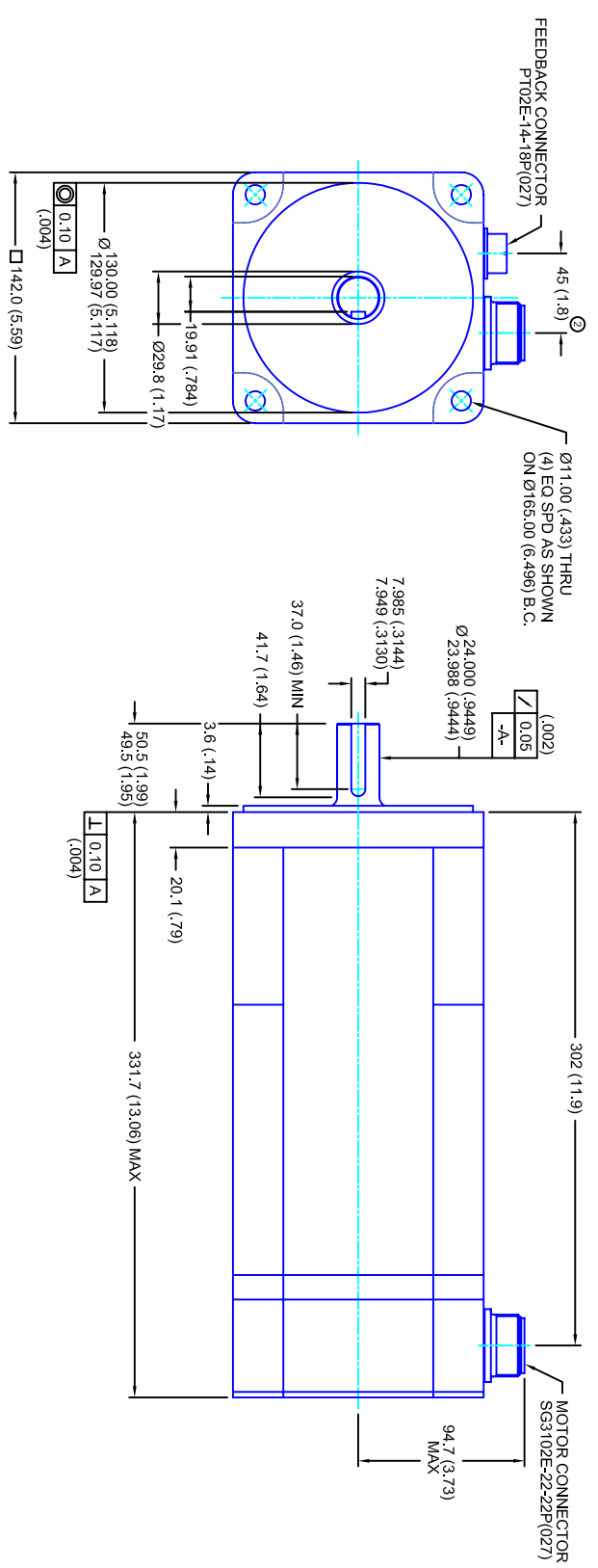


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	QUOTE DRAWING	4/7/04	
2	CORRECT ELECTRICAL VALUES	6/16/04	
3	IND CHGD FROM 3.9 TO 4.1	10/27/04	



- 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: 22.7 KG [50 LBS]

ELECTRICAL DATA

MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	230
AMP TYPE	-	SINE
HORSEPOWER	HP	4.5
KILOWATTS	KW	3.4
MAX OPERATING SPEED	RPM	1750
SPEED @ RATED TORQUE	RPM	1500
*CONTINUOUS RATED TORQUE @ 1500 RPM	IN-LBS(INM)	190(21.5)
*CONTINUOUS STALL TORQUE	IN-LBS(INM)	210(23.7)
CONTINUOUS LINE CURRENT	AMPS(RMS/Φ)	11.5
PEAK TORQUE	IN-LBS(INM)	630(71.2)
PEAK CURRENT	AMPS(RMS/Φ)	34.4
MAX THEORETICAL ACCEL.	RAD/SEC ²	31,980
TORQUE SENSITIVITY	KI [N-BS/AMP/RMS/Φ]/(MM/AMP/RMS/Φ)	18.3(2.06)
BACK EMF (LINE TO LINE)	Vrms/Krpm	115
D.C. RESISTANCE (P-P)	OHMS	.50
INDUCTANCE (P-P)	MILLIHENRIES	4.1
ROTOR INERTIA	IN-LBS-SEC ² [KG-M ²]	.0197(.00223)
STATIC FRICTION	TT	3.0(0.34)

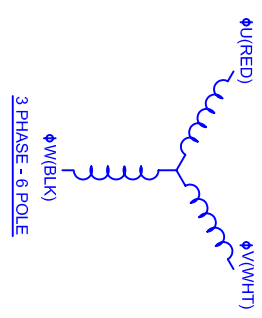
ENCODER INFO:
SV - 1000L COMMUTATING

CONNECTION CHART
PT02E-14-18P(027)

ENC/OTHERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR
A	THERM	WHT
B	CH A	BLU
C	CH A	BLU/BLK
D	GND CABLE	SHLD
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	GRN
P	CH BL	GRN/BLK
R	CH U	BRN/BLK
S	CH V	GRY/BLK
T	GND	BLK
U	CH Z	YEL/BLK

SG3102E-22-22P(027)

MOTOR WIRE LEADS	WIRE FUNCTION	WIRE COLOR
A	Φ U	RED
B	Φ V	WHT
C	Φ W	BLK
D	PE GND	GRN/YEL



CUSTOM MOTORS INC

142MM - 2 STK
230V/KE=115/MET/1000/CONN

TOLERANCES UNLESS SPECIFIED			
SURFACE FINISH:	= 63 Ra ✓		
BORER:	= H12		
DECIMAL .xxx	± .12 (.005)		
DECIMAL .xx	± .25 (.010)		
DECIMAL .x	± .51 (.020)		
ANGLE	± .40 (.016)		
ANGLE (MM (INCHES))	± .030		

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

PROPRIETARY RIGHTS OF CUSTOM MOTORS ARE INCLUDED IN THE INFORMATION DISCLOSED HEREIN. THIS INFORMATION IS PROVIDED AS A SERVICE TO OUR CUSTOMERS AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

CUSTOMER: - - - - - DRAWING NO. CM1422Q115MK1000CS

SCALE: 1/2":1 DATE: 4/7/04 DRAWING NO. CM1422Q115MK1000CS

REVISION: 3