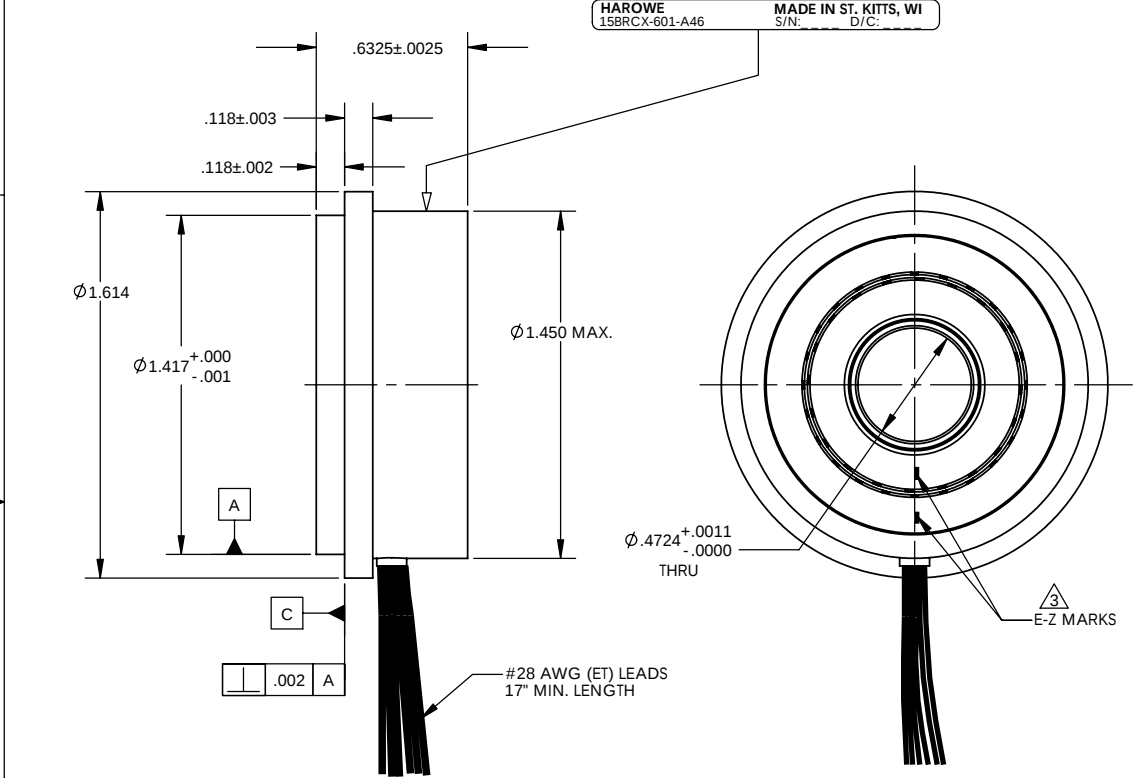


PART NUMBER	NEXT ASSY	MODEL NUMBER
15BRCX-601-A46	INSTALLATION	15BRCX-601-A46

REVISIONS				
REV	ECO	DESCRIPTION	DATE	BY CHECKED
-	-	NEW DRAWING	5/25/04	DDK DRW

- NOTES:
- ROTOR FACE AND PLANE 'C' OF HOUSING TO BE AXIALLY ALIGNED WITHIN .118 ± .010
 - CUSTOMER MUST MAINTAIN SHAFT RUNOUT WITH RESPECT TO DATUM 'A' WITHIN .003 T.I.R.
 - ROTOR AND STATOR E-Z MARKS TO BE IN LINE WITH LEAD EXIT AS SHOWN ON STATOR END.
 - MATERIAL: HOUSING - ALUMINUM
ROTOR - PLATED 12L14

