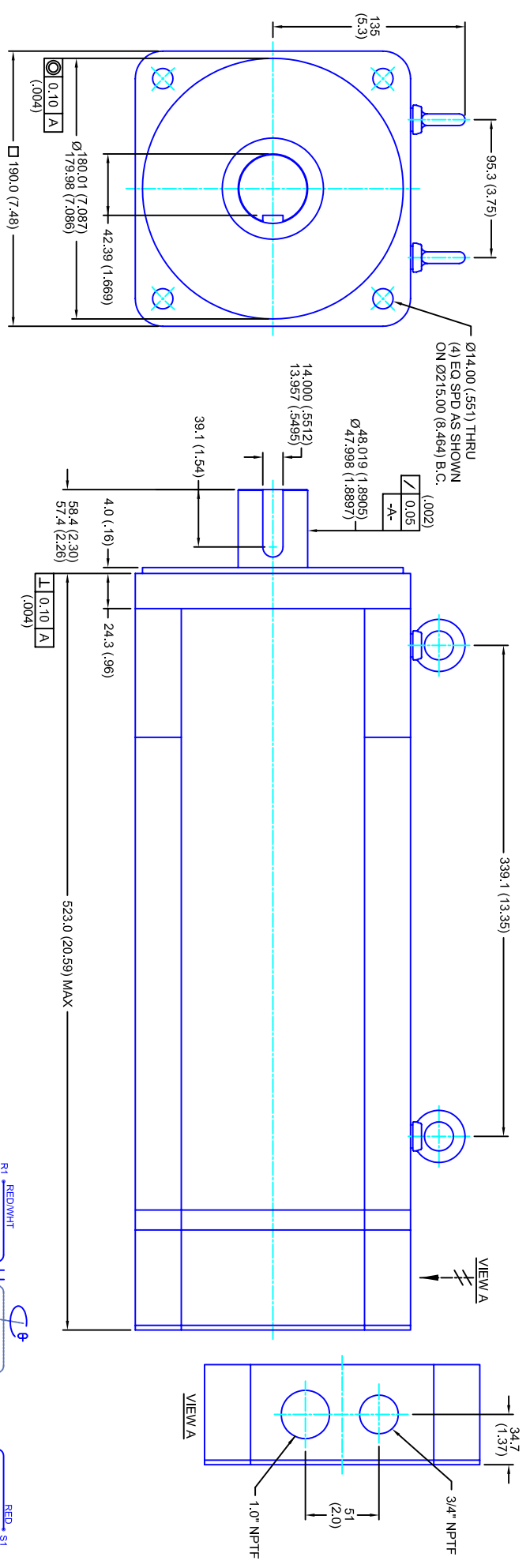


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	QUOTE DRAWING	6/13/04	



- NOTES:**
- MILLIMETERS (INCHES)
 - AXIAL LOAD: 45 KG [100 LBS] MAX
 - RADIAL LOAD: 113 KG [250 LBS] MAX @ 25.4MM [1.00] FROM FACE
 - MOTOR SEALED TO IP65
 - MOTOR SHAFT: G&P STEEL, GRADE 1144
 - MOTOR FINISH: BLACK MATT FINISH
 - MOTOR WEIGHT: 69 KG [153 LBS]

ELECTRICAL DATA

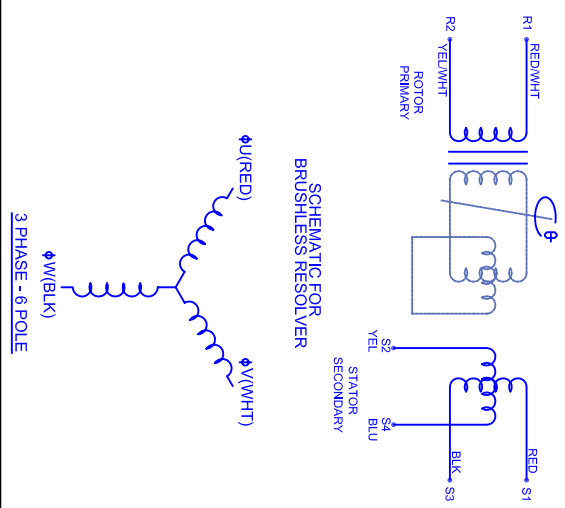
MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	230
AMP TYPE	SINE	
HORSEPOWER	HP	28.8
KILOWATTS	KW	21.5
MAX OPERATING SPEED	RPM	3000
SPEED @ RATED TORQUE	RPM	2400
*CONTINUOUS RATED TORQUE @ 2400 RPM	IN-LBS(INM)	75/76.51
*CONTINUOUS STALL TORQUE	IN-LBS(INM)	880/99.41
*CONTINUOUS LINE CURRENT	AMPS(RMS/Φ)	69.3
PEAK TORQUE	IN-LBS(INM)	1780/201.11
PEAK CURRENT	AMPS(RMS/Φ)	140.2
MAX THEORETICAL ACCEL.	RAD/SEC ²	16,226
TORQUE SENSITIVITY	KI [N-BS/AMP(RMS/Φ)](IN-AMP(RMS/Φ))	12.7/1.44
BACK EMF (LINE TO LINE)	Vrms/Krpm	80
D.C. RESISTANCE (P-P)	OHMS	.05
INDUCTANCE (P-P)	MILLIHENRIES	.65
ROTOR INERTIA	Jm [IN-LBS-SEC ²](KG-M ²)	.1097/0.1240 w/ BRK
STATIC FRICTION	TF [IN-LBS(INM)]	11.4/1.31

CONNECTION CHART

RES/THERM/BRK WIRE LEADS	WIRE FUNCTION	WIRE COLOR	TERMINAL FUNCTION	WIRE COLOR
R1	SHLD	WHT/BLK	Φ U	RED
R2	THERM	WHT	Φ V	WHT
R3	THERM	WHT	Φ W	BLK
R4	SIN GND	YEL	PE GND	GRN/YEL
R5	COS GND	BLK		
R6	COS	RED		
R7	SIN	BLU		
R8	REF	RED/WHT		
R9	REF GND	YEL/WHT		
R10	BRK (-)	BLK		
R11	BRK (+)	RED		

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



CUSTOM MOTORS INC
 190MM - 3 STK
 230V/KE-80/MET/RES/NPT

SCALE	DATE	DRAWING NO.	CUSTOMER	DRAWN	DFLA SHEET	REV.
1/2:1	3/22/04	CM1903Q80MKRNPBTB			1 OF 1	1

TOLERANCES UNLESS SPECIFIED
 SURFACE FINISH: = 63 Ra ✓
 BORE: = H12
 DECIMAL .xxx ±.12 (0.05)
 DECIMAL .xxx ±.25 (0.10)
 DECIMAL .xx ±.51 (0.20)
 DECIMAL .x ±.40 (0.16)
 ANGLE (MM/INCHES) ±.030

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

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