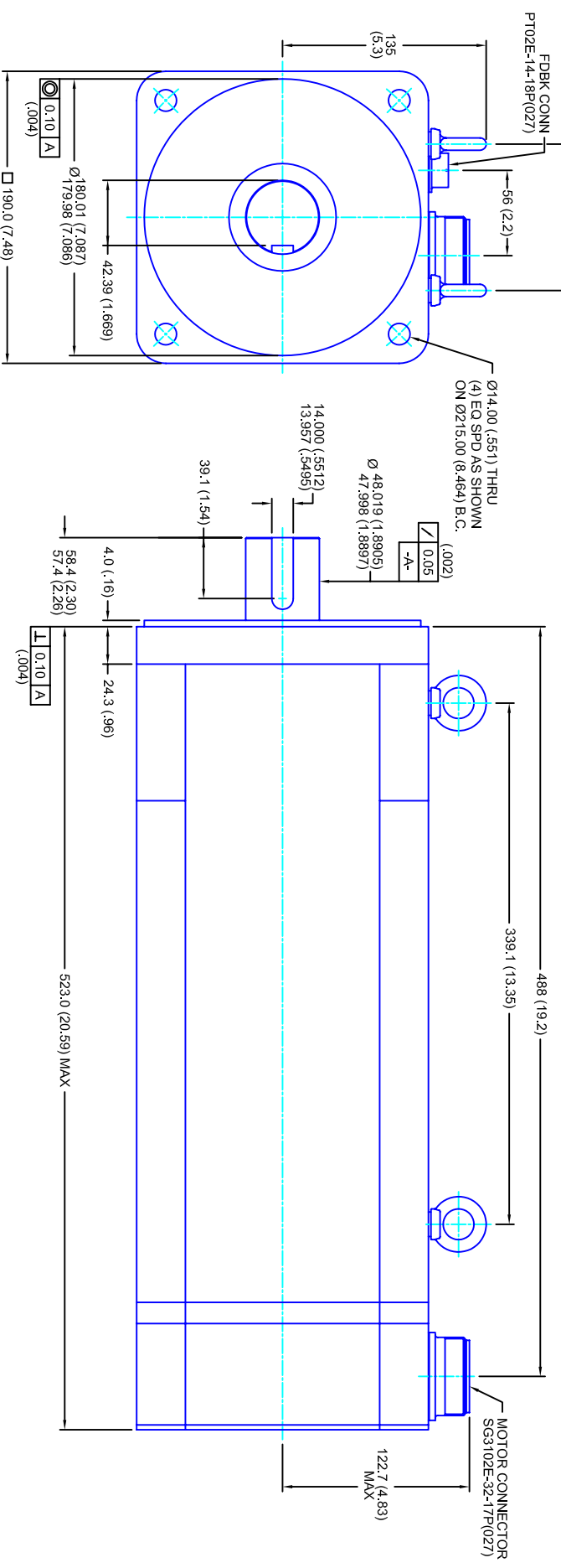


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	RELEASE DRAWING	12/4/04	



- 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 73 KG [162 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 ²	12,742
TORQUE SENSITIVITY	KI [N-BS/AMP/RMS/Φ]/(NIN-AMP/RMS/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 ² [KG-M ²]	.1397(.01579)
STATIC FRICTION	TT	13.0(1.5)

CONNECTION CHART

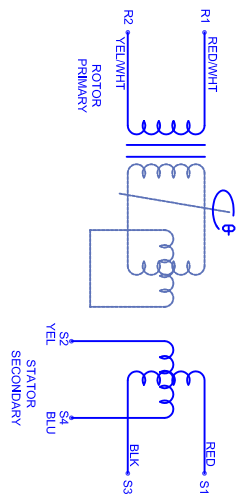
PT02E-14-18P(027)

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	ΦU	RED
PIN B	ΦV	WHT
PIN C	ΦW	BLK
PIN D	PE GND	GRN/YEL

SCHEMATIC FOR BRUSHLESS RESOLVER



TOLERANCES UNLESS SPECIFIED

BORER:	= H12	✓
DRILL:	= H12	✓
DECIMAL .xxx	±.12 (005)	
DECIMAL .xx	±.25 (010)	
DECIMAL .x	±.51 (020)	
ANGLE	±.40 (016)	
ANGLE (MM/INCHES)	±.030	

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

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CUSTOM MOTORS INC
190MM - 4 STK
230V/KE=108/MET/RES/CONN

FINISH:	CUSTOMER:	SCALE	DATE	DRAWING NO.	DRAWN:	SHEET:	REV.
		1/2:1	6/27/04	CM1904Q108MKRCS	DFLA	1 OF 1	1