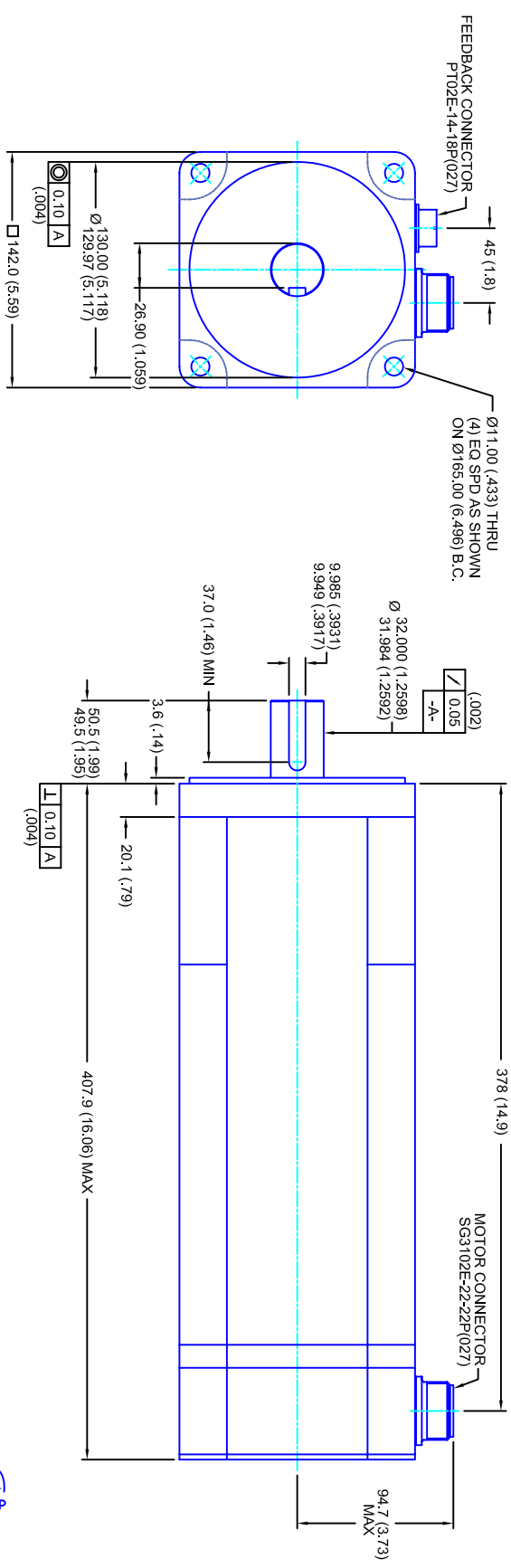


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	QUOTE DRAWING	3/17/05	



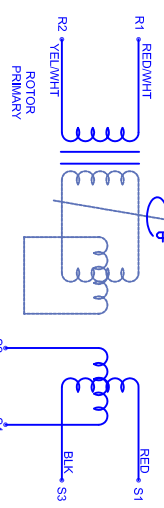
- NOTES:**
1. MILLIMETERS (INCHES)
 2. AXIAL LOAD: 23 KG [50 LBS] MAX
 3. RADIAL LOAD: 68 KG [150 LBS] MAX @ 25.4MM [1.00] FROM FACE
 4. MOTOR SEALED TO IP65
 5. MOTOR SHAFT: 416 STAINLESS STEEL
 6. MOTOR FINISH: BLACK MATT FINISH
 7. MOTOR WEIGHT: 30.4 KG [67 LBS]

ELECTRICAL DATA

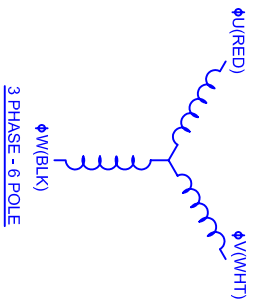
MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	230
AMP TYPE	-	SINE
HORSEPOWER	HP	9.1
KILOWATTS	KW	6.8
MAX OPERATING SPEED	RPM	2700
SPEED @ RATED TORQUE	RPM	2400
*CONTINUOUS RATED TORQUE @ 2400 RPM	IN-LBS(INM)	238(26.9)
*CONTINUOUS STALL TORQUE	IN-LBS(INM)	280(31.5)
*CONTINUOUS LINE CURRENT	AMPS(RMS/Φ)	22.0
PEAK TORQUE	IN-LBS(INM)	840(94.4)
PEAK CURRENT	AMPS(RMS/Φ)	66.1
MAX THEORETICAL ACCEL.	RAD/SEC ²	29,268
TORQUE SENSITIVITY	KI [N-LBS/AMP/RMS/Φ] (N/M/AMP/RMS/Φ)	12.7(1.44)
BACK EMF (LINE TO LINE)	Vrms/Krpm	80
D.C. RESISTANCE (P-P)	OHMS	.17
INDUCTANCE (P-P)	MILLIHENRIES	1.5
ROTOR INERTIA	IN-LBS-SEC ² [KG-M ²]	.0287(.00324)
STATIC FRICTION	TT	3.6(0.41)

CONNECTION CHART

PT02E-14-18P(027)				SG3102E-22-22P(027)			
REST/THERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR		MOTOR WIRE LEADS	WIRE FUNCTION	WIRE COLOR	
A	-	-		A	Φ U	RED	
B	-	-		B	Φ V	WHT	
C	-	-		C	Φ W	BLK	
D	RES SHLD	WHT/BLK		D	PE GND	GRN/YEL	
E	REF	RED/WHT					
F	SIN GND	YEL					
G	COS GND	BLK					
H	SIN	BLU					
J	-	-					
K	-	-					
L	-	-					
M	-	-					
N	THERM	WHT					
P	-	-					
R	REF GND	YEL/WHT					
S	COS	RED					
T	-	-					
U	THERM	WHT					



SCHEMATIC FOR BRUSHLESS RESOLVER



142MM - 3 STK
CUSTOM MOTORS INC

TOLERANCES UNLESS SPECIFIED			
BORER:	= H12	✓	
DRILL:	= J12	✓	
DECIMAL .xxx	± .12 (0.05)		
DECIMAL .xx	± .25 (0.10)		
DECIMAL .x	± .51 (0.20)		
ANGLE	± .03		
ANGLE (MM (INCHES))	± .03		

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

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CUSTOMER: -

SCALE: 1/2:1

DATE: 6/16/04

DRAWING NO.: CM14230Q80MKRCS

DRAWN: DFLA

SHEET: 1 OF 1

REV: 1