

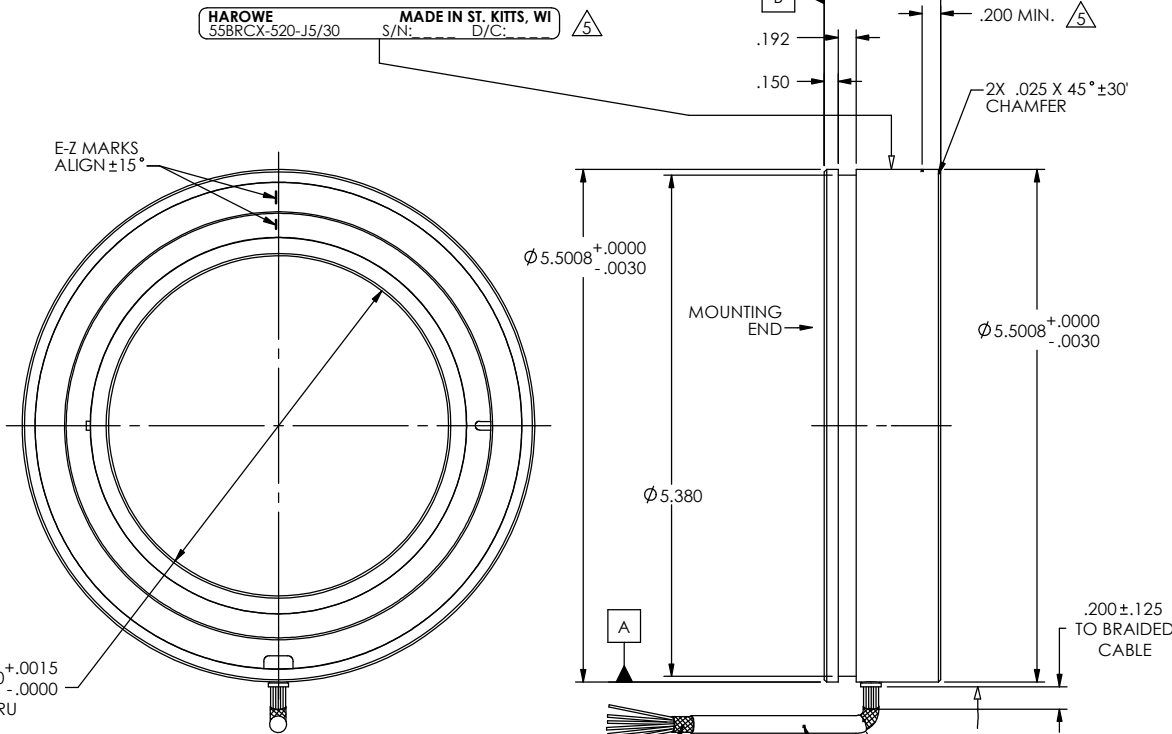
8 7 6 5 4 3 2 1

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	CHECKED
-	-	NEW DRAWING	4/19/04	DDK	DRW
A	D6565	SEE ECO	6/7/04	DDK	DRW
B	D6865	SEE ECO	3/24/05	DDK	DRW
C	D7444	SEE ECO	5/18/06	DDK	DRW
D	28891	SEE ECN	7/21/2008	SEW	
E	100192	SEE ECO	2/27/2014	DRW	MCF

NOTES:

1. MATCHED SET - DO NOT ISSUE SEPARATELY.
 2. ROTOR AND STATOR TO BE ALIGNED WITH DATUM 'B' ±.015
 3. CUSTOMER MUST MAINTAIN SHAFT RUNOUT WITH RESPECT TO DATUM 'A' WITHIN .003 T.I.R.
- ⚠️ LEADS TO BE TWISTED PAIRS COVERED WITH A SINGLE TIN PLATED TUBULAR BRAID AND HEAT SHRINKABLE RNF-150 TUBING.
- ⚠️ NAMEPLATE MUST NOT BE WITHIN MINIMUM DIMENSION SHOWN

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	±1% kHz	7.0
INPUT VOLTAGE	±5% Vrms	4.25
INPUT CURRENT	Max. mArms	55
INPUT POWER	Watts	.15
IMPEDANCE ZRO	Ohms	91
IMPEDANCE ZRS	Ohms	86
IMPEDANCE ZSO	Ohms	468
IMPEDANCE ZSS	Ohms	445
TRANSFORMATION RATIO	±5%	.47
DC RESISTANCE (R1-R2)	±15% Ohms	39
DC RESISTANCE (S1-S3, S2-S4)	±15% Ohms	54
ERROR	Max. arcminutes	±30
PK-PK ERROR	Max. arcminutes	-
PK-PK VELOCITY RIPPLE ERROR	Max. %	-
PHASE SHIFT, OPEN CIRCUIT	±3 degrees	+4
NULL VOLTAGE	Max. mVrms	30
HIPOT, LEADS TO CASE, 500VAC	Max. mArms	2
HIPOT, INTERPHASE, 250VAC	Max. mArms	2
TEMPERATURE RANGE	°C	-55 TO +155
ROTOR MOMENT OF INERTIA	oz-in-sec ²	.26
WEIGHT	lbs	3.3



$\phi 3.6500^{+.0015}_{-.0000}$
THRU

E-Z MARKS
ALIGN ±15°

HAROWE
55BRCX-520-J5/30
MADE IN ST. KITTS, WI
S/N: [blank]
D/C: [blank]

B

.192

.150

1.250^{+.000}
- .005

.200 MIN.

2X .025 X 45° ±30'
CHAMFER

$\phi 5.5008^{+.0000}_{-.0030}$

MOUNTING END

$\phi 5.5008^{+.0000}_{-.0030}$

$\phi 5.380$

A

.200 ±.125
TO BRAIDED
CABLE

.600 ±.125
TO TUBING
RNF-150

⚠️ #24 AWG (ET) LEADS
15" MIN. LENGTH

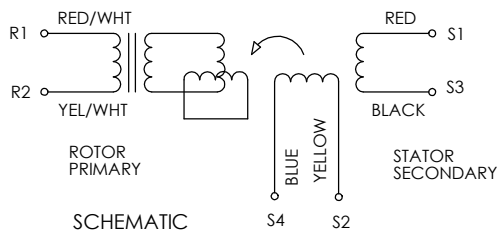
BRAIDED CABLE
11" MIN. LG

RNF-150 TUBING
10.00 ±.25 LG

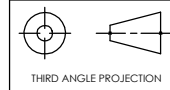
PHASING EQUATION

INCREASING ANGLE FOR
CCW ROTATION AS VIEWED
FROM MOUNTING END

$E (S1-S3) = KE (R1-R2) \cos \phi$
 $E (S2-S4) = -KE (R1-R2) \sin \phi$



SCHEMATIC



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
SHARP EDGES BROKEN .005/.010
INSIDE CORNERS R .015 MAX
TOLERANCES:
DECIMAL .00 ±.01 .000 ±.005
ANGLE ±10°
CHAMFER ANGLE ±10°
INTERPRETATION PER ASME
Y14.5M/1994

Harowe

OUTLINE & PERFORMANCE
SPECIFICATION

RESOLVER BRUSHLESS

SIZE DWG. NO. **55BRCX-520-J5/30**

APPROVALS	DATE
DRAWN DDK	4/19/04
CHECKED DRW	4/20/04
DESIGN DRW	4/20/04

SCALE	SHEET	OF	TOTAL	CODE IDENT
.75:1	1	1	1	58655

8 7 6 5 4 3 2 1