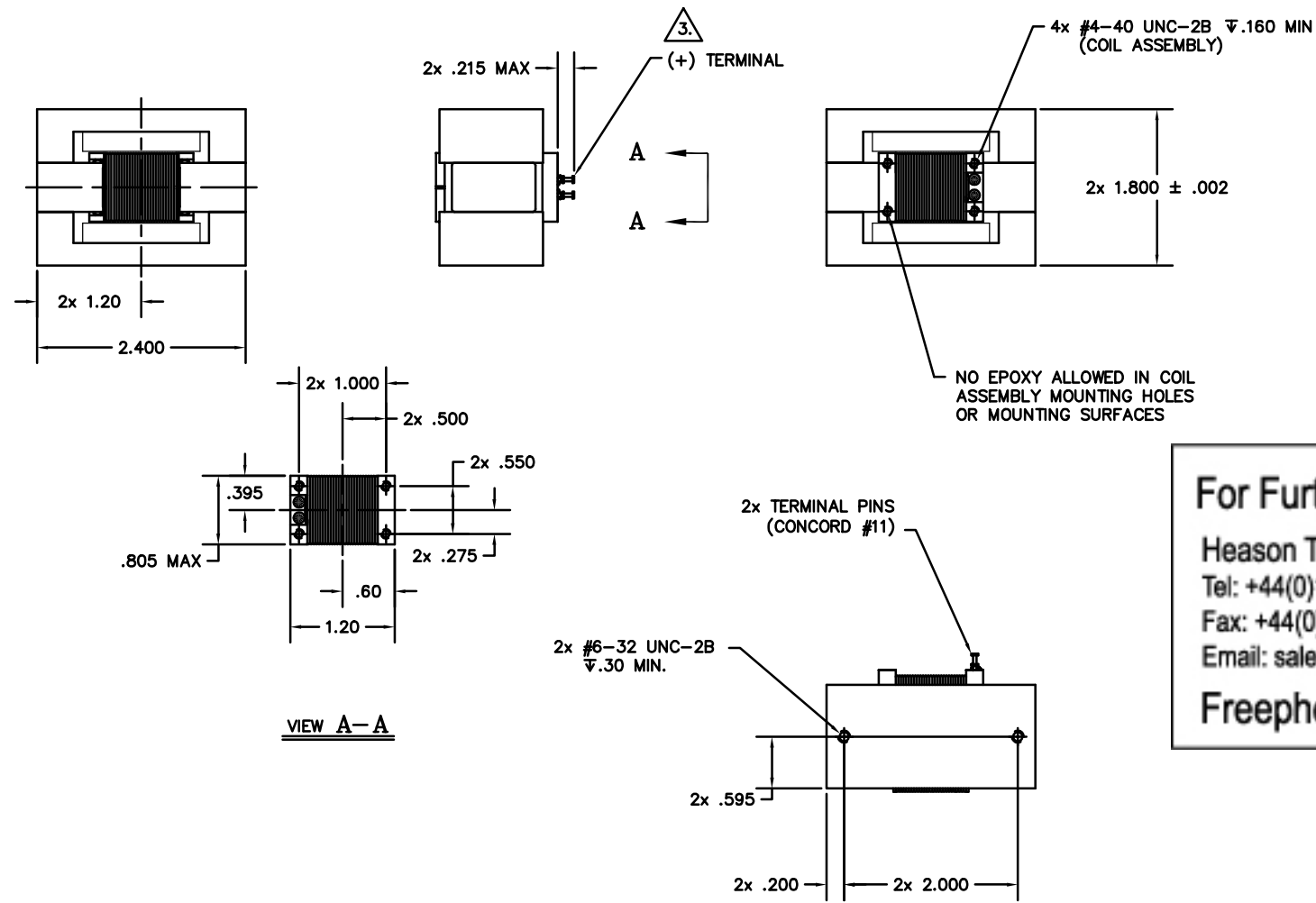
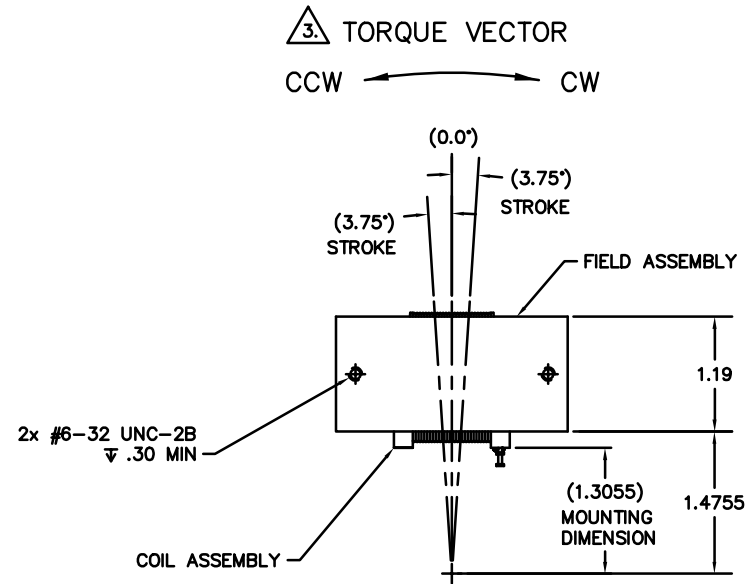


