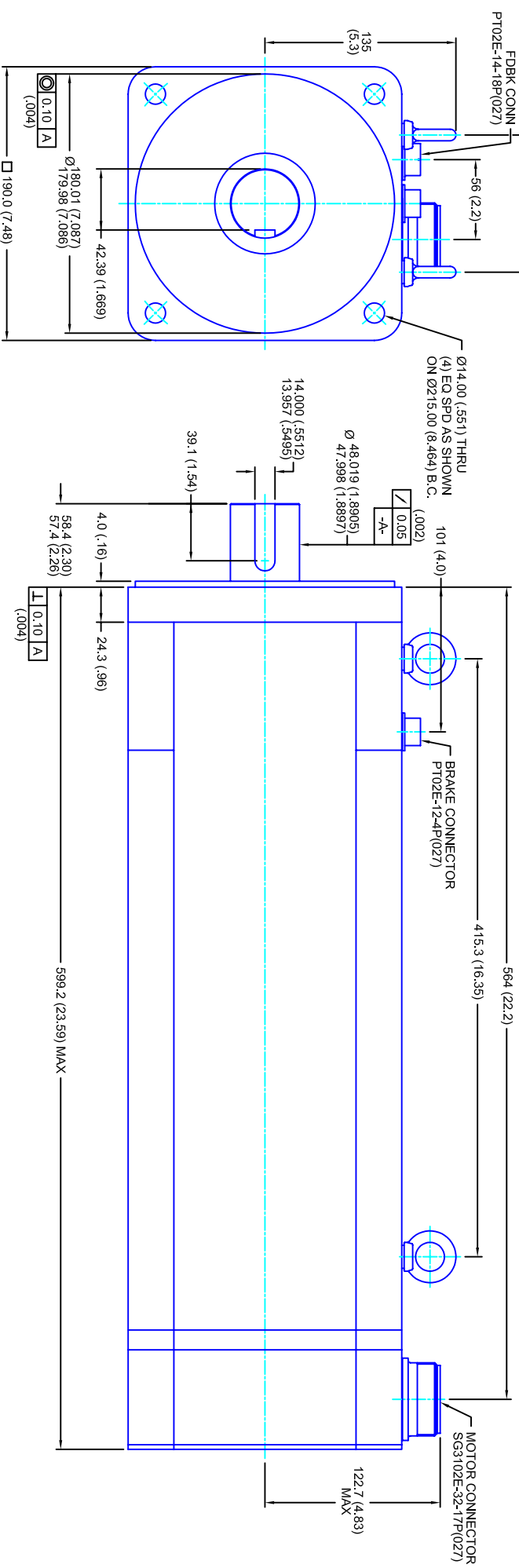


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	QUOTE DRAWING	9/8/04	



- 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	460
AMP TYPE	-	SINE
HORSEPOWER	HP	18.0
KILOWATTS	KW	13.4
MAX OPERATING SPEED	RPM	1500
SPEED @ RATED TORQUE	RPM	1200
*CONTINUOUS RATED TORQUE @ 1200 RPM	IN-LBS(INM)	939(106.1)
*CONTINUOUS STALL TORQUE	IN-LBS(INM)	1092(123.4)
CONTINUOUS LINE CURRENT	AMP(S/RMS/Φ)	21.2
PEAK TORQUE	IN-LBS(INM)	3276(370.2)
PEAK CURRENT	AMP(S/RMS/Φ)	63.6
MAX THEORETICAL ACCEL.	RAD/SEC ²	23,201
TORQUE SENSITIVITY	KI [N-SS/AMP/RMS/Φ]/(NIN/AMP/ENIS/Φ)	51.5(5.82)
BACK EMF (LINE TO LINE)	Vrms/Krpm	324
D.C. RESISTANCE (P-P)	OHMS	.53
INDUCTANCE (P-P)	MILLIHENRIES	7.8
ROTOR INERTIA	IN-LBS-SEC ² [KG-M ²]	.1412(0.1596) w/ Bk
STATIC FRICTION	TT	13.0(1.5)

CONNECTION CHART

PT02E-14-18P(027)

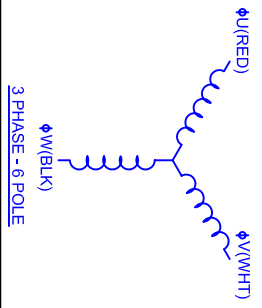
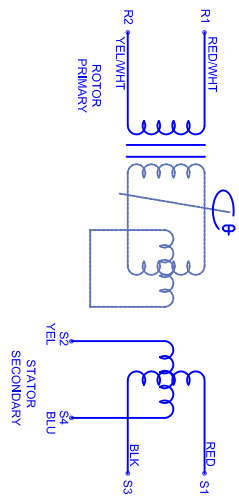
REST/TERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR
PIN A	-	-
PIN B	-	-
PIN C	-	-
PIN D	RES SHLD	WHT/BLK
PIN E	REF	RED/WHT
PIN F	SIN GND	YEL
PIN G	COS GND	BLK
PIN H	SIN	BLU
PIN J	-	-
PIN K	-	-
PIN L	-	-
PIN M	-	-
PIN N	THERM	WHT
PIN P	-	-
PIN R	REF GND	YEL/WHT
PIN S	COS	RED
PIN T	-	-
PIN U	THERM	WHT

SG3102E-32-17P(027)

MOTOR WIRE LEADS	WIRE FUNCTION	WIRE COLOR
PIN A	Φ U	RED
PIN B	Φ V	WHT
PIN C	Φ W	BLK
PIN D	PE GND	GRN/YEL

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



460V/KE-324/MET/RES/CONN/BRK
 190MM - 4 STK
 CUSTOM MOTORS INC

MATERIAL:	SCALE	DATE	DRAWING NO.	CUSTOMER:	DATE	DRAWING NO.	REVISIONS
	1/2:1	9/8/04	CW1904R324MKRCSB				1

TOLERANCES UNLESS SPECIFIED
 BORE: = H12
 DECIMAL .xxx ±.12 (.005)
 DECIMAL .xx ±.25 (.020)
 DECIMAL .x ±.51 (.020)
 DECIMAL .x ±.40 (.016)
 ANGLE (MM/INCHES) ±.030

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

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