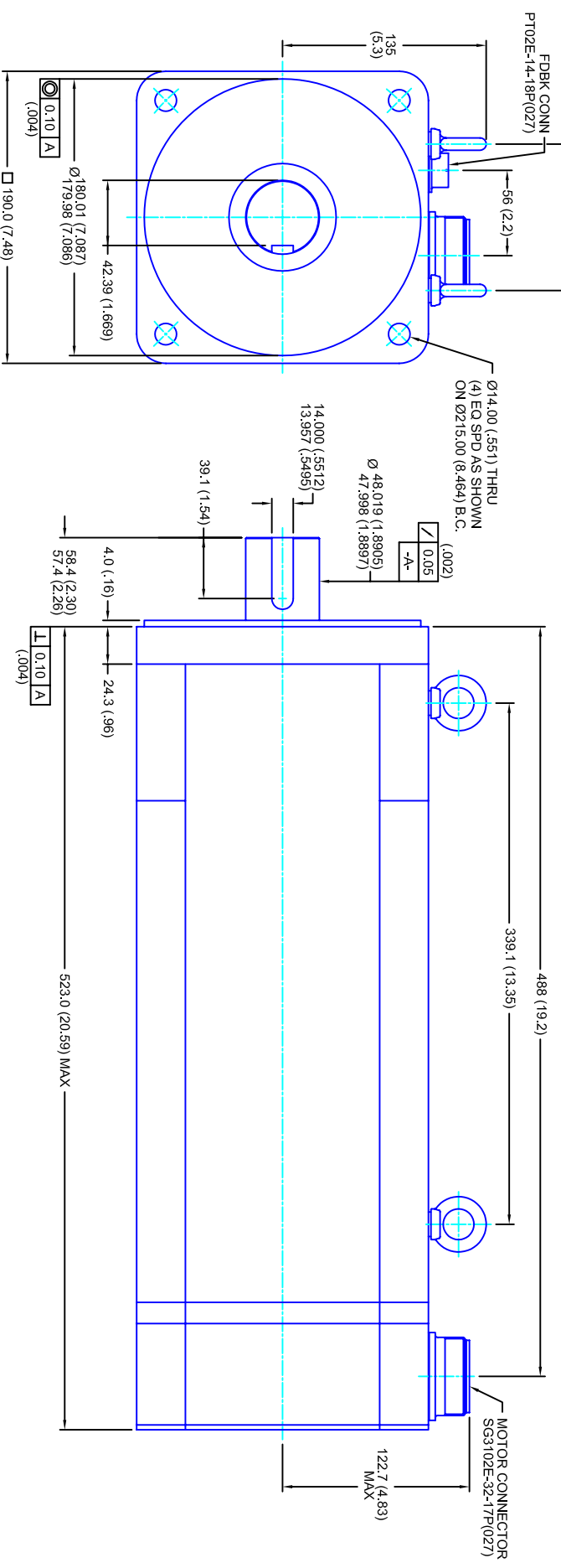


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	RELEASE DRAWING	12/4/04	



- 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 <sup>2</sup>	12,742
TORQUE SENSITIVITY	KI [N-BS/AMP/RMS/Φ]/(NINM/PMIS/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> ]	.1397(.01579)
STATIC FRICTION	TT	13.0(1.5)

**CONNECTION CHART**

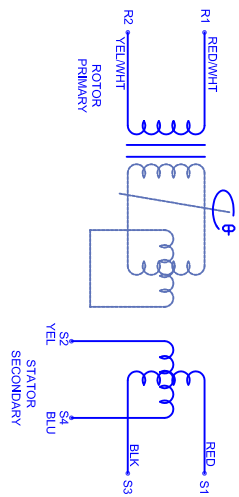
PT02E-14-18P(027)

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
- BORE: = 63 Ra ✓
- DECIMAL .XXX: ±.12 (005)
- DECIMAL .XX: ±.25 (010)
- DECIMAL .X: ±.51 (020)
- ANGLE: ±.40 (016)
- ANGLE: ±.030

REMOVE ALL BURRS/BREAK SHARP EDGES AS PER (010)

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

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