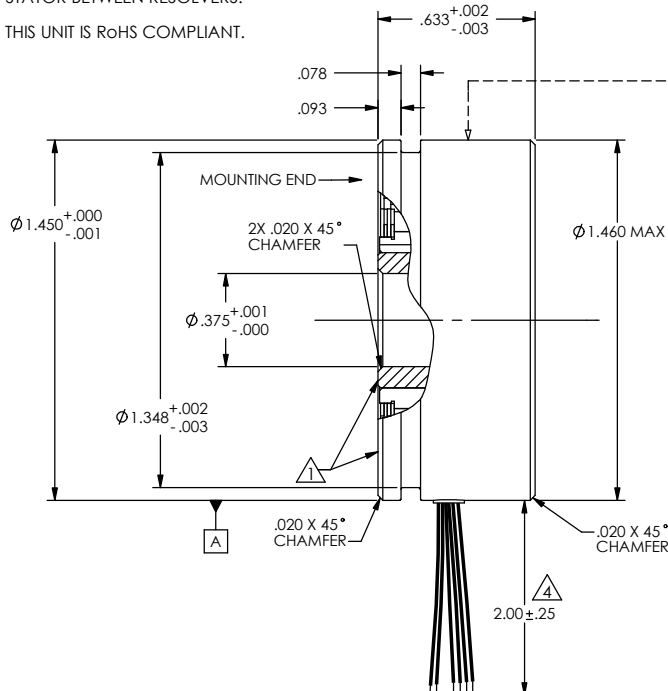
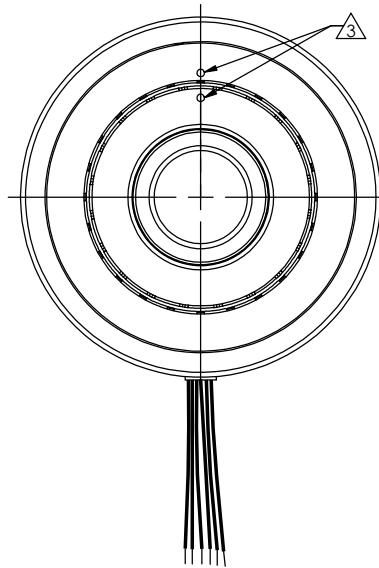


NOTES:

1. NOTED SURFACES MUST BE MOUNTED FLUSH $\pm .005$.
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 $180 \pm 10^\circ$ FROM LEADWIRE EXIT AS SHOWN.
4. LEAD WIRE; 28 AWG TEFLON TO DIMENSION SHOWN, STRIPPED $.065 \pm .015$.
5. ROTOR & STATOR ARE A MATCHED PAIR. DO NOT INTERCHANGE ROTOR OR STATOR BETWEEN RESOLVERS.
6. THIS UNIT IS RoHS COMPLIANT.



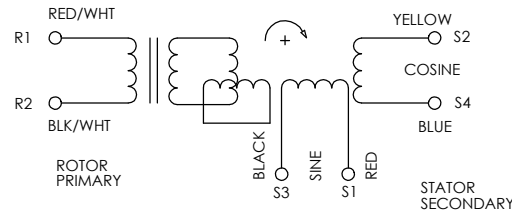
HAROWE
15BRCX-601-P10 FP00069 S/N: D/C:



PHASING EQUATION
INCREASING ANGLE FOR CW ROTATION
OF ROTOR WHEN FACING MOUNTING END

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

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



SCHEMATIC

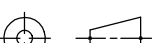
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	CHECKED
-	-	NEW DRAWING	9/4/2003	DRW	BWB
A	D4535	SEE ECO	5/12/04	DDK	DRW
B	D4652	SEE ECO	9/29/04	DDK	DRW
C	D4680	SEE ECO	3/15/05	DDK	DRW
D	D4917	SEE ECO	5/16/05	DDK	DRW
E	D7019	CHANGE S1, S3 & S2, S4 DCR VALUE	8/17/2005	DRW	
F	D7408	SEE ECO	4/24/06	DDK	DRW
G	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	$\pm 5\%$ kHz	10
INPUT VOLTAGE	$\pm 10\%$ 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	$\pm 10\%$	1.0
DC RESISTANCE (R1-R2)	$\pm 15\%$ Ohms	8.5
DC RESISTANCE (S1-S3, S2-S4)	$\pm 15\%$ 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	4.07×10^{-5}
WEIGHT	oz	2.1
CONTINUOUS SPEED	Max. kRPM	20

		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 - .005/0.010 ALL INSIDE CORNERS TO BE .015 R MAX UNLESS OTHERWISE SPECIFIED		Harowe					
THIRD ANGLE PROJECTION		63° ✓ MACHINE SURFACES FRACTIONS $\pm 1/64$ DECIMALS $\pm .01$ ANGLES $\pm 30'$ 0.000 $\pm .005$		APPROVALS		DATE		OUTLINE & PERFORMANCE SPECIFICATION			
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF HAROWE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF HAROWE IS PROHIBITED.		DRAWN DRW		09/04/03							
		CHECKED BWB		10/13/03							
		DES ENG DRW		09/04/03							
		MFG ENG		-							
HEAT TREAT		-		QUAL ENG		-		SIZE B		DWG. NO. 15BRCX-601-P10	
FINISH		-		-		-		SCALE 2:1		SHEET 1 OF 2	
										CODE IDENT: 58655	

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[API Delevan:](#)

[15BRCX-601-P10](#)