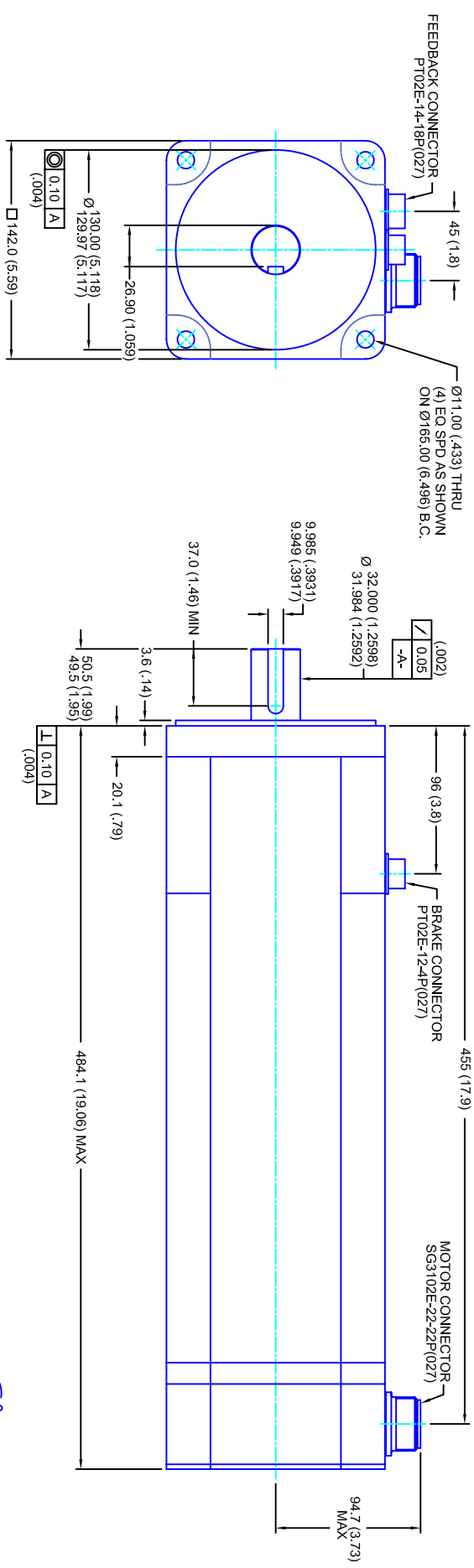


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	QUOTE DRAWING	3/17/05	



- 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: 35.4 KG [78 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 STALL TORQUE @ 2400 RPM	IN-LBS(INM)	238(26.9)
*CONTINUOUS LINE CURRENT	IN-LBS(INM)	280(31.6)
CONTINUOUS TORQUE	AMP(S/RMS/Φ)	22.0
PEAK TORQUE	IN-LBS(INM)	840(94.4)
PEAK CURRENT	AMP(S/RMS/Φ)	66.1
MAX THEORETICAL ACCEL.	RAD/SEC ²	28,866
TORQUE SENSITIVITY	KI [N-LBS/AMP/RMS/Φ] [INM/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]	.029(1.00329) w Brk
STATIC FRICTION	TT	3.6(0.41)

CONNECTION CHART

REST/HERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR
A	-	-
B	-	-
C	-	-
D	RES SHLD	WHT/BLK
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

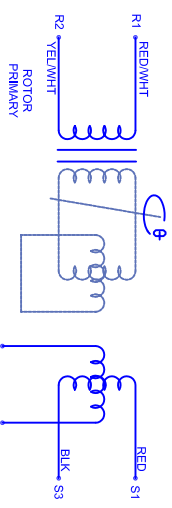
SG3102E-22-22P(027)

MOTOR WIRE LEADS	WIRE FUNCTION	WIRE COLOR
A	ΦU	RED
B	ΦV	WHT
C	ΦW	BLK
D	PE GND	GRN/YEL

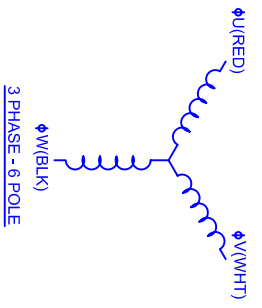
PT02E-12-4P(027)

BRAKE WIRE LEADS	WIRE FUNCTION	WIRE COLOR
A	BRK (+)	RED
B	BRK (-)	BLK
C	-	-
D	-	-

BRAKE INFO:
 INPUT VOLTAGE: 24 VDC
 HOLDING FORCE: 40.7 Nm [360 IN-LBS] MAX
 CURRENT DRAW: 1.13 AMPS
 RELEASING TIME: 100 ms
 INERTIA: .00041 IN-LBS-SEC²



SCHEMATIC FOR BRUSHLESS RESOLVER



142MM - 3 STK
230V/KE=80/MET/RES/CONN/BRK

TOLERANCES UNLESS SPECIFIED							
BORER:	= H12 ✓						
DECIMAL .xxx	± .12 (005)						
DECIMAL .xx	± .25 (010)						
DECIMAL .x	± .51 (020)						
ANGLE (MM/INCHES)	± .40 (016)						
ANGLE (INCHES)	± .030						
REMOVE ALL BURRS/BREAK SHARP EDGES AS SHOWN (010)							
FINISH:	AS SHOWN						
WATERFALL:	AS SHOWN						
SCALE	DATE	DRAWING NO.	CUSTOMER:	DRAWN:	DFLA	SHEET: 1 OF 1	REV.
1/2:1	6/17/04	CM1423Q80MKRCSB	-				1

*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.