

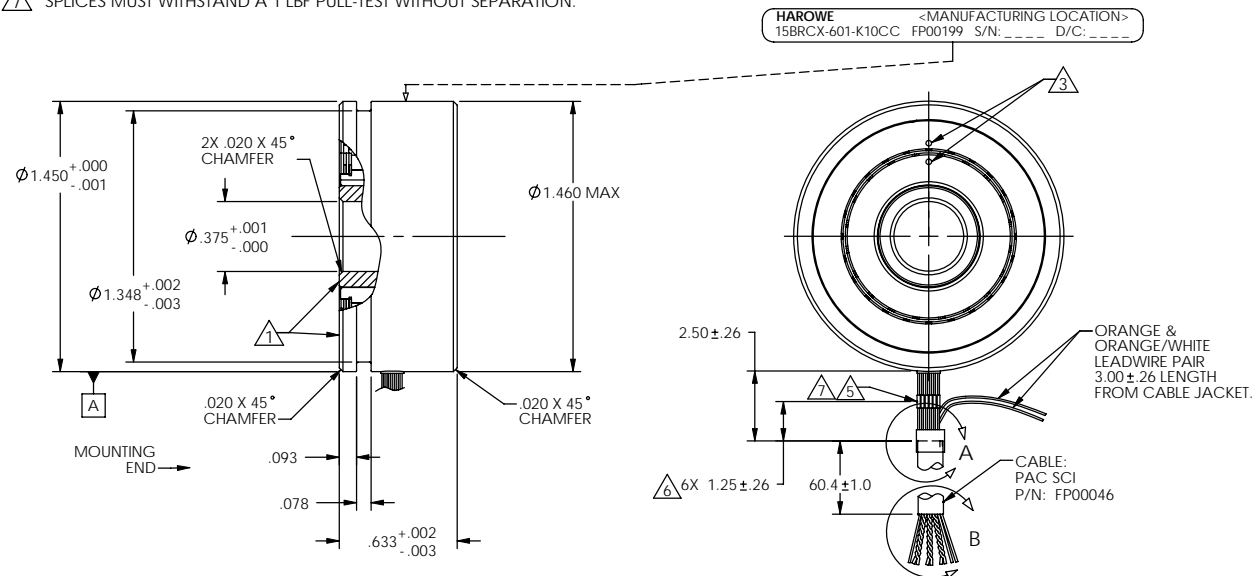
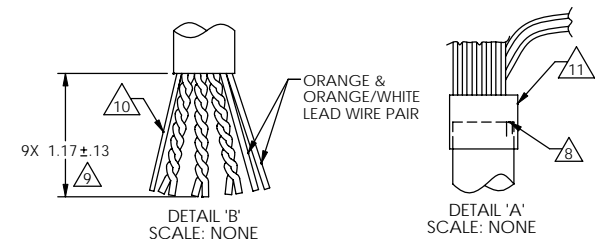
PART NUMBER	NEXT ASSY	MODEL NUMBER
15BRCX-601-K10CC	INSTALLATION	15BRCX-601-K10CC

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	CHECKED
-	D8330	NEW DRAWING	8/11/2007	DDK	DRW

NOTES:

- NOTED SURFACES MUST BE MOUNTED FLUSH $\pm .005$.
- CUSTOMER MUST MAINTAIN SHAFT RUNOUT WITH RESPECT TO DATUM A WITHIN .003 T.I.R.
- ELECTRICAL ZERO TO BE MARKED ON ROTOR & STATOR. STATOR ZERO MARK LOCATED $180 \pm 10^\circ$ FROM LEADWIRE EXIT AS SHOWN.
- ROTOR & STATOR ARE A MATCHED PAIR. DO NOT INTERCHANGE ROTOR OR STATOR BETWEEN RESOLVERS.
- SPLICE BETWEEN RESOLVER LEADS TO CABLE LEADS COMPLETELY INSULATED WITH SHRINK TUBING. TUBING .59" MAX. LENGTH. TUBING MUST BE RATED FOR 130°C MINIMUM.
- DIMENSION FROM CABLE JACKET TO CENTER OF SOLDER JOINT.
- SPLICES MUST WITHSTAND A 1 LBF PULL-TEST WITHOUT SEPARATION.

