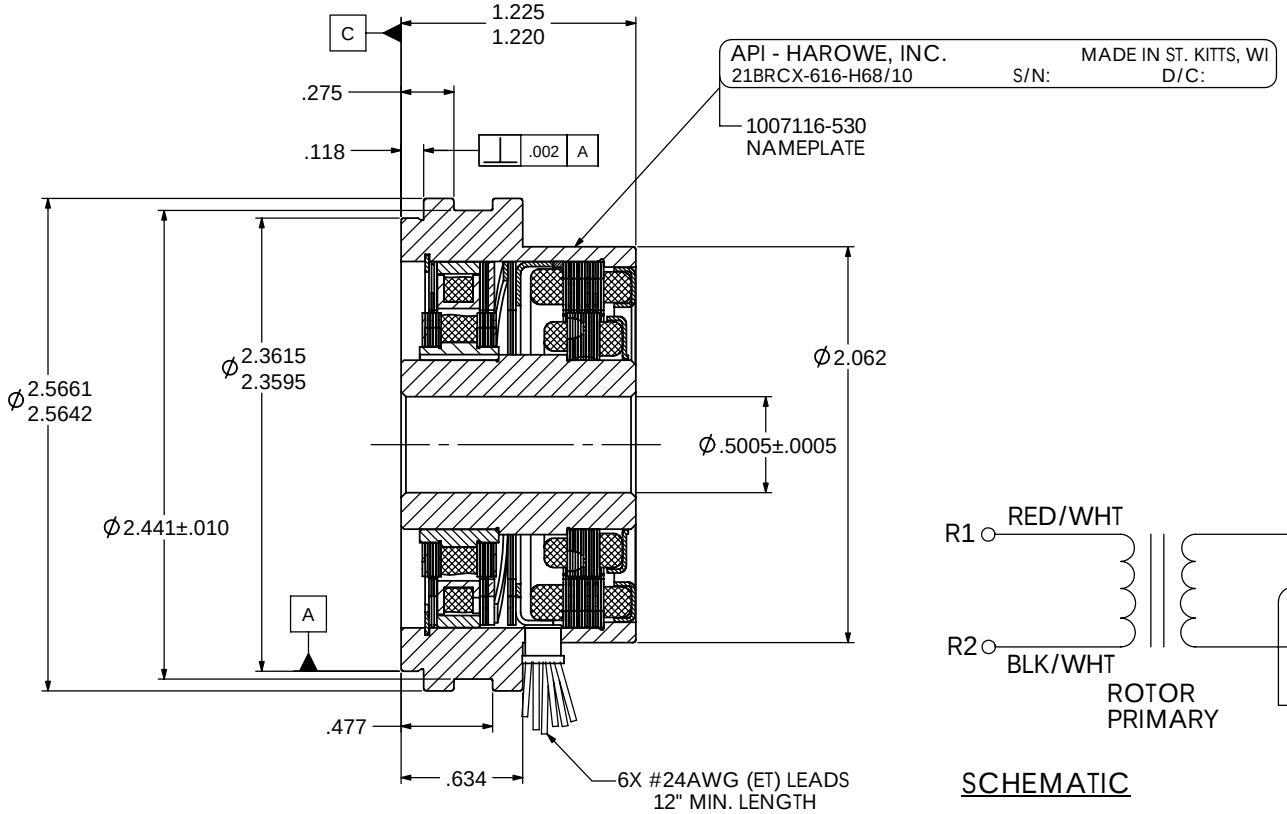
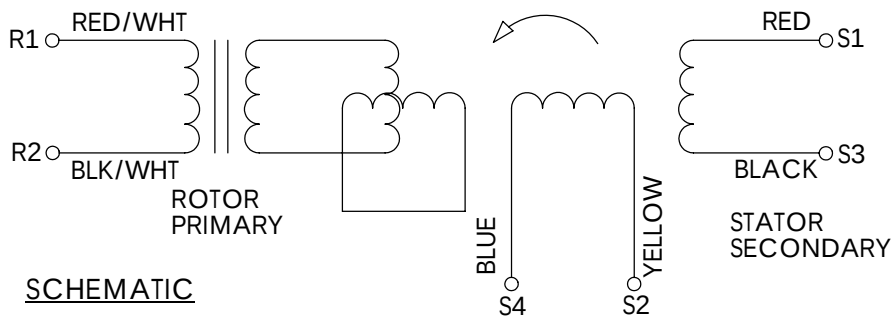
NOTES:
1. RUNOUT MEASURED WITH UNIT MOUNTED.
2. ROTOR AND STATOR TO BE AXIALLY ALIGNED WITH [C] WITHIN .025.
3. MAX. ERROR FROM E-Z OF ±13 MINUTES WHEN ROTOR IS MOUNTED ON A SHAFT WHERE RUNOUT IS .003 F.I.R. AND MOUNTING CONCENTRICITY OF STATOR IS .004 F.I.R.
4. MATERIAL: HOUSING - ALUMINUM
ROTOR SLEEVE - PLATED 12L14

