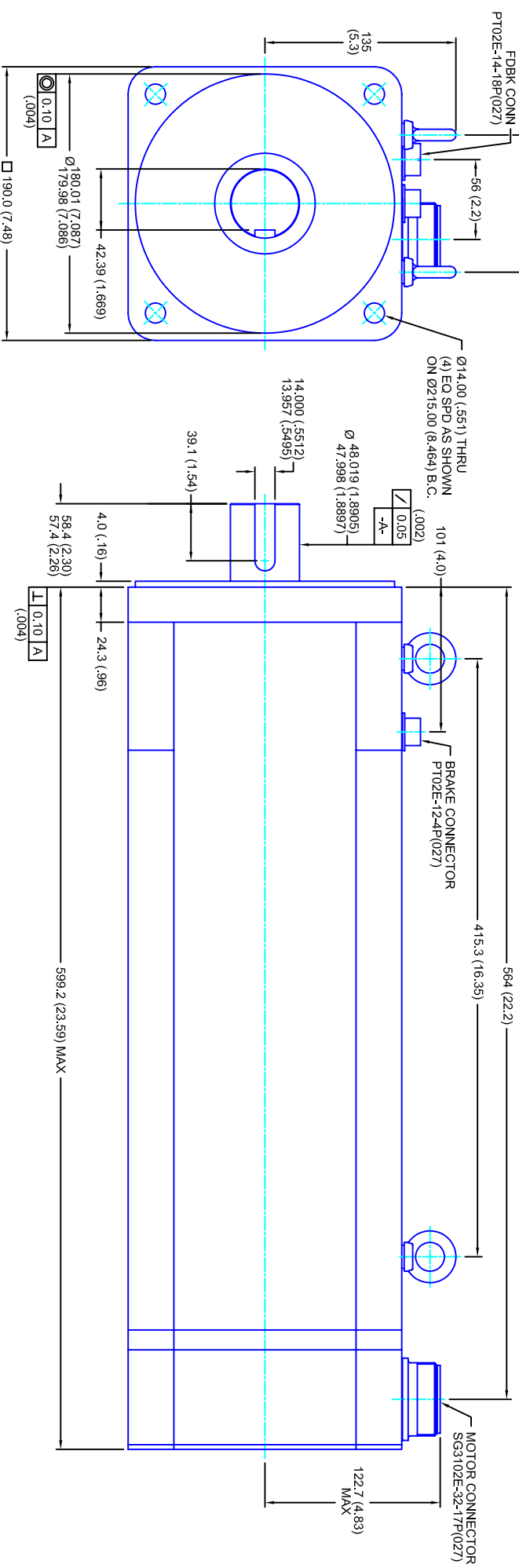


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	RELEASE DRAWING	12/4/04	



- 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 84 KG [185 LBS ]

**ELECTRICAL DATA**

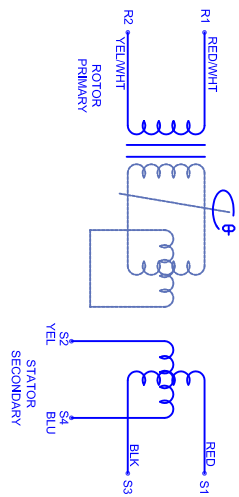
MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	230
AMP TYPE	-	SINE
HORSEPOWER	HP	35.7
KILOWATTS	KW	26.7
MAX OPERATING SPEED	RPM	3000
SPEED @ RATED TORQUE	RPM	2400
*CONTINUOUS RATED TORQUE @ 2400 RPM	IN-LBS(INM)	939(106.1)
*CONTINUOUS STALL TORQUE	IN-LBS(INM)	1092(123.4)
CONTINUOUS LINE CURRENT	AMPS(RMS/Φ)	63.5
PEAK TORQUE	IN-LBS(INM)	1780(201.1)
PEAK CURRENT	AMPS(RMS/Φ)	103.5
MAX THEORETICAL ACCEL.	RAD/SEC <sup>2</sup>	12,806
TORQUE SENSITIVITY	KI [N-SS/AMP/RMS/Φ]/(NIN/AMP/ENIS/Φ)	17.2(1.94)
BACK EMF (LINE TO LINE)	Vrms/Krpm	108
D.C. RESISTANCE (P-P)	OHMS	.06
INDUCTANCE (P-P)	MILLIHENRIES	.84
ROTOR INERTIA	IN-LBS-SEC <sup>2</sup> [KG-M <sup>2</sup> ]	.1412(0.1596) w/ Bk
STATIC FRICTION	TT	13.0(1.5)

**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	WHT/BLK	D	PE GND	GRN/YEL	GRN/YEL
E	SIN GND	RED/WHT	RED/WHT	PT02E-12-4P(027)			
F	COS GND	BLK	BLK	BRAKE WIRE LEADS			
G	COS GND	BLU	BLU	WIRE	WIRE	WIRE	WIRE
H	SIN	-	-	FUNCTION	FUNCTION	FUNCTION	FUNCTION
J	-	-	-	A	BRK (+)	RED	RED
K	-	-	-	B	BRK (-)	BLK	BLK
L	-	-	-	C	-	-	-
M	-	-	-	D	-	-	-
N	TERM	WHT	WHT	BRAKE WIRE LEADS			
P	-	-	-	WIRE	WIRE	WIRE	WIRE
R	REF GND	YEL/WHT	YEL/WHT	FUNCTION	FUNCTION	FUNCTION	FUNCTION
S	COS	RED	RED	A	BRK (+)	RED	RED
T	-	-	-	B	BRK (-)	BLK	BLK
U	TERM	WHT	WHT	C	-	-	-

**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-SEC

**SCHEMATIC FOR BRUSHLESS RESOLVER**



**TOLERANCES UNLESS SPECIFIED**

BORER:	= H12	✓
DECIMAL .xxx	± .12 (005)	
DECIMAL .xx	± .25 (020)	
DECIMAL .x	± .51 (020)	
ANGLE (MM/INCHES)	± .030	

REMOVE ALL BURRS/BREAK SHARP EDGES AS SHOWN (0.10°)

**190MM - 4 STK**

**230V/KE=108/METRES/CONN/BRK**

**CUSTOM MOTORS INC**

CUSTOMER: DRAWN: DFLA SHEET: 1 OF 1

SCALE: 1/2:1 DATE: 6/27/04 DRAWING NO.: CM1904Q108MKRCB REV.: 1

\*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON THE MOTOR. THERMOSTAT IN STATOR WILL OPEN IF STATOR TEMPERATURE EXCEEDS 155°C. THIS WILL GIVE YOU ~10% HEADROOM IN THE CONTINUOUS TORQUE RATING BEFORE THERMOSTAT OPENS. MOTOR MOUNTED ON A 356 X 356 X 19MM ALUMINUM HEATSINK.