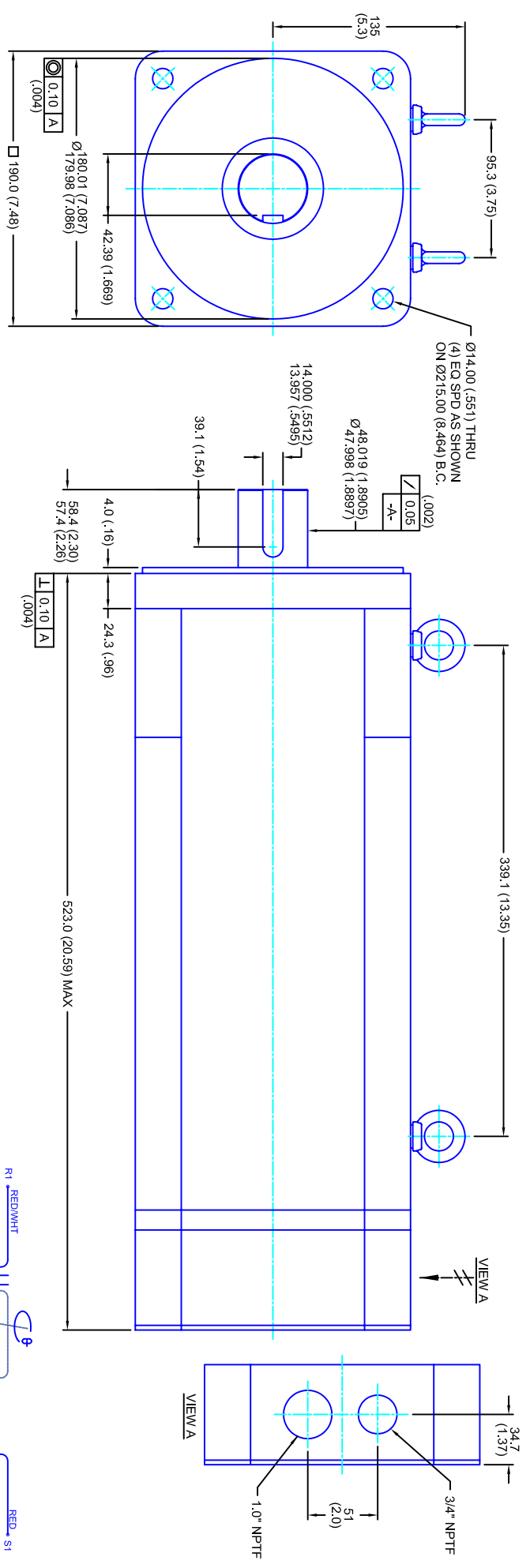


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	RELEASED DRAWING	11/3/05	



- 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]

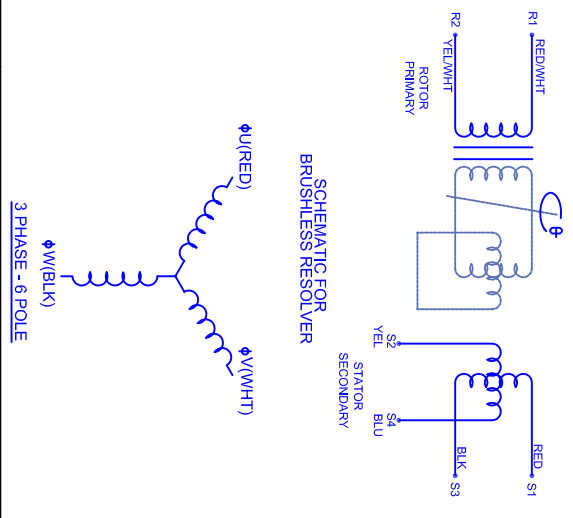
ELECTRICAL DATA

MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	230
AMP TYPE	-	SINE
HORSEPOWER	HP	18.0
KILOWATTS	KW	13.4
MAX OPERATING SPEED	RPM	1400
SPEED @ RATED TORQUE	RPM	1200
*CONTINUOUS RATED TORQUE @ 1200 RPM	IN-LBS(INM)	9391(06.1)
*CONTINUOUS STALL TORQUE	IN-LBS(INM)	10921(23.4)
CONTINUOUS LINE CURRENT	AMP(S/RMS/Φ)	43.0
PEAK TORQUE	IN-LBS(INM)	3276(370.2)
PEAK CURRENT	AMP(S/RMS/Φ)	127.5
MAX THEORETICAL ACCEL.	RAD/SEC ²	23,450
TORQUE SENSITIVITY	KI [N-LBS/AMP/RMS]/(NINM/AMP/RMS/Φ)	25.7(2.91)
BACK EMF (LINE TO LINE)	Vrms/Krpm	162
D.C. RESISTANCE (P-P)	OHMS	.14
INDUCTANCE (P-P)	MILLIHENRIES	1.9
ROTOR INERTIA	IN-LBS-SEC ² [KG-M ²]	.1397(.01579)
STATIC FRICTION	TT	13.0(1.5)

CONNECTION CHART

RES/TERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR	TERMINAL FUNCTION	WIRE COLOR	MOTOR WIRE LEADS	WIRE FUNCTION	WIRE COLOR
R1	SHLD	WHT/BLK	1	Φ U	RED	Φ U	RED
R2	THERM	WHT	2	Φ V	WHT	Φ V	WHT
R3	THERM	WHT	3	Φ W	BLK	Φ W	BLK
R4	SIN GND	YEL	-	PE GND	GRN/VEL	-	-
R5	SIN 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=162METRES/NPT

TOLERANCES UNLESS SPECIFIED	
BORER:	= H2
DECIMAL .xxx	±.12 (0.05)
DECIMAL .xx	±.25 (0.10)
DECIMAL .x	±.51 (0.20)
ANGLE	±.01 (0.6)
ANGLE (MM INCHES)	±.030

REMOVE ALL BURRS/BREAK SHARP EDGES, ZAMPER (0.10)

PROPRIETARY RIGHTS OF CUSTOM MOTORS ARE INCLUDED IN THE INFORMATION PROVIDED HEREIN. THIS INFORMATION IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

CUSTOMER: DATE: DRAWING NO. SCALE: 1/2:1

FINISH: MATERIAL: 9/8/04 CM1904Q.162MKRNP

DRAWN: DFLA SHEET: 1 OF 1

REV. 1