| MECHANICAL DATA | | |
|---|---|---|
| Temperature Range | ºC | -55 to +155 |
| Rotor Moment Of Inertia | Oz-In-Sec² | 0.0028 |
| Weight | Oz. | 9.5 |
| Max. Continuous Speed | KRPM | 20 |

| ELECTRICAL DATA | | | 10 KHZ |
|---|---|---|---|
| Input Voltage | | Volts RMS | 7.0 |
| Input Currenet | | Max. MA | 25 |
| Input Power | | Nom. Watts | .075 |
| Impedance ZRO | | Ohms | 185+J230 |
| Impedance ZRS | | Ohms | 155+J210 |
| Impedance ZSO | | Ohms | 270+J480 |
| Impedance ZSS | | Ohms | 220+J430 |
| Transformation Ratio | | ±5% | .470 |
| Output Voltage | | ±5% Volts | 3.30 |
| DC Rotor Resitance | | ±15% Ohms | 105 |
| DC Stator Resitance | | ±15% Ohms | 34 |
| Max. Error From E-Z | | Minutes | ±10 |
| Phase Shift (Open Circuit) | | Max. | -7.0º |
| Null Voltage | | Max. MV | 25 |
| Hipot to Case | 60Hz | VRMS | 500 |
| Hipot Between Phases | 60Hz | VRMS | 250 |




SCHEMATIC

PHASING EQUATION

FOR CCW ROTATION OF ROTOR FACING TRANSFORMER MOUNTING FLANGE END.

E(S1-S3)= KE(R1-R2) COS Ø
E(S2-S4)=-KE(R1-R2) SIN Ø

THIS DRAWING HAS BEEN CREATED BY CAD/CAM. DO NOT MANUALLY REVISE OR UPDATE.

Tolerancing Complies With ANSI/ASME Y14.5M-1994

| CHG. | REVISIONS | DATE | APPR. |
|---|---|---|---|
| B | ECO#16402 | 5/00 | RKT |
| A | ECO#16354 | 4/00 | RKT |

TOLERANCES UNLESS SPECIFIED
DECIMAL .XXX ±.005
DECIMAL .XX ±.010
DECIMAL .X ±.030
FRACTION ±1/64
ANGLES ±0°30'

DRAWN D. HERRINGTON
CHECKED DCH 4/10/00
ENGR RKT 4/10/00
APPROV MCP 4/14/00
CODE IDENT NO. 06989

API Harowe
WEST CHESTER, PA. 19382

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OUTLINE & PERFORMANCE SPECIFICATIONS

RESOLVER BRUSHLESS FRAMELESS

SCALE 2:1 | DWG. NO. 21BRCX-616-H68/10 | SHEET 1 OF 2 | B