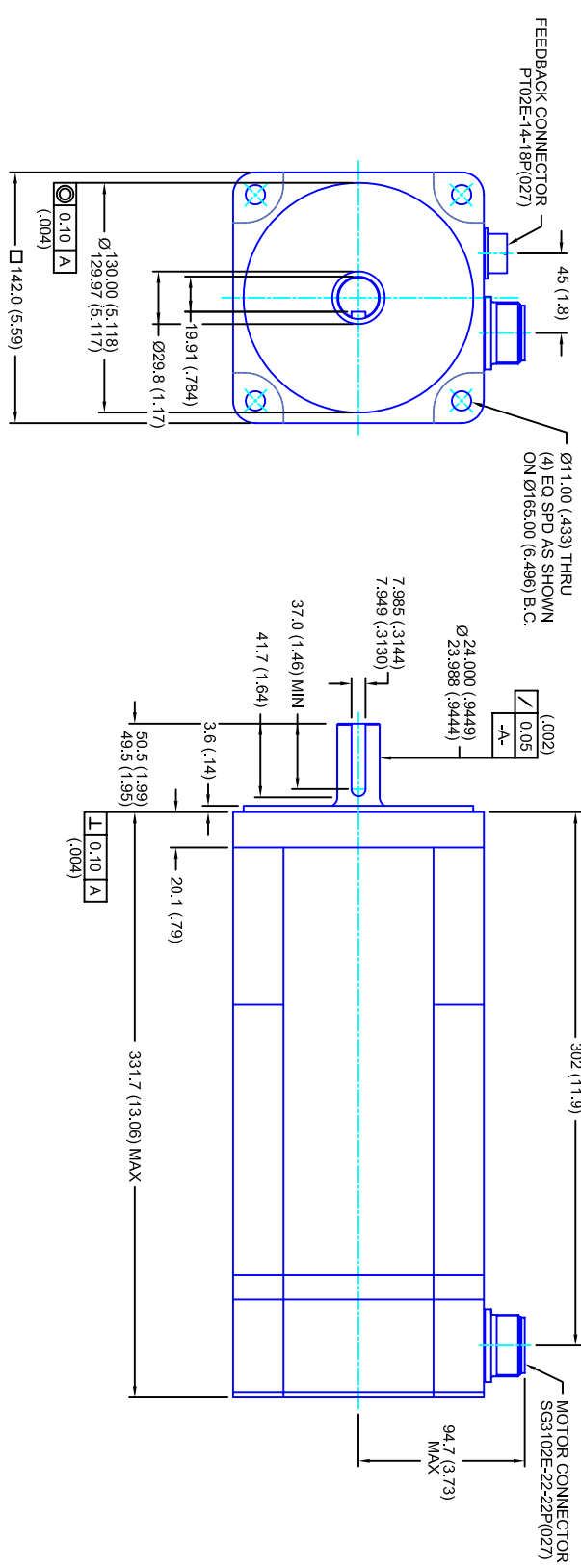


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	QUOTE DRAWING	12/15/05	



- 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: 22.7 KG [50 LBS]

ELECTRICAL DATA		
MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	460
AMP TYPE	-	SINE
HORSEPOWER	HP	7.5
KILOWATTS	KW	5.7
MAX OPERATING SPEED	RPM	3400
SPEED @ RATED TORQUE	RPM	2800
*CONTINUOUS RATED TORQUE @ 2800 RPM	IN-LBS(INM)	170(19.2)
*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-LS/AMP/RMS/Φ]/(IN-AMP/RMS/Φ)	18.3(2.06)
BACK EMF (LINE TO LINE)	V/MS/KRPM	115
D.C. RESISTANCE (P-P)	OHMS	0.5
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 - 2048L COMMUTATING

CONNECTION CHART
PT02E-14-18P(027)

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

SG3102E-22-22P(027)

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

TOLERANCES UNLESS SPECIFIED

BORER: = H12 ✓
SURFACE FINISH: = 63 Ra ✓
DECIMAL .xxx ±.12 (.005)
DECIMAL .xx ±.25 (.010)
DECIMAL .x ±.51 (.020)
FRACTION ±.001 (.001)
ANGLE ±.030

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

CUSTOM MOTORS INC
142MM - 2 STK
460V/KE=115/MET/2048/CONN

PROPRIETARY RIGHTS OF CUSTOM MOTORS ARE INCLUDED IN THE INFORMATION DISCLOSED HEREIN. THIS INFORMATION DOES NOT 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: - DRAWN: DFLA SHEET: 1 OF 1

SCALE: 1/2:1 DATE: 9/7/04 DRAWING NO: CM1422R115MK2048CS REV: 1

