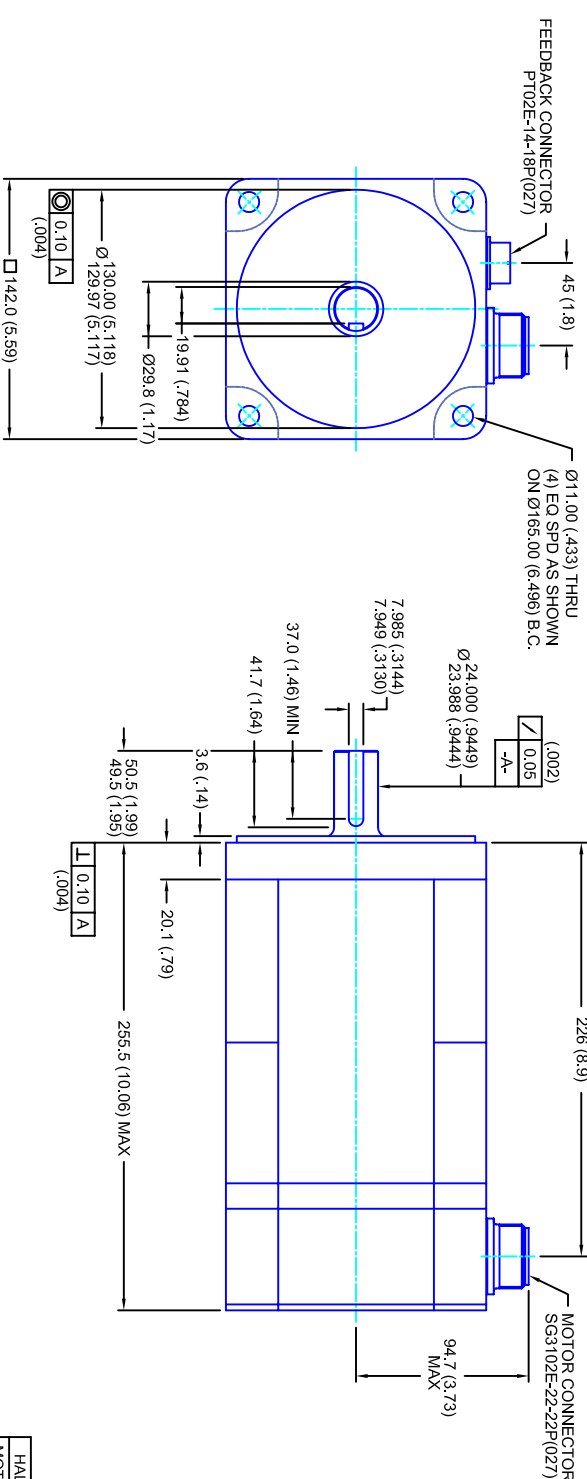
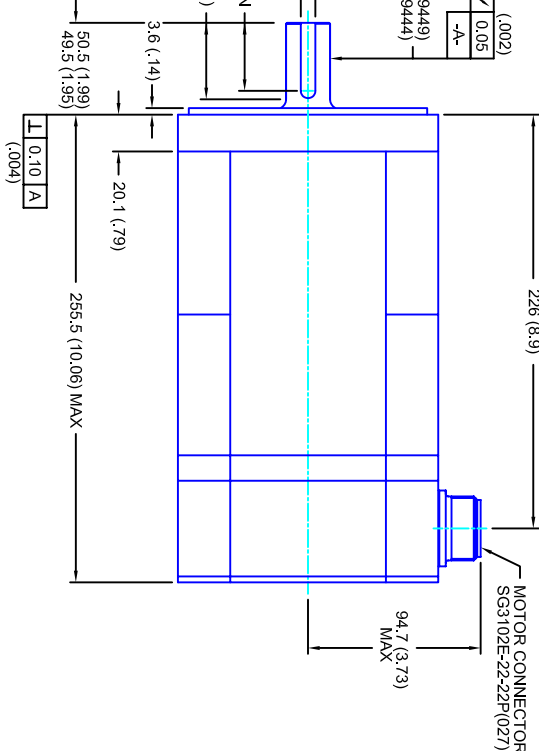


