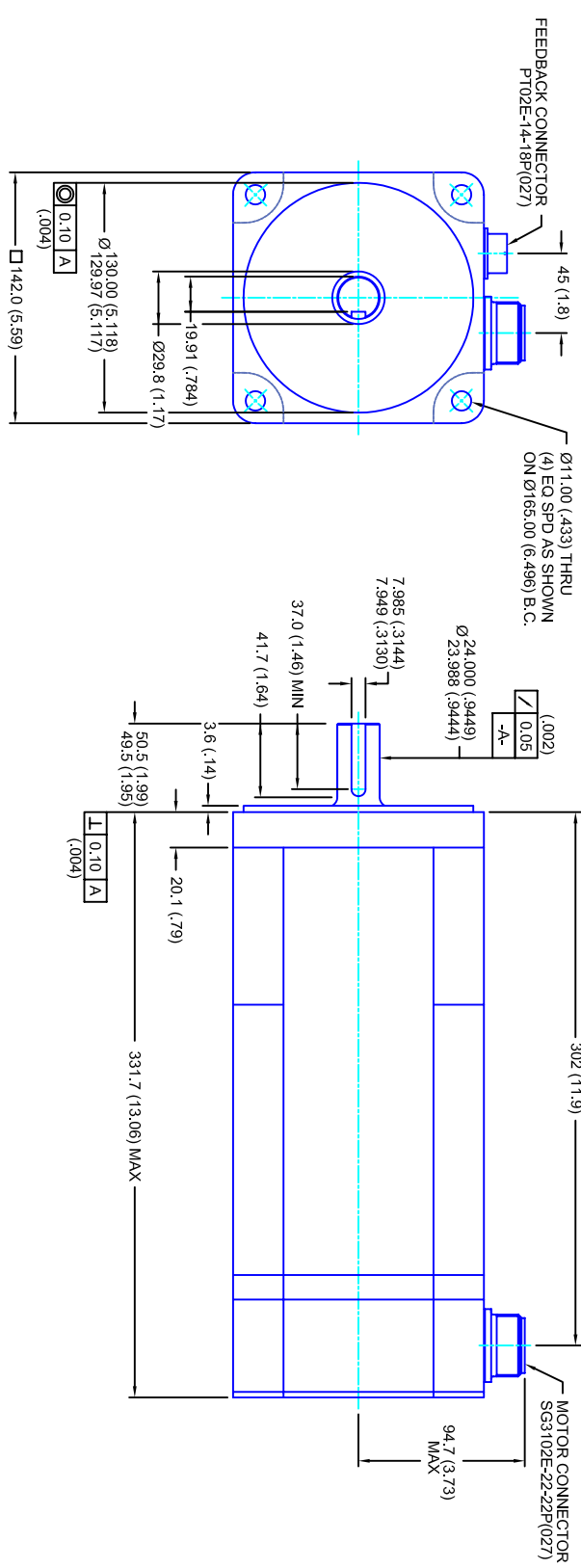


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	RELEASE DRAWING	7/12/04	

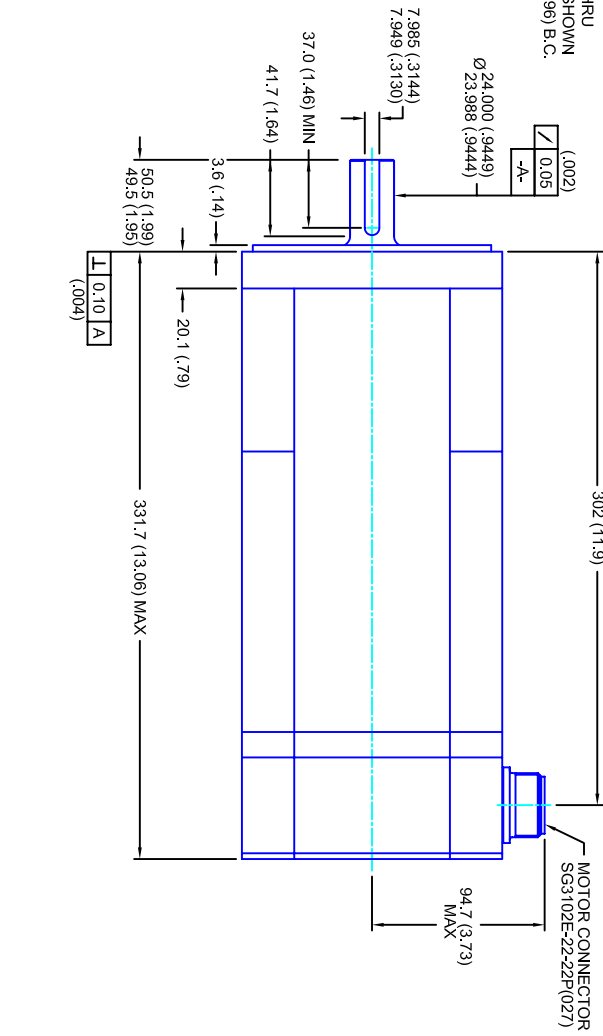


- NOTES:**
1. MILLIMETERS (INCHES)
 2. AXIAL LOAD: 23 KG [50 LBS] MAX
 3. RADIAL LOAD: 68 LBS [150 LBS] MAX @ 25.4MM [1.00] FROM FACE
 4. MOTOR SEALED TO IP65
 5. MOTOR SHAFT: 416 STAINLESS STEEL
 6. MOTOR FINISH: BLACK MATT FINISH
 7. MOTOR WEIGHT: 22.7 KG [50 LBS]

ELECTRICAL DATA

MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	230
AMP TYPE	-	SINE
HORSEPOWER	HP	6.8
KILOWATTS	KW	5.1
MAX OPERATING SPEED	RPM	2700
SPEED @ RATED TORQUE	RPM	2400
*CONTINUOUS RATED TORQUE @ 2400 RPM	IN-LBS[INm]	179[20.2]
*CONTINUOUS STALL TORQUE	IN-LBS[INm]	210[23.7]
CONTINUOUS LINE CURRENT	AMPS[RMS/Φ]	18.9
PEAK TORQUE	IN-LBS[INm]	630[71.2]
PEAK CURRENT	AMPS[RMS/Φ]	56.8
MAX THEORETICAL ACCEL.	RAD/SEC ²	31,980
TORQUE SENSITIVITY	IN-LBS/AMP[RMS/Φ] / IN-AMP/[RMS/Φ]	11.1 [1.26]
BACK EMF (LINE TO LINE)	Vrms/Krpm	70
D.C. RESISTANCE (P-P)	OHMS	.20
INDUCTANCE (P-P)	MILLIHENRIES	1.6
