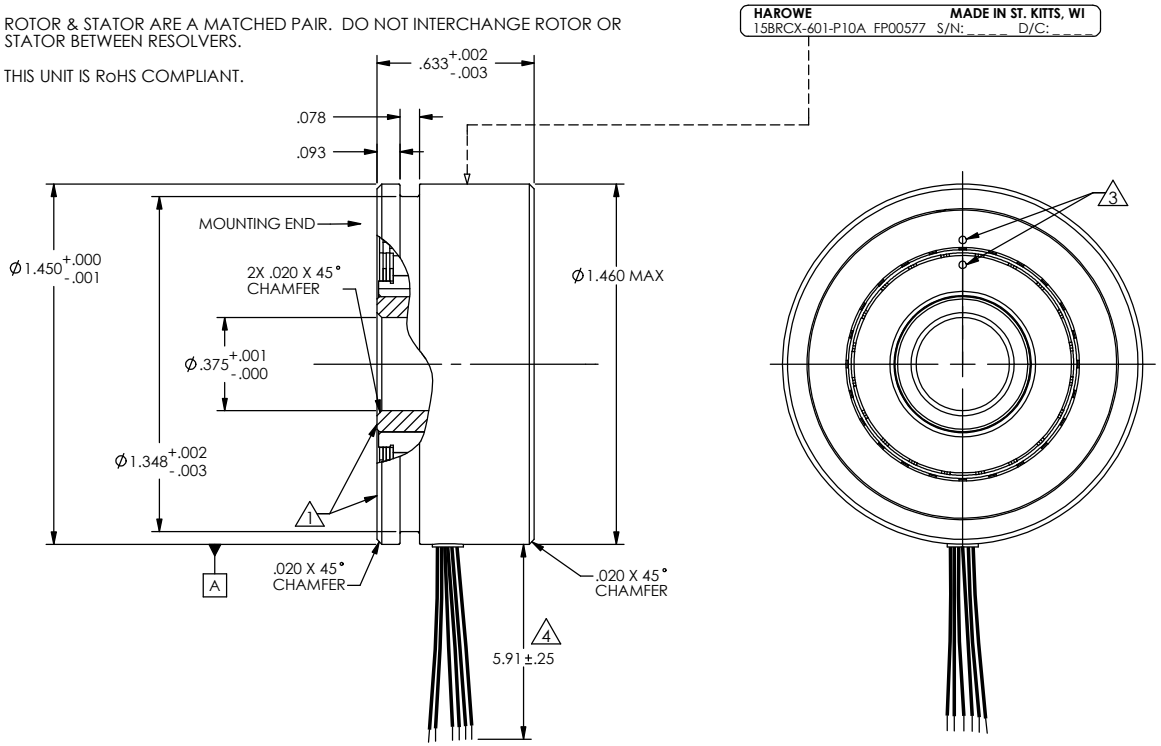
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	CHECKED
-	-	NEW DRAWING	5/5/2014	DRW	MCP

NOTES:

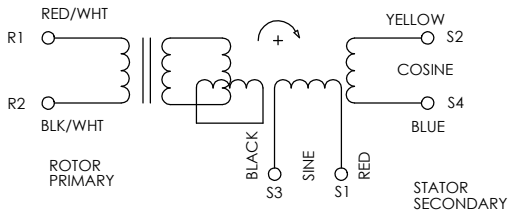
1. NOTED SURFACES MUST BE MOUNTED FLUSH ±.005.
2. CUSTOMER MUST MAINTAIN SHAFT RUNOUT WITH RESPECT TO DATUM A WITHIN .003 T.I.R.
3. ELECTRICAL ZERO MARKED ON ROTOR & STATOR. STATOR ZERO MARK LOCATED 180±10° FROM LEADWIRE EXIT AS SHOWN.
4. LEAD WIRE; 28 AWG TEFLON TO DIMENSION SHOWN, STRIPPED .065 ±.015.
5. ROTOR & STATOR ARE A MATCHED PAIR. DO NOT INTERCHANGE ROTOR OR STATOR BETWEEN RESOLVERS.
6. THIS UNIT IS RoHS COMPLIANT.



PHASING EQUATION

INCREASING ANGLE FOR CW ROTATION OF ROTOR WHEN FACING MOUNTING END

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



SCHEMATIC

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	3.5
INPUT CURRENT	Max. mArms	65
INPUT POWER	Watts	.18
IMPEDANCE ZRO	Ohms	67
IMPEDANCE ZRS	Ohms	61
IMPEDANCE ZSO	Ohms	697
IMPEDANCE ZSS	Ohms	640
TRANSFORMATION RATIO	±10%	1.0
DC RESISTANCE (R1-R2)	±15% Ohms	8.5
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	$lbf\text{-}in\text{-}sec^2$	4.07×10^{-5}
WEIGHT	oz	2.1
CONTINUOUS SPEED	Max. kRPM	20

THIRD ANGLE PROJECTION

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
±1/64	.00 ±.01 .000 ±.005	±30'

HEAT TREAT -

FINISH -

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

APPROVALS	DATE
DRAWN DRW	05/05/2014
CHECKED MCP	05/05/2014
DES ENG DRW	05/05/2014

Harowe

OUTLINE & PERFORMANCE SPECIFICATION

RESOLVER BRUSHLESS FRAMELESS

SIZE B | DWG. NO. 15BRCX-601-P10A

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

Mouser Electronics

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