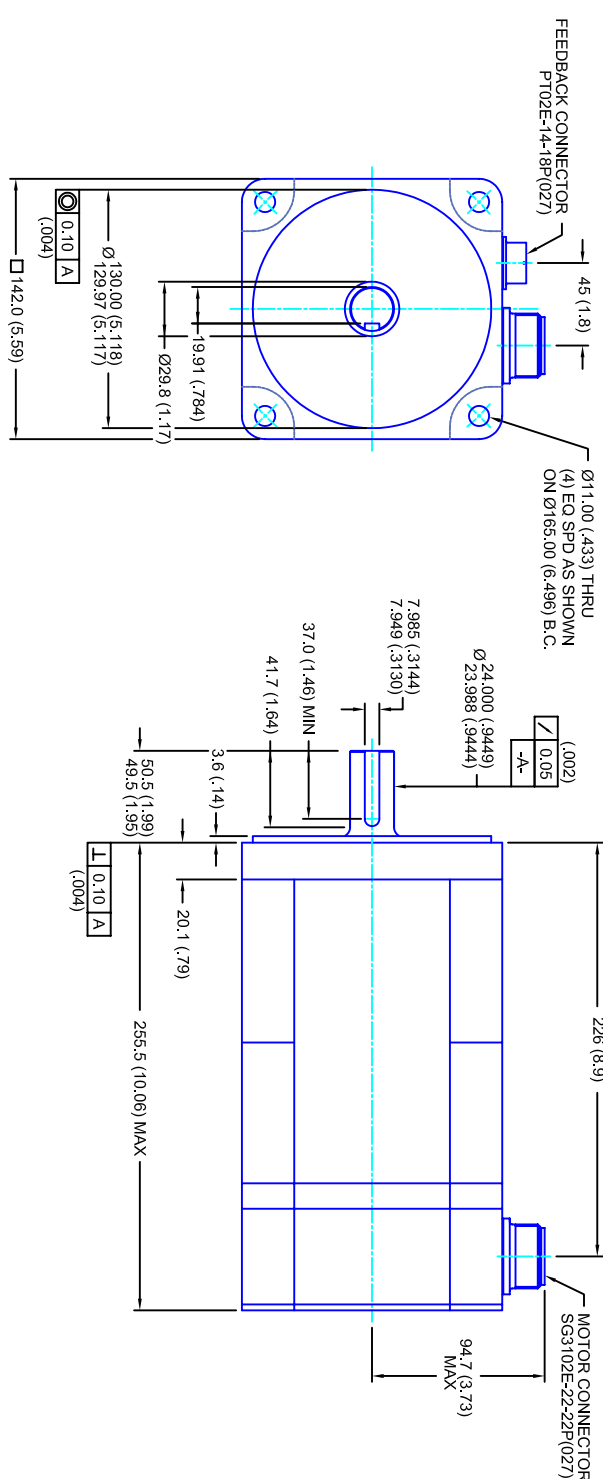


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	QUOTE DRAWING	7/14/04	



- 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: 15 KG [ 33 LBS ]

**ELECTRICAL DATA**

MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	230
AMP TYPE	-	SINE
HORSEPOWER	HP	2.9
KILOWATTS	KW	2.1
MAX OPERATING SPEED	RPM	1750
SPEED @ RATED TORQUE	RPM	1500
*CONTINUOUS RATED TORQUE @ 1500 RPM	IN-LBS[INm]	120[13.6]
*CONTINUOUS STALL TORQUE	IN-LBS[INm]	130[14.7]
CONTINUOUS LINE CURRENT	AMPS[RMS/Φ]	7.1
PEAK TORQUE	IN-LBS[INm]	390[44.1]
PEAK CURRENT	AMPS[RMS/Φ]	21.3
MAX THEORETICAL ACCEL.	RAD/SEC <sup>2</sup>	35,135
TORQUE SENSITIVITY	IN-LBS/AMP[RMS/Φ] / IN-AMP[RMS/Φ]	18.3[2.06]
BACK EMF (LINE TO LINE)	Vrms/Krpm	115
D.C. RESISTANCE (P-P)	OHMS	1.5
INDUCTANCE (P-P)	MILLIHENRIES	10
ROTOR INERTIA	IN-LBS-SEC <sup>2</sup> [KG-M <sup>2</sup> ]	.0111[0.0125]
STATIC FRICTION	Tt	2.4[0.27]

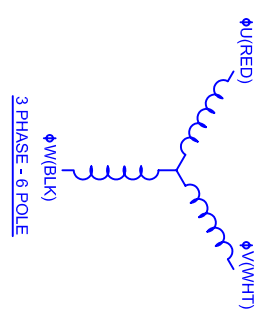
**ENCODER INFO:**  
5V - 1000L COMMUTATING

**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 UL	BRN/BLK
S	CH VL	GRY/BLK
T	GND	BLK
U	CH ZL	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 - 1 STK

230V/KE=115/MET/1000/CONN

TOLERANCES UNLESS SPECIFIED	
BORER:	= H2
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 PER (010)

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CUSTOMER: EASTERN MACHINE DRAWN: DFLA SHEET: 1 OF 1

SCALE: 1/2:1 DATE: 4/13/04 DRAWING NO: CM1421Q115MK1000CS REV: 1