ROTOR INERTIA	IN-LBS-SEC ² [KG-M ²]	.0197 [0.00223]
STATIC FRICTION	TT	3.0 [0.34]

ENCODER INFO:
SV - 2000L COMMUTATING

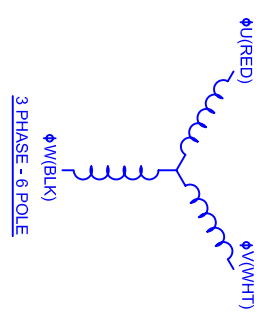


CONNECTION CHART
PT02E-14-18P(027)

ENC/TERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR	WIRE COLOR
A	THERM	WHT	WHT
B	CH A	BLU	RED
C	CH A	BLU/BLK	Φ V
D	GND CABLE	SHLD	BLK
E	CH U	BRN	Φ W
F	CH V	GRY	GRN/YEL
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 VI	BRN/BLK	
S	CH VI	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=70/MET/2000/CONN

TOLERANCES UNLESS SPECIFIED

BORE: = H7 ✓
SURFACE FINISH: = 63 Ra ✓
HOLE: = H7 ✓
DEGREE: .xxx = .12 (005)
DECIMAL .xxx = .25 (010)
DECIMAL .x = .51 (020)
DECIMAL .xx = 1.01 (040)
DECIMAL .x = 1.01 (040)
ANGLE: = 0.50

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

PROPRIETARY RIGHTS OF CUSTOMER NOT BE REMOVED OR INFRINGED ON 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. CM1422070MK2000CS SCALE: 1/2:1 DATE: 7/12/04

FINISH: MATERIAL: DRAWN: DFLA SHEET: 1 OF 1 REV: 1