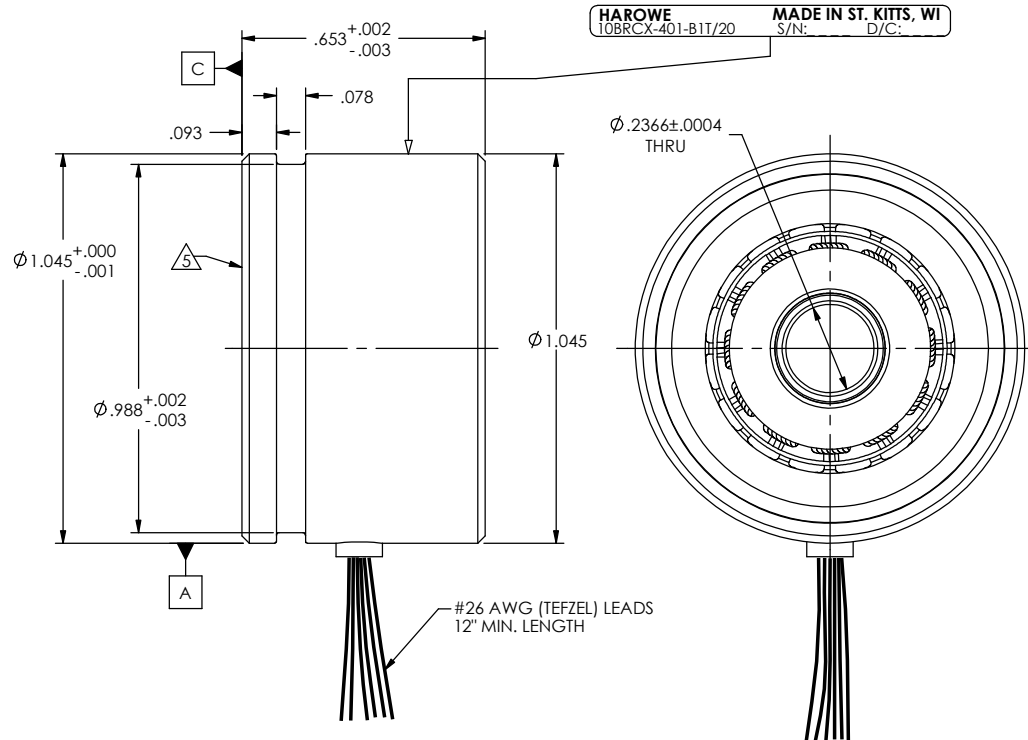


PART NUMBER	NEXT ASSY	MODEL NUMBER
10BRCX-401-B1T/20	INSTALLATION	10BRCX-401-B1T/20

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	CHECKED
-	-	NEW DRAWING	11/25/2003	DDK	RKT
001	100095	SEE ECO	9/12/2012	TSM	MCP



NOTES:

1. ROTOR AND STATOR ARE A MATCHED PAIR. DO NOT INTERCHANGE ROTOR OR STATOR BETWEEN RESOLVERS.
2. ROTOR AND STATOR TO BE AXIALLY ALIGNED WITH DATUM 'C' WITHIN .010 .
3. CUSTOMER MUST MAINTAIN SHAFT RUNOUT WITH RESPECT TO DATUM 'A' WITHIN .003 T.I.R.
4. UNIT WILL WITHSTAND 10^8 RADS (TOTAL DOSAGE)

ELECTRICAL DATA		5 KHZ ±5%	2 KHZ ±5%
INPUT VOLTAGE	±10% VOLTS RMS	4.0	4.0
INPUT CURRENT	MAX. mA	33	60
INPUT POWER	NOM. WATTS	(.08)	(.17)
IMPEDANCE ZRO	OHMS	(136)	(76)
IMPEDANCE ZRS	OHMS	(122)	(74)
IMPEDANCE ZSO MAX.	OHMS	(357)	(200)
IMPEDANCE ZSS	OHMS	(312)	(190)
TRANSFORMATION RATIO	±10%	0.50	0.50
OUTPUT VOLTAGE	VOLTS RMS	(2.0)	(2.0)
DC ROTOR RESISTANCE	OHMS	(31)	(31)
DC STATOR RESISTANCE	OHMS	(83)	(83)
MAX. ERROR FROM E-Z	MINUTES	±20	±20
PHASE SHIFT (OPEN CIRCUIT)	NOM	(+7°)	(+35°)
NULL VOLTAGE	MAX. mV	(20)	(20)
HIPOT TO CASE	4 SEC. 60HZ VRMS, 10mA	500	500
HIPOT BETWEEN PHASES	4 SEC. 60HZ VRMS, 10mA	250	250

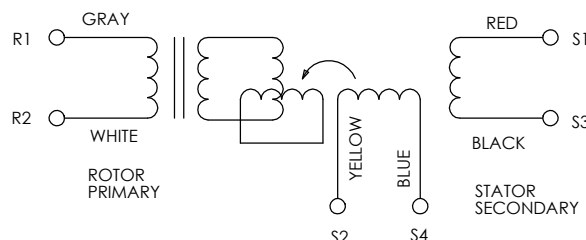
MECHANICAL DATA		
TEMPERATURE RANGE	°C	-55 TO +155
ROTOR MOMENT OF INERTIA	OZ-IN-SEC ²	(3.1 X 10 ⁻⁵)
WEIGHT	OZ/G	(1.3/37)
MAX. SPEED	KRPM	20

PHASING EQUATION

△ FOR CCW ROTATION AS VIEWED FROM TRANSFORMER END

$$E (S1-S3) = KE (R1-R2) \cos \phi$$

$$E (S2-S4) = KE (R1-R2) \sin \phi$$



SCHEMATIC

THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIAMETERS CONCENTRIC .003 TIR FACES PERPENDICULAR .003 INTERPRETATION PER ASME Y14.5M-1994		REMOVE ALL BURRS AND BREAK SHARP EDGES - .005/5/10 ALL INSIDE CORNERS TO BE .015 R MAX UNLESS OTHERWISE SPECIFIED		Harowe DANAHER MOTION
	FRACTIONS ±1/64 DECIMALS .00 ±.01 ANGLES ±30°		APPROVALS DATE		
	HEAT TREAT		DBS ENG 12/2/03		
	FINISH		QUAL ENG		
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SIZE DWG. NO. 10BRCX-401-B1T/20		SCALE 3:1 SHEET 1 OF 2 CODE IDENT: 58655			

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