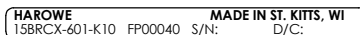
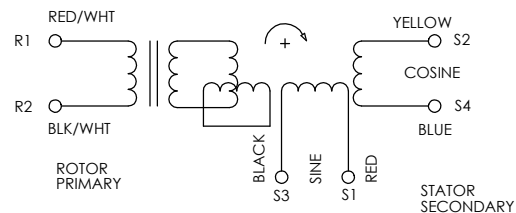


1. NOTED SURFACES MUST BE MOUNTED FLUSH ± 0.05 .
2. CUSTOMER MUST MAINTAIN SHAFT RUNOUT WITH RESPECT TO DATUM A WITHIN $.003$ T.I.R.
3. ELECTRICAL ZERO MARKED ON ROTOR & STATOR. STATOR ZERO MARK LOCATED $180 \pm 10^\circ$ FROM LEADWIRE EXIT AS SHOWN.
4. LEAD WIRE; 28 AWG TEFLON TO DIMENSION SHOWN, STRIPPED $.16 \pm .06$.
5. ROTOR & STATOR ARE A MATCHED PAIR. DO NOT INTERCHANGE ROTOR OR STATOR BETWEEN RESOLVERS.
6. THIS UNIT IS RoHS COMPLIANT.

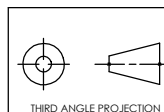


REVISIONS						
REV	ECO	DESCRIPTION	DATE	BY	CHECKED	
-	-	NEW DRAWING	3/31/2003	DRW	BWB	
A	-	CHANGE BEFORE RELEASE	9/15/2003	DRW	BWB	
B	D6534	SEE ECO	5/11/04	DDK	DRW	
C	D6639	SEE ECO	9/22/04	DDK	DRW	
D	D6850	SEE ECO	3/15/05	DDK	DRW	
E	D6917	SEE ECO	5/15/05	DDK	DRW	
F	G7019	CHANGE \$1.53 & \$2.54 DCR VALUE	8/17/05	DDK	DRW	
G	D7406	SEE ECO	4/26/06	DDK	DRW	
H	100153	SEE ECO	10/18/2013	DRW	MCP	

ELECTRICAL & MECHANICAL DATA AT 25°C		
VALUES ARE REFERENCE UNLESS OTHERWISE TOLERANCED		
HIPOT TESTING PERFORMED AT 60HZ, 4 SECOND DURATION		
ELEC CYC / MECH CYC	deg/deg	1
EXCITATION FREQUENCY	±5% kHz	10
INPUT VOLTAGE	±10% Vrms	7.0
INPUT CURRENT	Max. mArms	32
INPUT POWER	Watts	.19
IMPEDANCE ZRO	Ohms	279
IMPEDANCE ZRS	Ohms	254
IMPEDANCE ZSO	Ohms	697
IMPEDANCE ZSS	Ohms	640
TRANSFORMATION RATIO	±10%	0.5
DC RESISTANCE (R1-R2)	±15% Ohms	34.5
DC RESISTANCE (S1-S3, S2-S4)	±15% Ohms	124
STATOR RESISTANCE BALANCE	Max. Ohms	3
ERROR	Max. arcminutes	-
PK-PK ERROR	Max. arcminutes	16
PK-PK VELOCITY RIPPLE ERROR	Max. %	2.5
PHASE SHIFT, OPEN CIRCUIT	degrees	-9
NULL VOLTAGE	Max. mVrms	50
HIPOT, LEADS TO CASE, 500VAC	Max. mArms	10
HIPOT, INTERPHASE, 250VAC	Max. mArms	10
TEMPERATURE RANGE	°C	-55 TO 155
ROTOR MOMENT OF INERTIA	lb-in-sec ²	4.07 X 10 ⁻⁵
WEIGHT	oz	2.1
CONTINUOUS SPEED	Max. kRPM	20

$$\begin{aligned} E(S1-S3) &= KE(R1-R2) \sin \phi \\ E(S2-S4) &= KE(R1-R2) \cos \phi \end{aligned}$$


SCHEMATIC



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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	DECIMALS	ANGLES
$\pm 1/64$	.00 $\pm .01$	$\pm 30'$

	.000 ±.005
HEAT TREAT	

FINISH	
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A horizontal number line with two vertical tick marks. The tick mark on the left is labeled with the number 3, and the tick mark on the right is labeled with the number 1.

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

APPROVALS	DATE
DRAWN DRW	03/31/03
CHECKED BWB	04/01/03
DES ENG DRW	03/31/03
MFG ENG BB	08/27/03
QUAL ENG KW	08/26/03

Harowe

OUTLINE & PERFORMANCE SPECIFICATIONS

RESOLVER BRUSHLESS FRAMELESS

SIZE	DWG. NO.	15BRCX-601-K10
B		

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