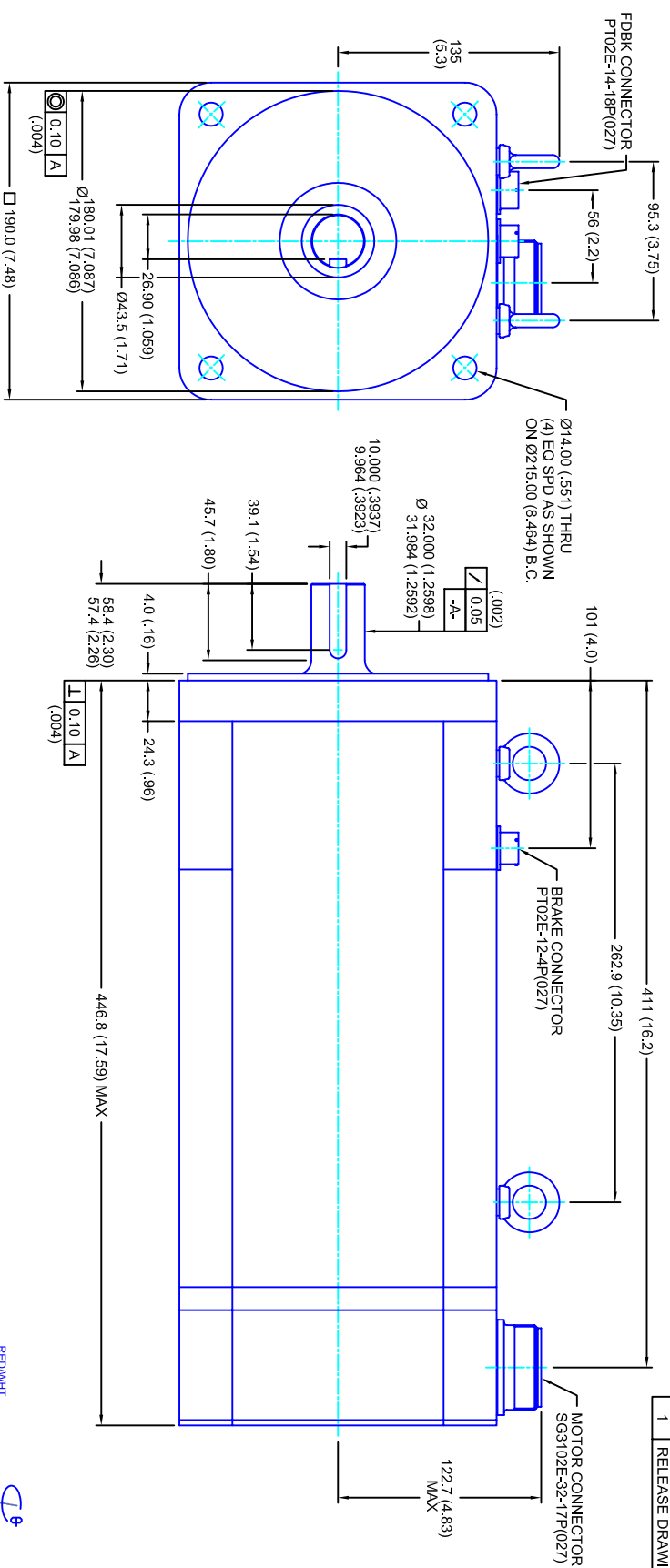


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	RELEASE DRAWING	12/1/04	



- NOTES:**
1. MILLIMETERS (INCHES)
 2. AXIAL LOAD: 45 KG [100 LBS] MAX
 3. RADIAL LOAD: 113 KG [250 LBS] MAX @ 25.4MM [1.00] FROM FACE
 4. MOTOR SEALED TO IP65
 5. MOTOR SHAFT: G&P STEEL, GRADE 1144
 6. MOTOR FINISH: BLACK MATT FINISH
 7. MOTOR WEIGHT: 55 KG [121 LBS]