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	RELEASE DRAWING	12/7/05	



- 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: 15 KG [33 LBS]

ELECTRICAL DATA		VALUES
MOTOR PARAMETERS	UNITS/MEASURE	
VOLTAGE	VOLTS-AC	230
AMP TYPE	-	SINE
HORSEPOWER	HP	4.4
KILOWATTS	KW	3.3
MAX OPERATING SPEED	RPM	2700
SPEED @ RATED TORQUE	RPM	2400
*CONTINUOUS RATED TORQUE @ 2400 RPM	IN-LBS(IN) / N-M	115(13.0) / 1.7
*CONTINUOUS STALL TORQUE	IN-LBS(IN) / N-M	130(14.7) / 1.7
CONTINUOUS LINE CURRENT	AMP(S)/RMS(Φ)	39(14.1) / 35.1
PEAK TORQUE	IN-LBS(IN) / N-M	390(44.1) / 35.1
PEAK CURRENT	AMP(S)/RMS(Φ)	35.1
MAX THEORETICAL ACCEL.	RAD/SEC ²	35,135
TORQUE SENSITIVITY	KI [N-BS/AMP/RMS(Φ)] / (N-M/AMP/RMS(Φ))	11.1 [1.26]
BACK EMF (LINE TO LINE)	Vrms/Krpm	70
D.C. RESISTANCE (P-P)	OHMS	.54
INDUCTANCE (P-P)	MILLIHENRIES	3.5
ROTOR INERTIA	IN-LBS-SEC ² [KG-M ²]	.0111 [1.00125]
STATIC FRICTION	TT	2.4 [0.27]



ENCODER INFO:

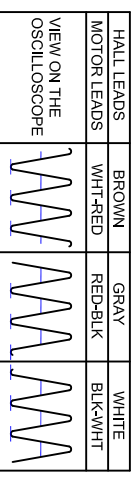
5V - 4096L COMMUTATING

CONNECTION CHART

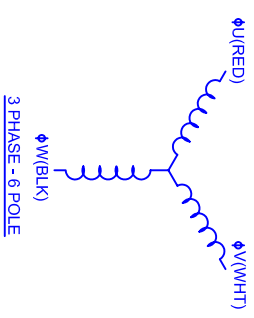
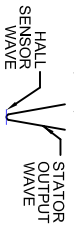
PT02E-14-18P(027)

SG3102E-22-22P(027)

ENC/TERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR	MOTOR WIRE LEADS	WIRE FUNCTION	WIRE COLOR
A	THERM	WHT	A	Φ U	RED
B	CH A	BLU	B	Φ V	WHT
C	CH A	BLU/BLK	C	Φ W	BLK
D	GND CABLE	SHLD	D	PE GND	GRN/YEL
E	CH U	BRN			
F	CH V	GRY			
G	CH W	WHT			
H	CH W	WHT/BLK			
J	-	-			
K	+5VDC	RED			
L	THERM	WHT			
M	CH Z	YEL			
N	CH B	YEL			
P	CH B	GRN			
R	CH B	GRN/BLK			
S	CH V	BRN/BLK			
T	CH V	GRY/BLK			
U	CH Z	YEL/BLK			



MOTOR ROTATION IS COUNTER CLOCKWISE (CCW) LOOKING AT MOUNTING FACE END



TOLERANCES UNLESS SPECIFIED

BORER: = H12 ✓
SURFACE FINISH: = 63 Ra ✓
DECIMAL .xxx ±.12 (005)
DECIMAL .xx ±.25 (010)
DECIMAL .x ±.51 (020)
ANGLE ° ±.01 (016)
ANGLE °/MIN (INCHES) ±.030

REMOVE ALL BURRS/BREAK SHARP EDGES AS SHOWN (010)

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CUSTOM MOTORS INC

142MM - 1 STK

230V/KE=70/MET/4096/CONN

CUSTOMER: DRAWN: DFLA SHEET: 1 OF 1

SCALE: 1/2:1 DATE: 3/8/05 DRAWING NO: CM1421QZ0MK4096CS REV: 1