WINDING CONSTANTS	UNITS	TOL	SYM	WDG A
DC RESISTANCE	OHMS	±10%	R	12.5
VOLTAGE @ K_p	VOLTS	NOMINAL	V_c	31.3
CURRENT @ T_p	AMPERES	NOMINAL	I_c	2.5
DEMAGNETIZATION CURRENT	AMPERES	MAXIMUM	I_{max}	5.0
TORQUE SENSITIVITY	OZ-IN/AMP	±10%	K_T	105
BACK EMF CONSTANT	VOLTS/RAD/SEC	±10%	K_B	0.74
INDUCTANCE ****	MILLI-HENRY	±15%	L	11.5

ROTARY ACTUATOR PARAMETERS	UNITS	SYM	VALUE
PEAK TORQUE *	OZ-IN	T_p	262
CONTINUOUS STALL TORQUE **	OZ-IN	T_{cs}	113
ACTUATOR CONSTANT	oz-in/√WATT	K_A	29.7
ELECTRICAL TIME CONSTANT	MICRO-SEC	t_e	920
MECHANICAL TIME CONSTANT	MILLI-SEC	t_m	TBD
POWER I ² R @ T_p	WATTS	P	77.8
STROKE (ANGULAR)	± DEGREES		3.75
COIL CLEARANCE	IN		0.015
THERMAL RESISTANCE OF COIL ***	°C/WATT	θ_{th}	6.0
MAX ALLOWABLE TEMP OF COIL	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	OZ	WTc	0.85-0.95
TOTAL WEIGHT	OZ	WTt	20 MAX.

* 10 SEC @ 25°C AMBIENT, 155°C COIL TEMP
 ** 25°C AMBIENT, 155°C COIL TEMP
 *** UNIT MOUNTED IN TEST FIXTURE
 **** INDUCTANCE MEASURED WITH COIL LOCKED AT MID-STROKE WITH RESPECT TO FIELD ASSEMBLY USING SENCORE MODEL NO. LC53 CAPACITOR-INDUCTOR ANALYZER

REV	DCN NO.	DESCRIPTION	DRN	APP'D	DATE
C	01-0001	CHANGED INDUCTANCE VALUE	RRG	MG	01/04/01
D	010223	UPDATE TO AS BUILT CONDITION	RRG	MG	02/19/01
E	010338	REMOVED MARKING AT THIS LEVEL	RRG	MG	03/09/01



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3. A POSITIVE (+) VOLTAGE APPLIED TO THE + TERMINAL WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE CCW DIRECTION WHEN VIEWED AS SHOWN IN TOP VIEW.
- INSULATION RESISTANCE TO BE 100MΩ MINIMUM AT 500 VDC.
 - INTERPRET DIMENSIONS & TOLERANCES PER ANSI Y14.5M-1982.
- NOTES: UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE ANGULAR = ± 30' .X = ± .03 .XX = ± .01 .XXX = ± .005	SIZE D	FSCM NO. 55789	BEI KIMCO MAGNETICS DIVISION SAN MARCOS, CA 92069
TITLE: ROTARY ACTUATOR	DWG NO: RA54-18-000A	DRN: R. GUERRERO 08/28/00	APP'D: M. GODKIN 09/05/00
SCALE: 1/1	SHT. 1 OF 1		