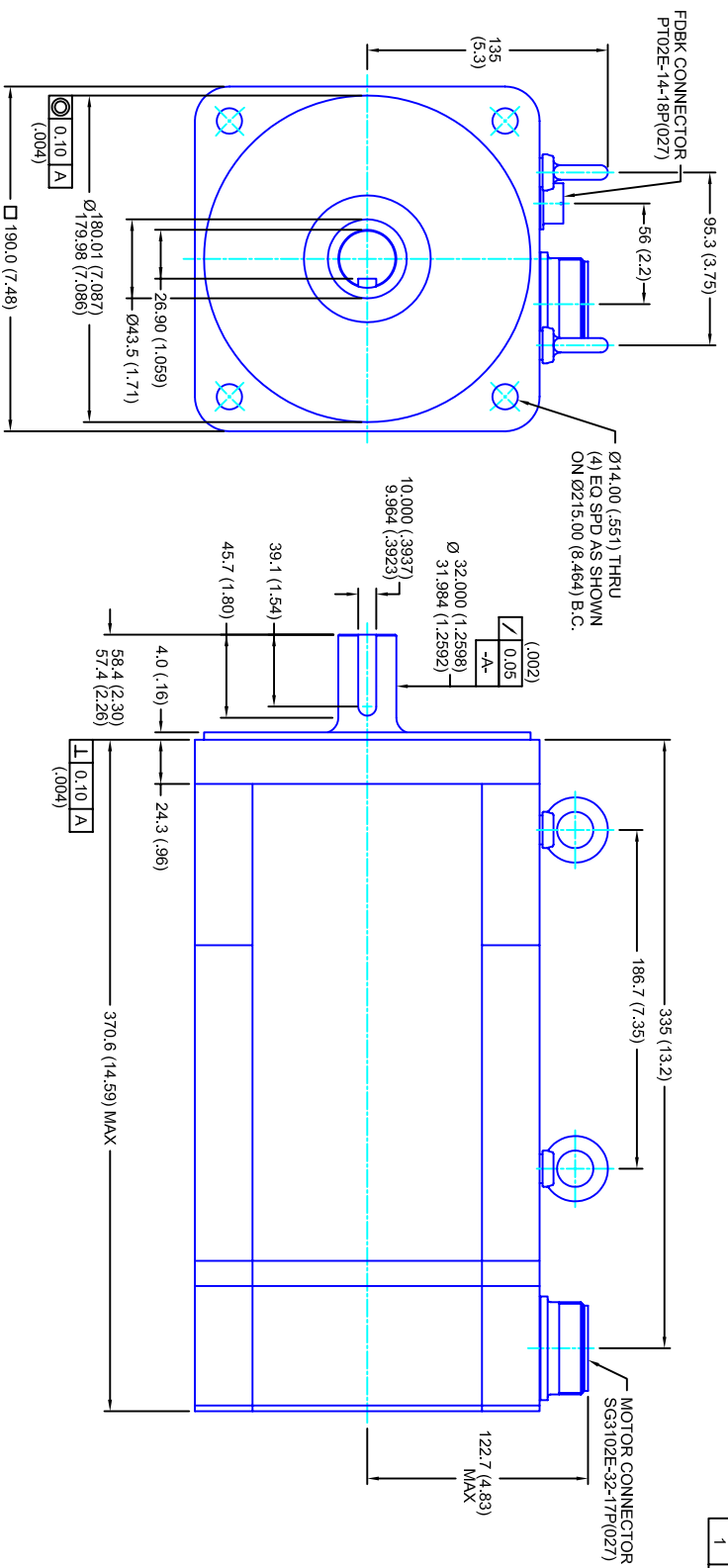


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	RELEASE DRAWING	12/1/04	



- NOTES:**
1. MILLIMETERS (INCHES)
 2. AXIAL LOAD: 45 KG [100 LBS] MAX
 3. RADIAL LOAD: 113 KG [250 LBS] MAX @ 25.4MM [1.00] FROM FACE
 4. MOTOR SEALED TO IP65
 5. MOTOR SHAFT: G&P STEEL, GRADE 1144
 6. MOTOR FINISH: BLACK MATT FINISH
 7. MOTOR WEIGHT: 44 KG [98 LBS]

ELECTRICAL DATA

MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	230
AMP TYPE	-	SINE
HORSEPOWER	HP	20.9
KILOWATTS	KW	15.6
MAX OPERATING SPEED	RPM	3000
SPEED @ RATED TORQUE	RPM	2400
*CONTINUOUS RATED TORQUE @ 2400 RPM	IN-LBS(IN) / N-M	550(62.1)
*CONTINUOUS STALL TORQUE	IN-LBS(IN) / N-M	640(72.3)
*CONTINUOUS LINE CURRENT	AMPS(RMS/Φ)	50.4
PEAK TORQUE	IN-LBS(IN) / N-M	1780(201.1)
PEAK CURRENT	AMPS(RMS/Φ)	140.2
MAX THEORETICAL ACCEL.	RAD/SEC ²	23.733
TORQUE SENSITIVITY	KI [N-BS/AMP/RMS/Φ] / (N-M/AMP/RMS/Φ)	12.7(1.44)
BACK EMF (LINE TO LINE)	Vrms/Krpm	80
D.C. RESISTANCE (P-P)	OHMS	.09
INDUCTANCE (P-P)	MILLIHENRIES	1.0
ROTOR INERTIA	IN-LBS-SEC ² / (KG-M ²)	.0750(.00847)
STATIC FRICTION	TT	9.8(1.1)

ENCODER INFO:

SV - 3000L COMMUTATING

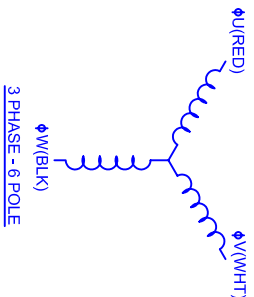
CONNECTION CHART

PT02E-14-18P(027)

ENCTHERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR
PIN A	CH A	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 BI	GRN/BLK
PIN R	CH UI	BRN/BLK
PIN S	CH VI	GRY/BLK
PIN T	GND	BLK
PIN U	CH ZI	YEL/BLK

SG3102E-32-17P(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



CUSTOM MOTORS INC

190MM - 2 STK
230V/KE-80/MET/3000/CONN

TOLERANCES UNLESS SPECIFIED			
BORER:	= H12	✓	
SURFACE FINISH:	= 63 Ra	✓	
DECIMAL .xxx	± .12 (0.05)		
DECIMAL .xx	± .25 (0.10)		
DECIMAL .x	± .51 (0.20)		
DECIMAL .	± .40 (0.16)		
ANGLE (MM/INCHES)	± .030		

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

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CUSTOMER: -

SCALE: 1/2:1

DATE: 2/21/04

DRAWING NO.: CM1902Q80MK3000CS

DRAWN: DFLA

SHEET: 1 OF 1

REV: 1