

NOTES:

1. SHAFT END PLAY MEASURED WITH A 8 OZ. REVERSE GAGE LOAD.
2. RADIAL PLAY MEASURED WITH A 4 OZ. REVERSE GAGE LOAD.
- 3 MEASURED IN A VERTICAL POSITION.

(F)

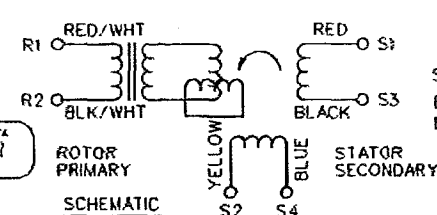
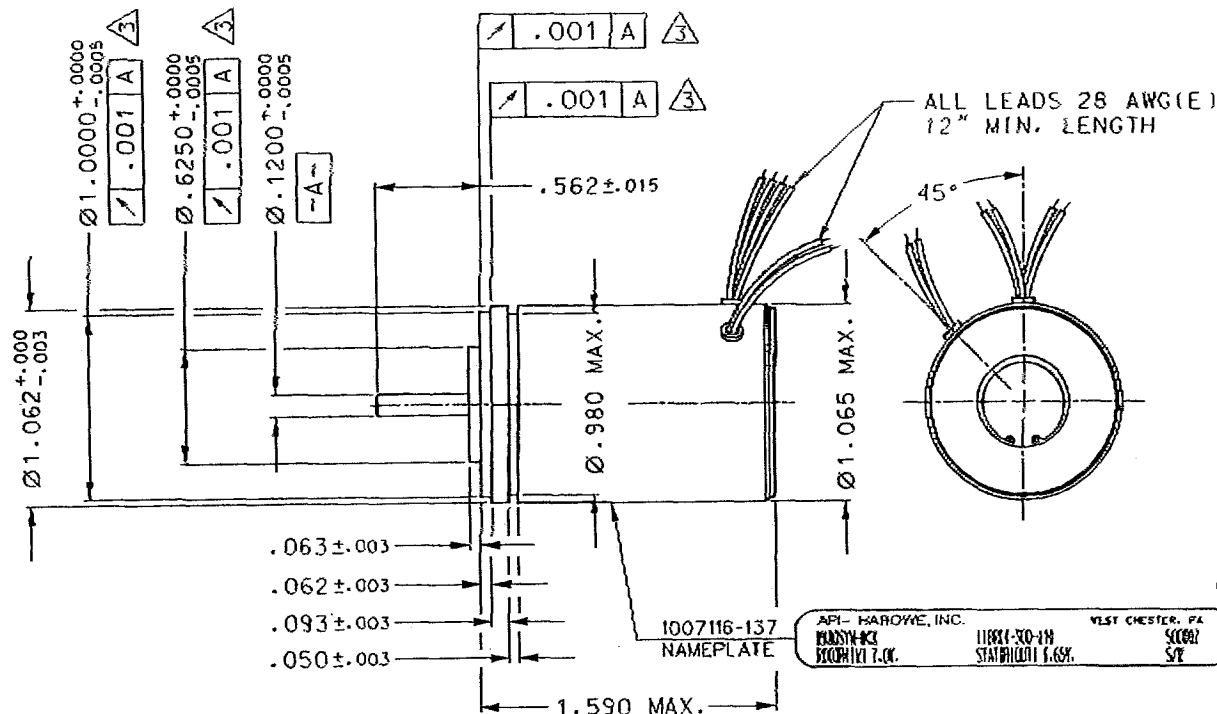
TYPICAL MECHANICAL DATA

TEMPERATURE RANGE	°C	-55 to +125
FRICTION @ 25°C	GM-CM	.3
FRICTION @ 55°C	GM-CM	.5
ROTOR MOMENT OF INERTIA	GM-CM ²	3.5
SHAFT END PLAY	(See Note 1)	.001 to .002
SHAFT RADIAL PLAY	(See Note 2)	.001 MAX.
SHAFT RUNOUT	F.I.R.	.001 MAX.
WEIGHT	GRAMS AVG	116

(E) TYPICAL ELECTRICAL DATA

		5000HZ	2.5K
INPUT VOLTAGE	VOLTS	7.0	7.0
INPUT CURRENT	MAX. MA	10.9	17
INPUT POWER	NOM WATTS	.047	.06
IMPEDANCE Z50	OHMS	800 ± J1300	510 ± J730
IMPEDANCE Z55	OHMS	310 ± J885	215 ± J435
IMPEDANCE Z60	OHMS	570 ± J565	335 ± J365
IMPEDANCE ZRS	OHMS	235 ± J375	145 ± J210
TRANSFORMATION RATIO	±5%	.9500	.9500
OUTPUT VOLTAGE	±5% VOLTS	6.65	6.65
D.C. ROTOR RESISTANCE	±10 OHMS	16	16
D.C. STATOR RESISTANCE	±10% OHMS	52	52
SENSITIVITY	MV/DEG	116	116
MAX ERROR FROM E.Z.	MINUTES	±7	±7
PHASE SHIFT (OPEN CIRCUIT)	NOM.	-6.5°	-1°
NULL VOLTAGE (TOTAL)	RMS MV	15	15
HIPOT TO CASE	VRMS	500	500
HIPOT BETWEEN PHASES	VRMS	250	250

FILENAME: 11BRCX30.DGN



PHASING EQUATION

FOR CCW ROTATION OF SHAFT, FACING SHAFT END.
E(S1-S3)+KE (R1-R2) COS-0
E(S2-S4)+KE (R1-R2) SIN-0

SCHEMATIC

THIS DRAWING HAS BEEN
CREATED BY CAD/CAM. DO NOT
MANUALLY REVISE OR UPDATE.

Tolerancing Complies
with ANSI/ASME
Y14.5M-1986

CHG. REVISIONS DATE APPR. CHG. REVISIONS DATE APPR. CHG. REVISIONS DATE APPR.

TOLERANCES
UNLESS SPECIFIED
DECIMAL .XXX ±.005
DECIMAL .XX ±.010
DECIMAL .X ±.030
FRACTION 21/64
ANGLES 30°/30°
D. HERRINGTON
8/25/95
8/25/95
8/25/95
9/5/95
CODE IDENT NO.
06989



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WEST CHESTER, PA.

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OUTLINE & PERFORMANCE SPECIFICATIONS

SYNCHRO-RESOLVER TRANSMITTER
(BRUSHLESS)

DWG. NO. 11BRCX-300-J10

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