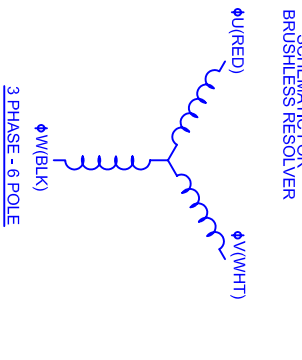
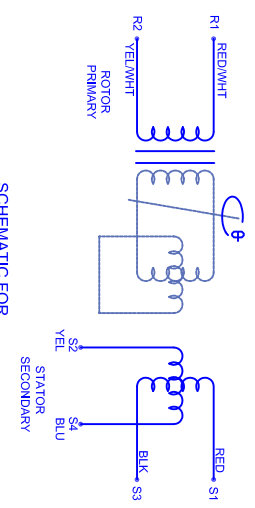
ELECTRICAL DATA

MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	230
AMP TYPE	-	SINE
HORSEPOWER	HP	20.9
KILOWATTS	KW	15.6
MAX OPERATING SPEED	RPM	3000
SPEED @ RATED TORQUE	RPM	2400
*CONTINUOUS RATED TORQUE @ 2400 RPM	IN-LBS(INM)	550(2.1)
*CONTINUOUS STALL TORQUE	IN-LBS(INM)	640(2.3)
CONTINUOUS LINE CURRENT	AMPS(RMS/Φ)	50.4
PEAK TORQUE	IN-LBS(INM)	1780(201.1)
PEAK CURRENT	AMPS(RMS/Φ)	140.2
MAX THEORETICAL ACCEL.	RAD/SEC ²	23.270
TORQUE SENSITIVITY	KI [N-LBS/AMP/RMS/Φ] [INM/AMP/RMS/Φ]	12.7(1.44)
BACK EMF (LINE TO LINE)	Vrms/Krpm	80
D.C. RESISTANCE (P-P)	OHMS	.09
INDUCTANCE (P-P)	MILLIHENRIES	1.0
ROTOR INERTIA	IN-LBS-SEC ² [KG-M ²]	.0765(.00864) w/ Bk
STATIC FRICTION	TT	9.8(1.1)

CONNECTION CHART

PT02E-14-18P(027)				SG3102E-32-17P(027)			
REST/TERM	WIRE	WIRE	WIRE	REST/TERM	WIRE	WIRE	WIRE
FUNCTION	FUNCTION	FUNCTION	FUNCTION	FUNCTION	FUNCTION	FUNCTION	FUNCTION
A	-	-	-	A	Φ U	RED	RED
B	-	-	-	B	Φ V	WHT	WHT
C	-	-	-	C	Φ W	BLK	BLK
D	RES SHLD	WHT/BLK	-	D	PE GND	GRN/YEL	-
E	RES REF	RED/WHT	-				
F	SIN GND	YEL	-				
G	COS GND	BLK	-				
H	SIN	BLU	-				
J	-	-	-				
K	-	-	-				
L	-	-	-				
M	-	-	-				
N	THERM	WHT	-				
P	-	-	-				
R	REF GND	YEL/WHT	-				
S	COS	RED	-				
T	-	-	-				
U	THERM	WHT	-				

BRAKE INFO:
 INPUT VOLTAGE: 24 VDC
 HOLDING FORCE: 122 Nm [90 FT-LBS] MAX
 CURRENT DRAW: 2.51 AMPS
 RELEASING TIME: 100 ms
 INERTIA: .00150 IN-LBS-SEC²



TOLERANCES UNLESS SPECIFIED

BORE: = H12 ✓
 DECIMAL .xxx ±.12 (.005)
 DECIMAL .xx ±.25 (.010)
 DECIMAL .x ±.51 (.020)
 DECIMAL . ±.40 (.016)
 ANGLE: = 0.50

REMOVE ALL BURRS/BREAK SHARP EDGES, ZAMPER (0.10°)

PROPRIETARY RIGHTS OF CUSTOM MOTORS ARE INCLUDED IN THE INFORMATION DISCLOSED HEREIN. THIS INFORMATION DOES NOT CONSTITUTE AN OFFER OF ANY PRODUCT OR SERVICE. CUSTOMER SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

CUSTOM MOTORS INC

230V/KE=80/MET/RES/CONN/BRK

CUSTOMER: - DRAWING NO. 190MM - 2 STK

SCALE 1/2:1 DATE 6/26/04 DRAWING NO. CM1902Q80MKRCSB

CUSTOMER: - DRAWING NO. CM1902Q80MKRCSB

SCALE 1/2:1 DATE 6/26/04 DRAWING NO. CM1902Q80MKRCSB

REV. 1