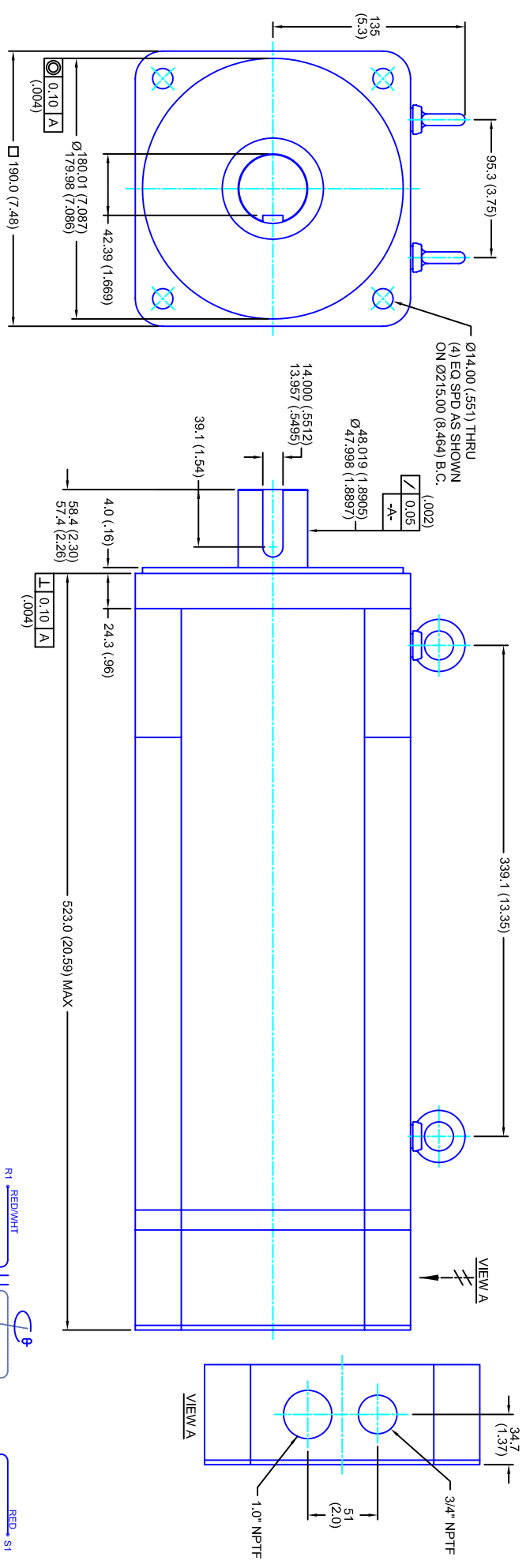


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	RELEASE DRAWING	12/4/04	



- 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]

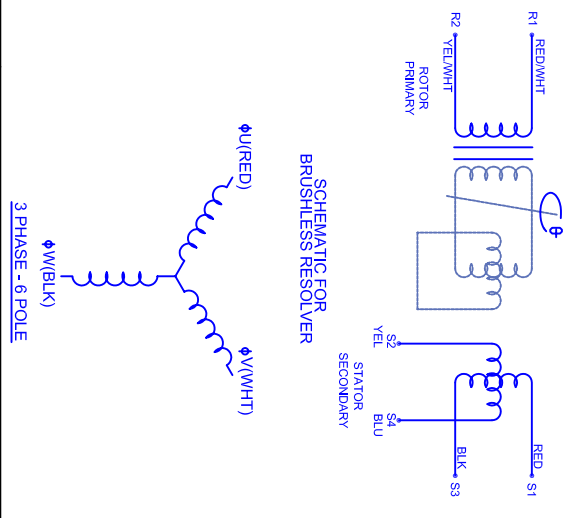
ELECTRICAL DATA

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	AMP(S/RMS/Φ)	63.5
PEAK TORQUE	IN-LBS(INM)	1780[201.1]
PEAK CURRENT	AMP(S/RMS/Φ)	103.5
MAX THEORETICAL ACCEL.	RAD/SEC ²	12,742
TORQUE SENSITIVITY	KI [N-BS/AMP/RMS/Φ][IN/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

RES/THERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR	TERMINAL FUNCTION	WIRE COLOR
R1	SHLD	WHT/BLK	1	RED
R2	THERM	WHT	2	WHT
R3	THERM	WHT	3	BLK
R4	SIN GND	YEL	-	GRN/VEL
R5	COS GND	BLK	-	
R6	COS	RED	-	
R7	SIN	BLU	-	
R8	REF	RED/WHT	-	
R9	REF GND	YEL/WHT	-	
R10	-	-	-	
R11	-	-	-	

SCHEMATIC FOR BRUSHLESS RESOLVER



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

MATERIAL:	SCALE	DATE	DRAWING NO.	CUSTOMER:	DRAWING SHEET:	REV.
	1/2:1	6/13/04	CM1904Q.108MKNRNP		1 OF 1	1

TOLERANCES UNLESS SPECIFIED
 BORE: = H12 ✓
 DECIMAL .xxx ±.12 (.005)
 DECIMAL .xx ±.25 (.010)
 DECIMAL .x ±.51 (.020)
 ANGLE ° ±.09
 HOLE ±.09
 REMOVE ALL BURRS/BREAK SHARP EDGES, ZAMPER (0.10°)
 FINISH: K125, SHAMBER
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 CUSTOMER: CM1904Q.108MKNRNP
 DRAWING SHEET: 1 OF 1