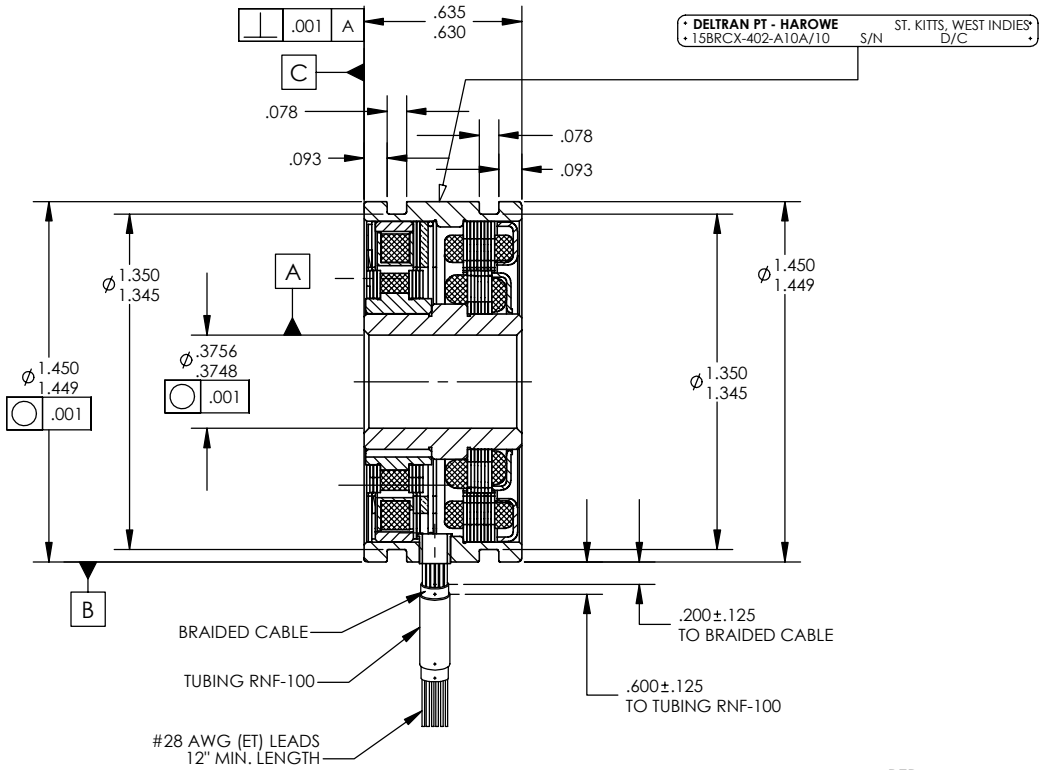
PART NUMBER	NEXT ASSY	MODEL NUMBER
15BRCX-402-A10A/10	-	-

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	CHECKED
-		NEW DRAWING	12/5/02	DDK	RKT

NOTES:
1. RUNOUT MEASURED WITH UNIT MOUNTED.
2. ROTOR AND STATOR TO BE AXIALLY ALIGNED WITH DATUM 'C' WITHIN .010
3. MAX. ERROR FROM E-Z OF ± 13 MINUTES WHEN ROTOR IS MOUNTED ON SHAFT WHERE RUNOUT IS .003 F.I.R. AND MOUNTING CONCENTRICITY OF STATOR IS .004 F.I.R.



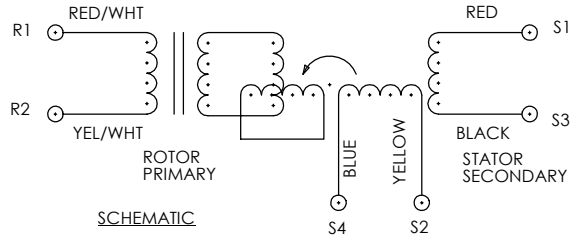
TYPICAL ELECTRICAL DATA		4 KHZ
INPUT VOLTAGE	VOLTS RMS	8.0
INPUT CURRENT	MAX. MA	22
INPUT POWER	NOM. WATTS	0.05
IMPEDANCE ZRO	OHMS	210 +J375
IMPEDANCE ZRS	OHMS	200 +J325
IMPEDANCE ZSO	OHMS	155 +J255
IMPEDANCE ZSS	OHMS	150 +J225
TRANSFORMATION RATIO	±5%	0.25
OUTPUT VOLTAGE	±5 VOLTS	2.0
D.C. ROTOR RESISTANCE	±15% OHMS	98
D.C. STATOR RESISTANCE	±15% OHMS	83
SENSITIVITY	MV/DEG	35
3 MAX. ERROR FROM E-Z MINUTES		±10
PHASE SHIFT OPEN CIRCUIT	NOM	+12
NULL VOLTAGE	MAX MV	20
HI-POT TO CASE	60HZ VRMS	500
HI-POT BETWEEN PHASES	60HZ VRMS	250

TYPICAL MECHANICAL DATA		
TEMPERATURE RANGE	°C	-55 TO +155
ROTOR MOMENT OF INERTIA	GM-CM-SEC^2	0.0141
WEIGHT	OZ	2.6

PHASING EQUATION

FOR CCW ROTATION OF ROTOR FACING TRANSFORMER MOUNTING FLANGE END.

$E(S1\text{-}S3) = KE(R1\text{-}R2)\cos\phi$
$E(S2\text{-}S4) = -KE(R1\text{-}R2)\sin\phi$



SCHEMATIC

THIRD ANGLE PROJECTION

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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIAMETERS CONCENTRIC .003 TIR FACES PERPENDICULAR - .003 INTERPRETATION PER ASME Y14.5M-1994
63 MACHINE SURFACES
FRACTIONS ±1/64 | DECIMALS .00 ±.01 .000 ±.005 | ANGLES ±30'

HEAT TREAT: N/A
FINISH: N/A

REMOVE ALL BURRS AND BREAK SHARP EDGES - .005/.010
ALL INSIDE CORNERS TO BE .015 R MAX UNLESS OTHERWISE SPECIFIED

APPROVALS	DATE
DRAWN DDK	12/5/02
CHECKED RKT	12/9/02
DES ENG RKT	12/9/02
MFG ENG	
QUAL ENG	

PARTS LIST

Deltran PT-Harowe

OUTLINE & PERFORMANCE SPECIFICATIONS

RESOLVER BRUSHLESS

SIZE B | DWG. NO. 15BRCX-402-A10A/10

SCALE 2:1 | SHEET 1 OF 2 | CODE IDENT: 58655

Mouser Electronics

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