

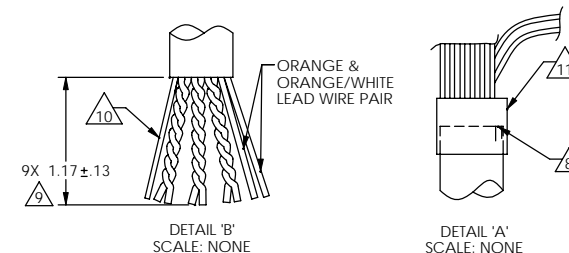
PART NUMBER	NEXT ASSY	MODEL NUMBER
10BRCX-401-K1D	INSTALLATION	10BRCX-401-K1D

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	CHECKED
-	D8674	NEW DRAWING	11/29/2007	DDK	MCP

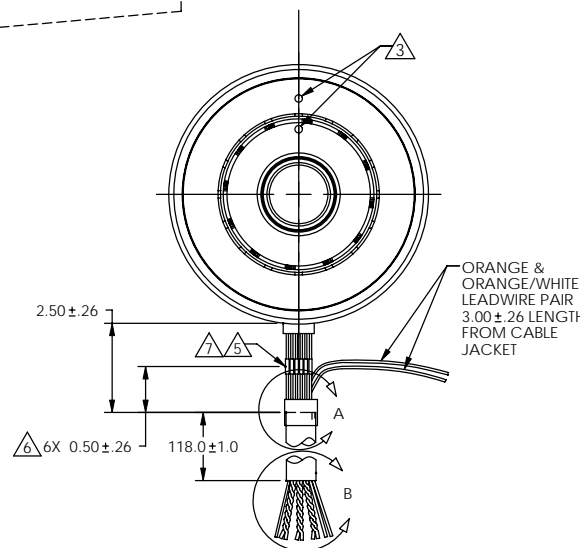
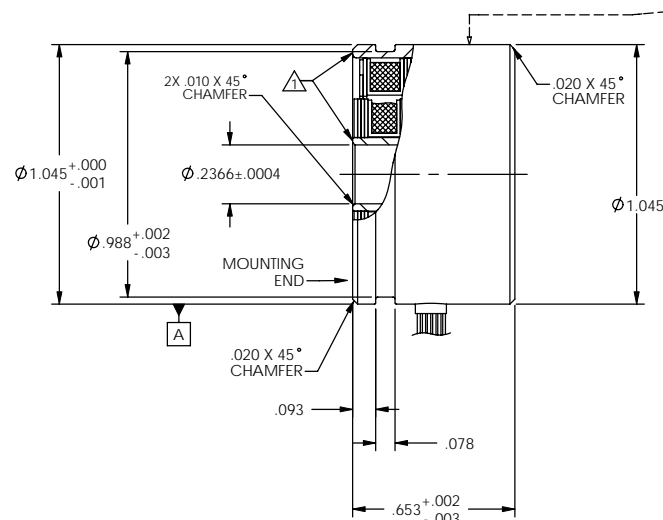
NOTES:

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

HAROWE
10BRCX-401-K1D
<MANUFACTURING LOCATION>
S/N: D/C:



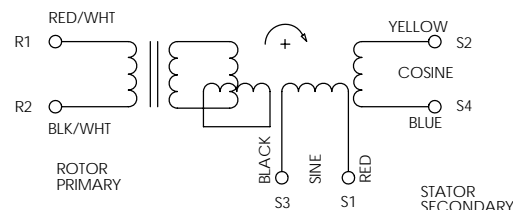
ELECTRICAL & MECHANICAL DATA AT 25°C		
VALUES ARE REFERENCE UNLESS OTHERWISE TOLERANCED		
HIPOT TESTING PERFORMED AT 60HZ, 4 SECOND DURATION		
ELEC CYC / MECH CYC	deg/deg	1
EXCITATION FREQUENCY	$\pm 5\%$ kHz	10
INPUT VOLTAGE	$\pm 10\%$ Vrms	7.0
INPUT CURRENT	Max. mAmps	30
INPUT POWER	Watts	.07
IMPEDANCE ZRO	Ohms	276
IMPEDANCE ZRS	Ohms	251
IMPEDANCE ZSO	Ohms	687
IMPEDANCE ZSS	Ohms	625
TRANSFORMATION RATIO	$\pm 10\%$	0.5
DC RESISTANCE (R1-R2)	Ohms	28
DC RESISTANCE (S1-S3, S2-S4)	Ohms	91
PK-PK POSITION ERROR	Max. arcminutes	30
PK-PK VELOCITY ERROR	Max. %	-
PHASE SHIFT, OPEN CIRCUIT	degrees	-9
NULL VOLTAGE	Max. mVrms	50
HIPOT, LEADS TO CASE, 500VAC	Max. mAmps	10
HIPOT, INTERPHASE, 250VAC	Max. mAmps	10
TEMPERATURE RANGE	$^\circ\text{C}$	-55 TO 155
ROTOR MOMENT OF INERTIA	lbf-in-sec ²	2.16×10^{-6}
WEIGHT	oz	1.8
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>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIAMETERS CONCENTRIC .003 TIR FACES PERPENDICULAR .003 INTERPRETATION PER ASME Y14.5M-1994</p>		<p>REMOVE ALL BURRS AND BREAK SHARP EDGES .005 DIA ALL INSIDE CORNERS TO BE .015 R MAX UNLESS OTHERWISE SPECIFIED</p>	
	<p>FRACTIONS $\pm 1/64$</p> <p>DECIMALS $\pm .01$</p> <p>ANGLES $\pm 30'$</p> <p>6° MACHINE SURFACES MCP</p>	<p>HEAT TREAT -</p> <p>FINISH -</p>	<p>APPROVALS</p> <p>DRAWN DDK 11/29/07</p> <p>CHECKED MCP 11/29/07</p> <p>DESIGN MCP 11/29/07</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>SUB DWG. NO. 10BRCX-401-K1D</p> <p>SCALE 2:1</p> <p>SHEET 1 OF 2</p> <p>CODE IDENT: 58655</p>

Mouser Electronics

Authorized Distributor

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