ELECTRICAL & MECHANICAL DATA AT 25°C		
VALUES ARE NOMINAL UNLESS OTHERWISE TOLERANCED		
HIPOT TESTING PERFORMED AT 60HZ, 4 SECOND DURATION		
ELEC CYC / MECH CYC	deg/deg	1
EXCITATION FREQUENCY	±5% kHz	7.5
INPUT VOLTAGE	±10% Vrms	10
INPUT CURRENT	Max. mA	50
INPUT POWER	Watts	.42
IMPEDANCE ZRO	Ohms	242
IMPEDANCE ZRS	Ohms	220
IMPEDANCE ZSO	Ohms	705
IMPEDANCE ZSS	Ohms	645
TRANSFORMATION RATIO	±10%	0.5
DC RESISTANCE (R1-R2)	±15% Ohms	43
DC RESISTANCE (S1-S3, S2-S4)	±15% Ohms	167
PK-PK ERROR	Max. arcminutes	25 spread ±25
VELOCITY RIPPLE ERROR	%	-
PHASE SHIFT, OPEN CIRCUIT	degrees	-1
NULL VOLTAGE	Max. mVrms	30
HIPOT, LEADS TO CASE, 500VAC	Max. mA	2
HIPOT, INTERPHASE, 250VAC	Max. mA	2
TEMPERATURE RANGE	°C	-55 TO 155
ROTOR MOMENT OF INERTIA	GM-CM-SEC ²	.0141
WEIGHT	oz	3.0

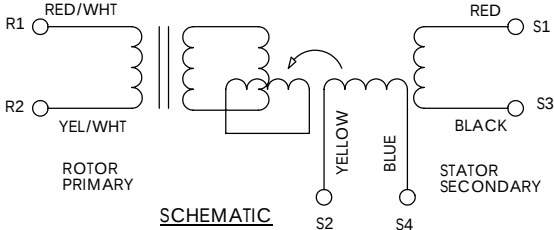


#28 AWG (ET) LEADS
17" MIN. LENGTH

PHASING EQUATION

FOR CCW ROTATION OF ROTOR FACING
TRANSFORMER MOUNTING FLANGE END

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

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


 THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIAMETERS CONCENTRIC .003 TIR FACES PERPENDICULAR - .003 INTERPRETATION PER ASME Y14.5M-1994 $\frac{1}{64}$ MACHINE SURFACES <table><tr><td>FRACTIONS</td><td>DECIMALS</td><td>ANGLES</td></tr><tr><td>$\pm \frac{1}{64}$</td><td>$.00 \pm .01$</td><td>$\pm 30'$</td></tr><tr><td></td><td>$.000 \pm .005$</td><td></td></tr></table> HEAT TREAT FINISH	FRACTIONS	DECIMALS	ANGLES	$\pm \frac{1}{64}$	$.00 \pm .01$	$\pm 30'$		$.000 \pm .005$		REMOVE ALL BURRS AND BREAK SHARP EDGES - .005 R/D ALL INSIDE CORNERS TO BE .015 R MAX UNLESS OTHERWISE SPECIFIED <table><tr><th>APPROVALS</th><th>DATE</th></tr><tr><td>DRAWN DDK</td><td>5/25/04</td></tr><tr><td>CHECKED DRW</td><td>6/25/04</td></tr><tr><td>DES ENG DRW</td><td>6/25/04</td></tr><tr><td>MFG ENG</td><td></td></tr><tr><td>QUAL ENG</td><td></td></tr></table>	APPROVALS	DATE	DRAWN DDK	5/25/04	CHECKED DRW	6/25/04	DES ENG DRW	6/25/04	MFG ENG		QUAL ENG		 OUTLINE & PERFORMANCE SPECIFICATIONS RESOLVER BRUSHLESS SIZE DWG. NO. 15BRCX-601-A46 <table><tr><td>SCALE</td><td>2:1</td><td>SHEET 1 OF 2</td><td>CODE IDENT: 58655</td></tr></table>	SCALE	2:1	SHEET 1 OF 2	CODE IDENT: 58655
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