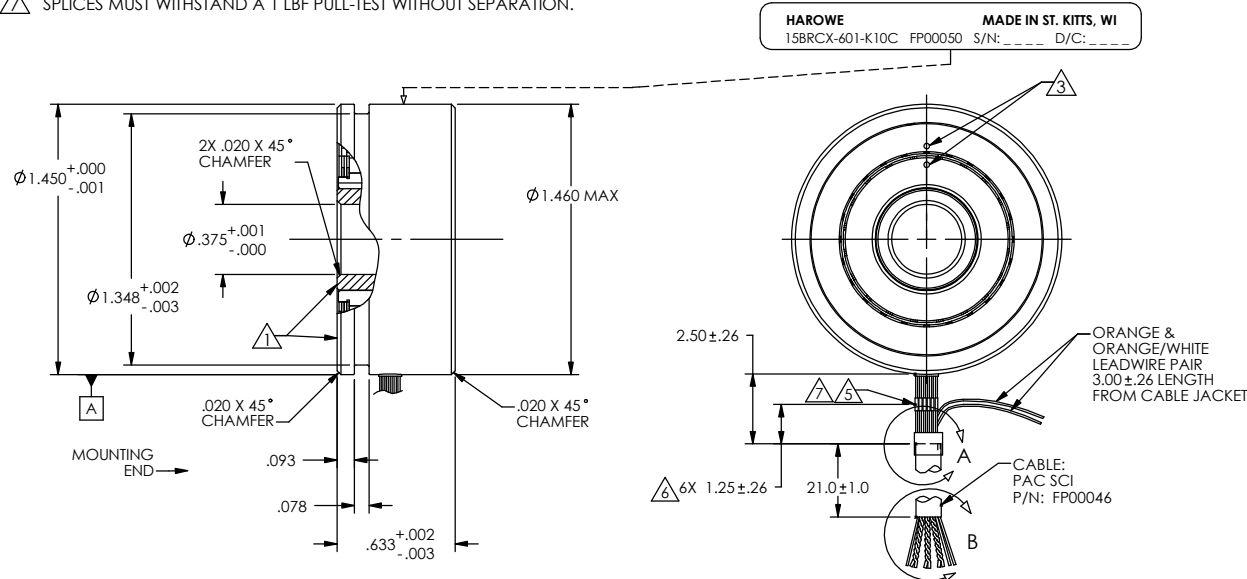


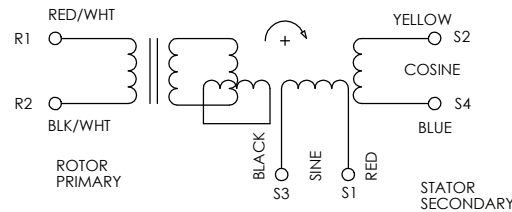
NOTES:

- 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.

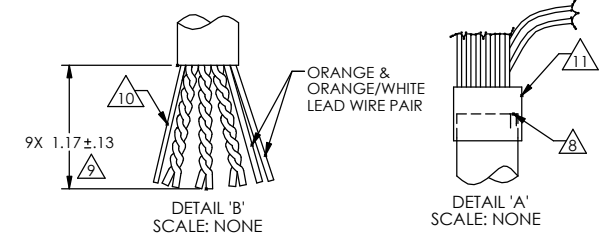


PHASING EQUATION
 INCREASING ANGLE FOR CW ROTATION
 OF ROTOR FACING MOUNTING END
 $E(S1-S3) = KE(R1-R2) \sin \phi$
 $E(S2-S4) = KE(R1-R2) \cos \phi$



SCHEMATIC

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	CHECKED
A	D4656	NEW DRAWING	9/16/2003	DRW	BWB
B	D4650	SEE ECO	10/7/04	DDK	DRW
C	D4917	SEE ECO	3/15/05	DDK	DRW
D	D7016	UPDATE CABLE REVISION	5/16/05	DDK	DRW
E	D7019	CHANGE S1, S3 & S2, S4 DCR VALUES	8/17/2005	DRW	
F	D7230	SEE ECO	10/20/2004	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	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	$\pm 10\%$	0.5
DC RESISTANCE (R1-R2)	$\pm 15\%$ Ohms	34.5
DC RESISTANCE (S1-S3, S2-S4)	$\pm 15\%$ Ohms	124
STATOR RESISTANCE BALANCE	Max. Ohms	3
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	10
HIPOT, INTERPHASE, 250VAC	Max. mArms	10
TEMPERATURE RANGE	$^\circ\text{C}$	-55 TO 155
ROTOR MOMENT OF INERTIA	lbf-in-sec ²	4.07×10^{-5}
WEIGHT	oz	2.6
CONTINUOUS SPEED	Max. kRPM	20

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 DIAMETERS: CONCENTRIC $.003$ TIR
 FACES PERPENDICULAR $.003$ TIR
 INTERPRETATION PER ASME
 Y14.5M-1994
 MACHINE SURFACES
 FRACTIONS $\frac{1}{16}$ DECIMALS $.001$ ANGLES $\pm 30'$
 HEAT TREAT - FINISH -

REMOVE ALL BURRS AND BREAK SHARP EDGES - .005/0.010 ALL INSIDE CORNERS TO BE .015 R MAX UNLESS OTHERWISE SPECIFIED

APPROVALS	DATE
DRAWN DRW	05/27/03
CHECKED BWB	09/16/03
DESIGN DRW	05/27/03
MTG ENG	-
QUAL ENG	-

Harowe

OUTLINE & PERFORMANCE SPECIFICATION

RESOLVER BRUSHLESS FRAMELESS

SIZE DWG. NO. **15BRCX-601-K10C**

SCALE 3:2 SHEET 1 OF 2 CODE IDENT: 58655

Mouser Electronics

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