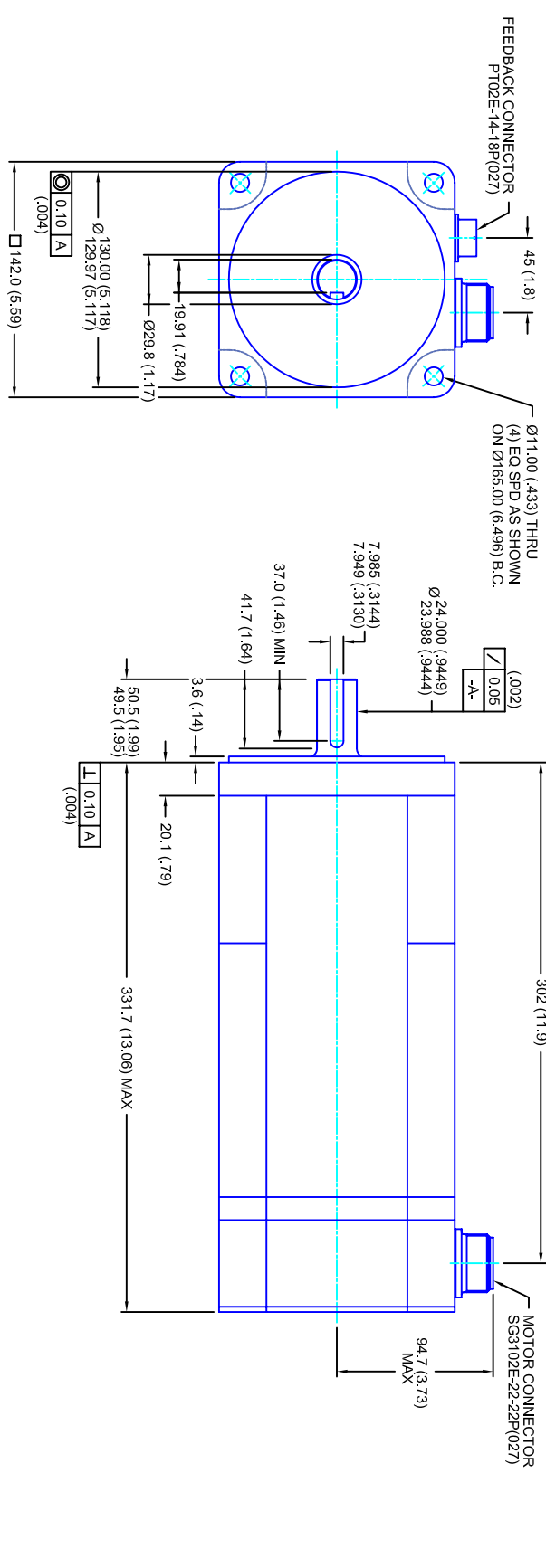


| REVISIONS | | | |
|-----------|-----------------|---------|------|
| REV | DESCRIPTION | DATE | APPD |
| 1 | RELEASE DRAWING | 8/30/05 | |



- 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 | | VALUES |
|-------------------------------------|--|---------------|
| MOTOR PARAMETERS | UNITS/MEASURE | |
| 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 | KI [N-BS/AMP/RMS/Φ]/(MM/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[.00223] |
| STATIC FRICTION | TT | 3.0[0.34] |

CONNECTION CHART

PT02E-14-18P(027)

| ENCTHERM 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 |

TOLERANCES UNLESS SPECIFIED

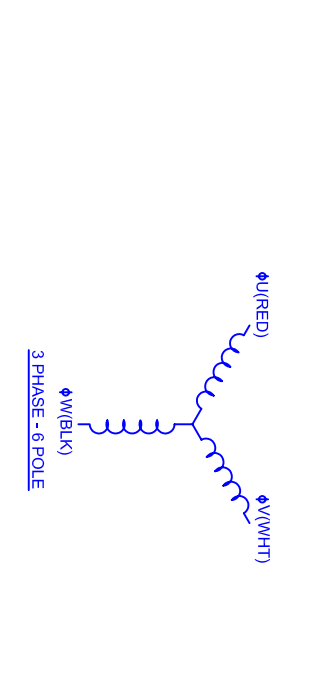
BORER: = H12 ✓
 SURFACE FINISH: = 63 Ra ✓
 DECIMAL .xxx = ±.12 (0.05)
 DECIMAL .xx = ±.25 (0.10)
 DECIMAL .x = ±.51 (0.20)
 ANGLE = ±.40 (0.16)
 DIM (INCHES) = ±.030

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

PROPRIETARY RIGHTS OF CUSTOMER NOT BE ABANDONED BY THE INFORMATION DISCLOSED HEREIN. THIS INFORMATION IS PROVIDED AS A SERVICE TO OUR CUSTOMERS. CUSTOMER SPECIFICATIONS TAKE PRECEDENCE OVER ALL OTHERS.

CUSTOMER: - DRAWING NO. CM1422Q70MK1000CS DRAWN: DFLA SHEET: 1 OF 1

SCALE: 1/2:1 DATE: 8/30/05



CUSTOM MOTORS INC

142MM - 2 STK

230V/KE=70/MET/1000/CONN