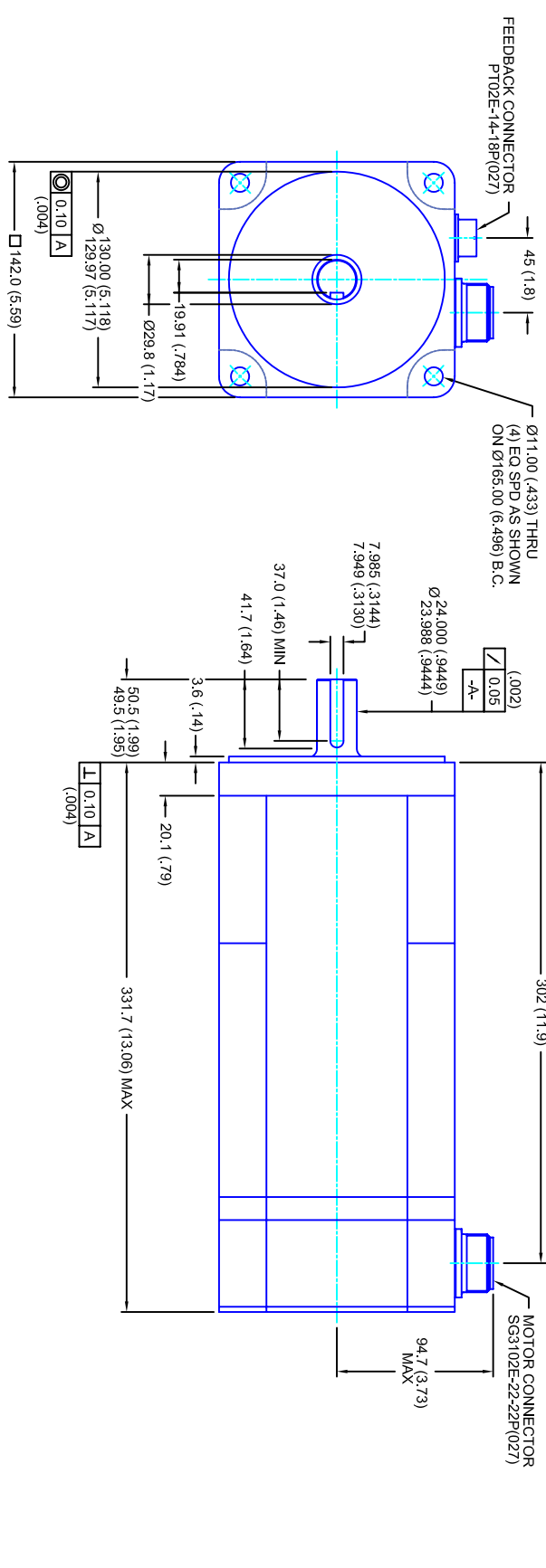


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	RELEASE DRAWING	6/16/04	



- 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	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 <sup>2</sup>	31,980
TORQUE SENSITIVITY	KI [N-LBS/AMP/RMS/Φ] (NINM/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 <sup>2</sup> [KG-M <sup>2</sup> ]	.0197 [0.00223]
STATIC FRICTION	TT	3.0 [0.34]

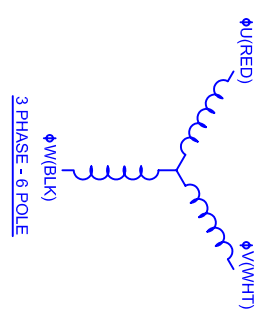
**ENCODER INFO:**  
SV - 2048L COMMUTATING

**CONNECTION CHART**  
PT02E-14-18P(027)

ENC/TERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR
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 B	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



142MM - 2 STK  
230V/KE=70/MET/2048/CONN

**TOLERANCES UNLESS SPECIFIED**

BORER: = H2 ✓  
SURFACE FINISH: = 63 Ra ✓  
DECIMAL .xxx = ±.12 (005)  
DECIMAL .xx = ±.25 (010)  
DECIMAL .x = ±.51 (020)  
ANGLE (°) = ±.40 (016)  
ANGLE (MM (INCHES)) = ±.08

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

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SCALE: 1/2:1 DATE: 5/13/04 DRAWING NO. CM1422070MK2048CS

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