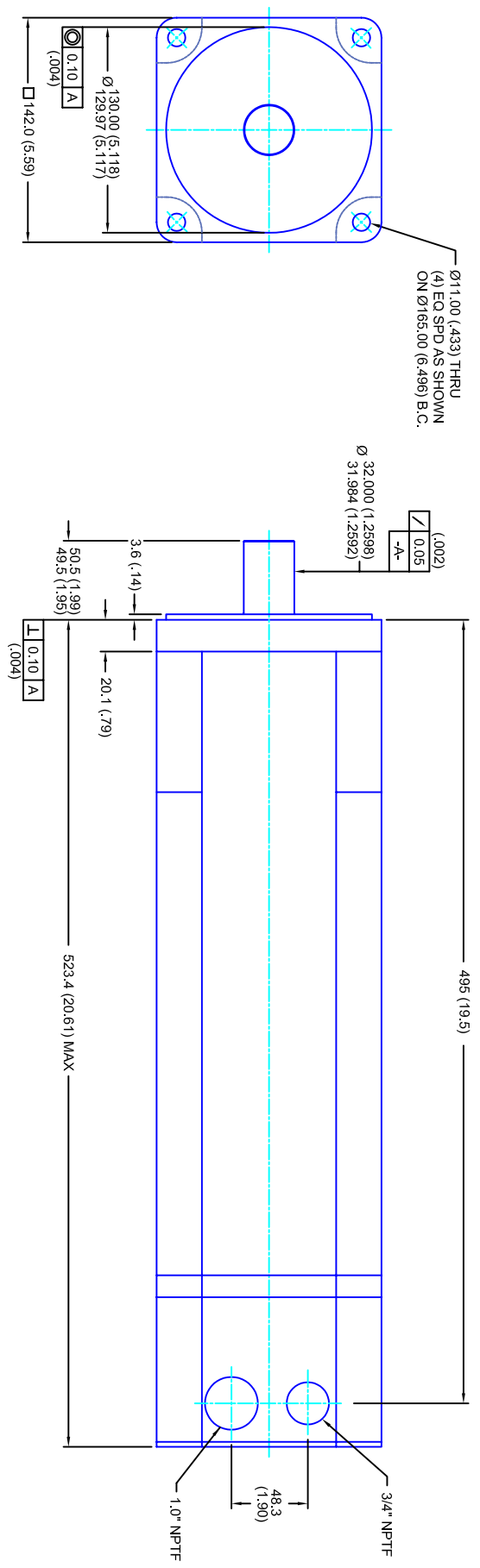


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	QUOTE DRAWING	5/14/04	



- NOTES:**
1. MILLIMETERS (INCHES)
 2. AXIAL LOAD: 23 KG [50 LBS] MAX
 3. RADIAL LOAD: 68 KG [150 LBS] MAX @ 25.4MM [1.00] FROM FACE
 4. MOTOR SEALED TO IP65
 5. MOTOR SHAFT: 416 STAINLESS STEEL
 6. MOTOR FINISH: BLACK MATT FINISH
 7. MOTOR WEIGHT: 39.3 KG [87 LBS]

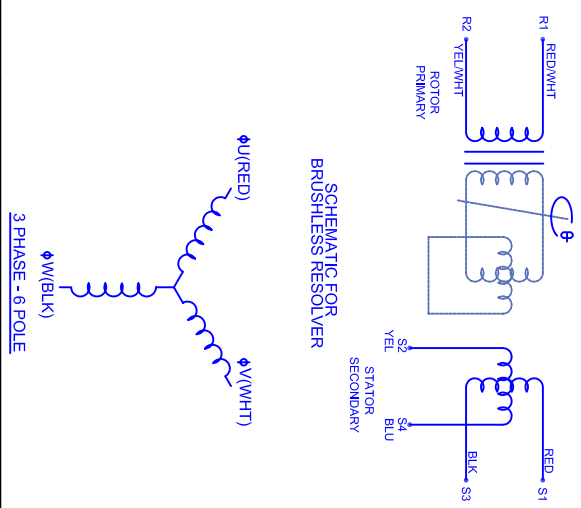
ELECTRICAL DATA

MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	230
AMP TYPE	-	SINE
HORSEPOWER	Hp	10.2
KILOWATTS	KW	7.6
MAX OPERATING SPEED	RPM	2400
SPEED @ RATED TORQUE	RPM	2100
*CONTINUOUS RATED TORQUE @ 2100 RPM	IN-LBS(INM)	306(134.6)
*CONTINUOUS STALL TORQUE	IN-LBS(INM)	360(140.7)
*CONTINUOUS LINE CURRENT	AMPS(RMS/Φ)	28.3
PEAK TORQUE	IN-LBS(INM)	1081(122.1)
PEAK CURRENT	AMPS(RMS/Φ)	85.1
MAX THEORETICAL ACCEL.	RAD/SEC ²	30.886
TORQUE SENSITIVITY	KI [N-LBS/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	.12
INDUCTANCE (P-P)	MILLIHENRIES	1.1
ROTOR INERTIA	IN-LBS-SEC ² [KG-M ²]	.0370(.00418)
STATIC FRICTION	TT	4.2 [0.47]

CONNECTION CHART

RES/THERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR	TERM	WIRE FUNCTION	WIRE COLOR
R1	GND/SHLD	WHT/BLK	1	ΦU	RED
R2	THERM	WHT	2	ΦV	WHT
R3	THERM	WHT	3	ΦW	BLK
R4	SIN GND	YEL	4	PE GND	GRN/YEL
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



*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 305 X 305 X 12.7MM ALUMINUM HEATSINK.

TOLERANCES UNLESS SPECIFIED

BORER: = H2 ✓
 DECIMAL: .xxx ± .12 (.005)
 DECIMAL: .xx ± .25 (.010)
 DECIMAL: .x ± .51 (.020)
 DECIMAL: . ± .40 (.016)
 ANGLE: ± 0.50

REMOVE ALL BURRS/BREAK SHARP EDGES AS SHOWN (0.10°)

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CUSTOM MOTORS INC

142MM - 4 STK

230V/KE=80/MET.-NO KEYWAY/RES/NPT

CUSTOMER: CSS TABLET PRESS DRAWN: DFLA SHEET: 1 OF 1

SCALE: 1/2:1 DATE: 5/14/04 DRAWING NO.: CM1424Q80MNRNPT REV: 1