- CUT DRAIN WIRE FLUSH WITH JACKET AND COPPER SHIELD.
- OUTER JACKET AND COPPER SHIELD TO BE REMOVED TO DIMENSION SHOWN.
- DRAIN WIRE INSULATED WITH BLACK SHRINK TUBING RATED AT 85°C MINIMUM.
- .19 \pm .10 SHRINK TUBING WITH WALL THICKNESS OF .010 RATED 130°C MINIMUM CENTERED OVER END OF JACKET.



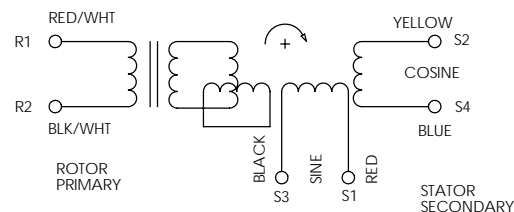
ELECTRICAL & MECHANICAL DATA AT 25°C		
VALUES ARE REFERENCE UNLESS OTHERWISE TOLERANCED		
HIPOT TESTING PERFORMED AT 60HZ, 4 SECOND DURATION		
ELEC CYC / MECH CYC	deg/deg	1
EXCITATION FREQUENCY	$\pm 1\%$ kHz	10
INPUT VOLTAGE	$\pm 5\%$ Vrms	7.0
INPUT CURRENT	Max. mArms	32
INPUT POWER	Watts	.19
IMPEDANCE [ZRO]	Ohms	279
IMPEDANCE [ZRS]	Ohms	254
IMPEDANCE [ZSO]	Ohms	697
IMPEDANCE [ZSS]	Ohms	640
TRANSFORMATION RATIO	$\pm 10\%$.5
DC RESISTANCE (R1-R2)	Ohms	34.5
DC RESISTANCE (S1-S3, S2-S4)	Ohms	124
PK-PK POSITION ERROR	Max. arcminutes	16
PK-PK VELOCITY ERROR	Max. %	2.5
PHASE SHIFT, OPEN CIRCUIT	degrees	-9
NULL VOLTAGE	Max. mVrms	50
HIPOT, LEADS TO CASE, 500VAC	Max. mArms	2
HIPOT, INTERPHASE, 250VAC	Max. mArms	2
TEMPERATURE RANGE	°C	-55 TO + 155
WEIGHT	oz	2.6
CONTINUOUS SPEED	Max. kRPM	20

PHASING EQUATION

INCREASING ANGLE FOR CW ROTATION OF ROTOR FACING MOUNTING END

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

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



SCHEMATIC

<p>THIRD ANGLE PROJECTION</p> <p>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.</p>	<p>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES - DIAMETERS CONCENTRIC - .003 TIR - FACES PERPENDICULAR - .003 INTERPRETATION PER ASME Y14.5M-1994</p> <p>6/32 MACHINE SURFACES</p> <p>FRACTIONS $\pm 1/64$ DECIMALS $\pm .01$ ANGLES $\pm 30'$</p> <p>HEAT TREAT -</p> <p>FINISH -</p>		<p>REMOVE ALL BURRS AND BREAK SHARP EDGES - .005/010 ALL INSIDE CORNERS TO BE .015 R MAX UNLESS OTHERWISE SPECIFIED</p> <p>APPROVALS</p> <p>DRAWN DDK 08/01/07</p> <p>CHECKED DRW 08/06/07</p> <p>DESIGN DRW 08/06/07</p> <p>MTG ENG -</p> <p>QUAL ENG -</p>		<p> DANAHER INDUSTRIAL CONTROLS</p> <p>OUTLINE & PERFORMANCE SPECIFICATION</p> <p>RESOLVER BRUSHLESS FRAMELESS</p> <p>SIZE DWG. NO. 15BRCX-601-K10CC</p> <p>SCALE 3:2 SHEET 1 OF 2 CODE IDENT: 58655</p>

Mouser Electronics

Authorized Distributor

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