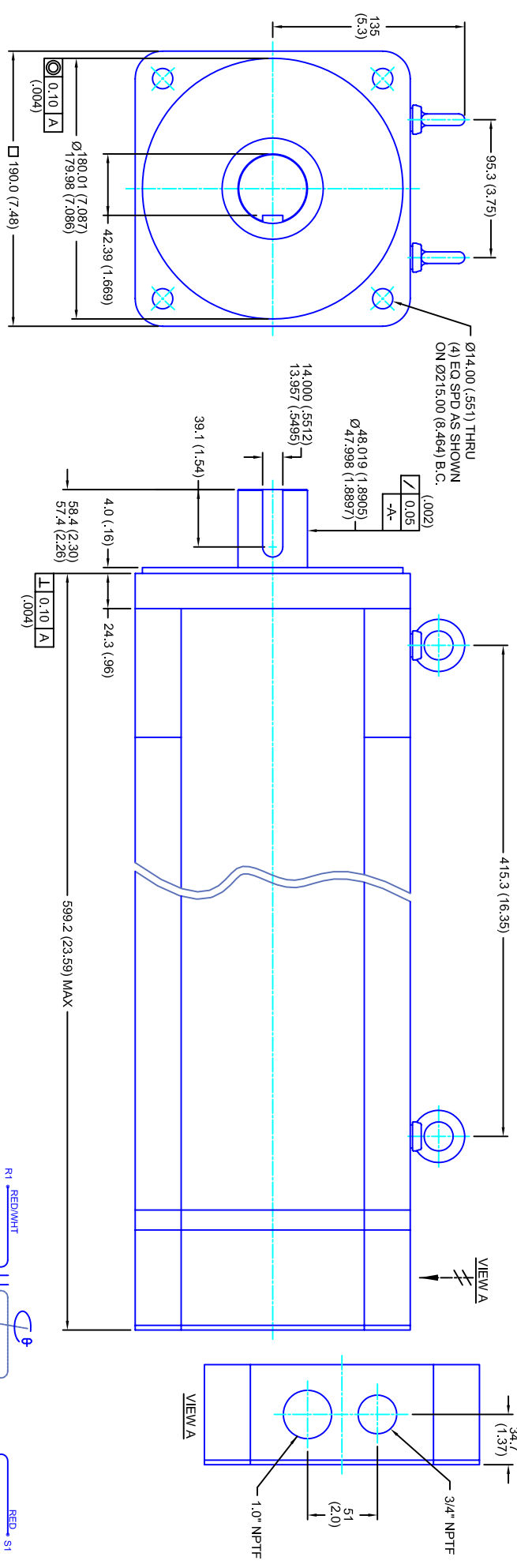


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	QUOTE DRAWING	9/8/04	



- 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 84 KG [185 LBS]

ELECTRICAL DATA

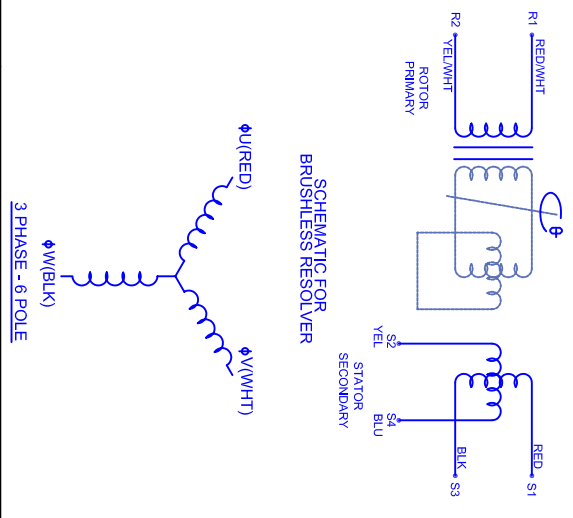
MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	460
AMP TYPE	SINE	460
HORSEPOWER	HP	18.0
KILOWATTS	KW	13.4
MAX OPERATING SPEED	RPM	1500
SPEED @ RATED TORQUE	RPM	1200
*CONTINUOUS RATED TORQUE @ 1200 RPM	IN-LBS(INM)	939[106.1]
*CONTINUOUS STALL TORQUE	IN-LBS(INM)	1092[123.4]
CONTINUOUS LINE CURRENT	AMP(S/RMS/Φ)	32.76[370.2]
PEAK TORQUE	IN-LBS(INM)	21.2
PEAK CURRENT	AMP(S/RMS/Φ)	63.6
MAX THEORETICAL ACCEL.	RAD/SEC ²	23,201
TORQUE SENSITIVITY	KI [N-BS/AMP/RMS/Φ]/(NINM/AMP/RMS/Φ)	51.5[5.82]
BACK EMF (LINE TO LINE)	Vrms/Krpm	324
D.C. RESISTANCE (P-P)	OHMS	.53
INDUCTANCE (P-P)	MILLIHENRIES	7.8
ROTOR INERTIA	Jm	.1412[0.1598] w/ Brk
STATIC FRICTION	TT	13.0[1.5]

CONNECTION CHART

RES/THERM/BRK WIRE LEADS	WIRE FUNCTION	WIRE COLOR	TERMINAL FUNCTION	WIRE COLOR
R1	SHLD	WHT/BLK	1	RED
R2	THERM	WHT	2	Φ V
R3	THERM	WHT	3	Φ V
R4	SIN GND	YEL		BLK
R5	COS GND	BLK		GRN/YEL
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: 2.31 AMPS
 RELEASING TIME: 100 ms
 INERTIA: .00150 IN-LBS-SEC

SCHEMATIC FOR BRUSHLESS RESOLVER



*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON THE MOTOR. THERMOSTAT IN STATOR WILL OPEN IF STATOR TEMPERATURE EXCEEDS 155°C. THIS WILL GIVE YOU ~10% HEADROOM IN THE CONTINUOUS TORQUE RATING BEFORE THERMOSTAT OPENS. MOTOR MOUNTED ON A 356 X 356 X 19MM ALUMINUM HEATSINK.

TOLERANCES UNLESS SPECIFIED

BORER:	= H2	✓
DECIMAL .xxx	± .12 (0.05)	
DECIMAL .xx	± .25 (0.10)	
DECIMAL .x	± .51 (0.20)	
ANGLE	± .40 (0.6)	
ANGLE (MM INCHES)	± .030	

REMOVE ALL BURRS, BREAK SHARP EDGES, ZAMINER (0.10°)

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CUSTOM MOTORS INC

460V/KE=324/MET/RES/NPT/BRK

190MM - 4 STK

CUSTOMER: DRAWN: DFLA SHEET: 1 OF 1

SCALE: 1/2:1 DATE: 9/8/04 DRAWING NO: CM1904R324MKRNPBT REV: 1