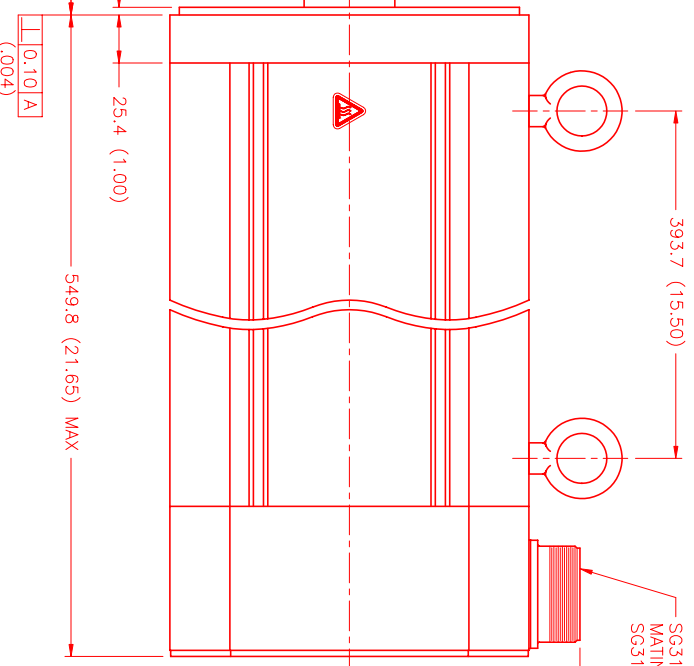
MOTOR CONNECTOR:
SG3102E-32-17P(027)
(270-00066)

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

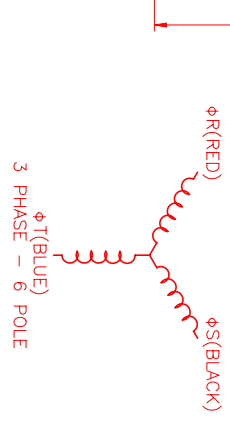
RESOLVER/THERM CONNECTOR:

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

MOTOR WIRE LEADS	RES/THERM WIRE LEADS
A	U
B	N
C	H
D	G
	S
	F
	R
	E
	P
	D
	A
	B
	C
	J
	K
	L
	M
	T



SCHEMATIC DRAWING FOR BRUSHLESS RESOLVER



3 PHASE - 6 POLE

REV	DESCRIPTION	DATE	APP'D.
PRELIMINARY		6/19/00	AJS

NO.	PART NUMBER	DESCRIPTION	QTY.
1	SG3102E-32-17P(027)	MOTOR	1
2	PT02E-14-18P(027)	MATING CONNECTOR	1
3	SG3106E-32-17S(476)	MATING CONNECTOR	1

DESIGN	DATE	BY	CHKD.
UNLESS SPECIFIED	6/19/00	AJS	

NO.	PART NUMBER	DESCRIPTION	QTY.
1	SG3102E-32-17P(027)	MOTOR	1
2	PT02E-14-18P(027)	MATING CONNECTOR	1
3	SG3106E-32-17S(476)	MATING CONNECTOR	1

MTS Automation Division

DATE: 6/19/00
 TITLE: "C" /SINE/460/MET/RES/CONN
 MATERIAL:
 DRAWING NUMBER: MPM1904CSU7G1N
 SCALE: 1/2:1