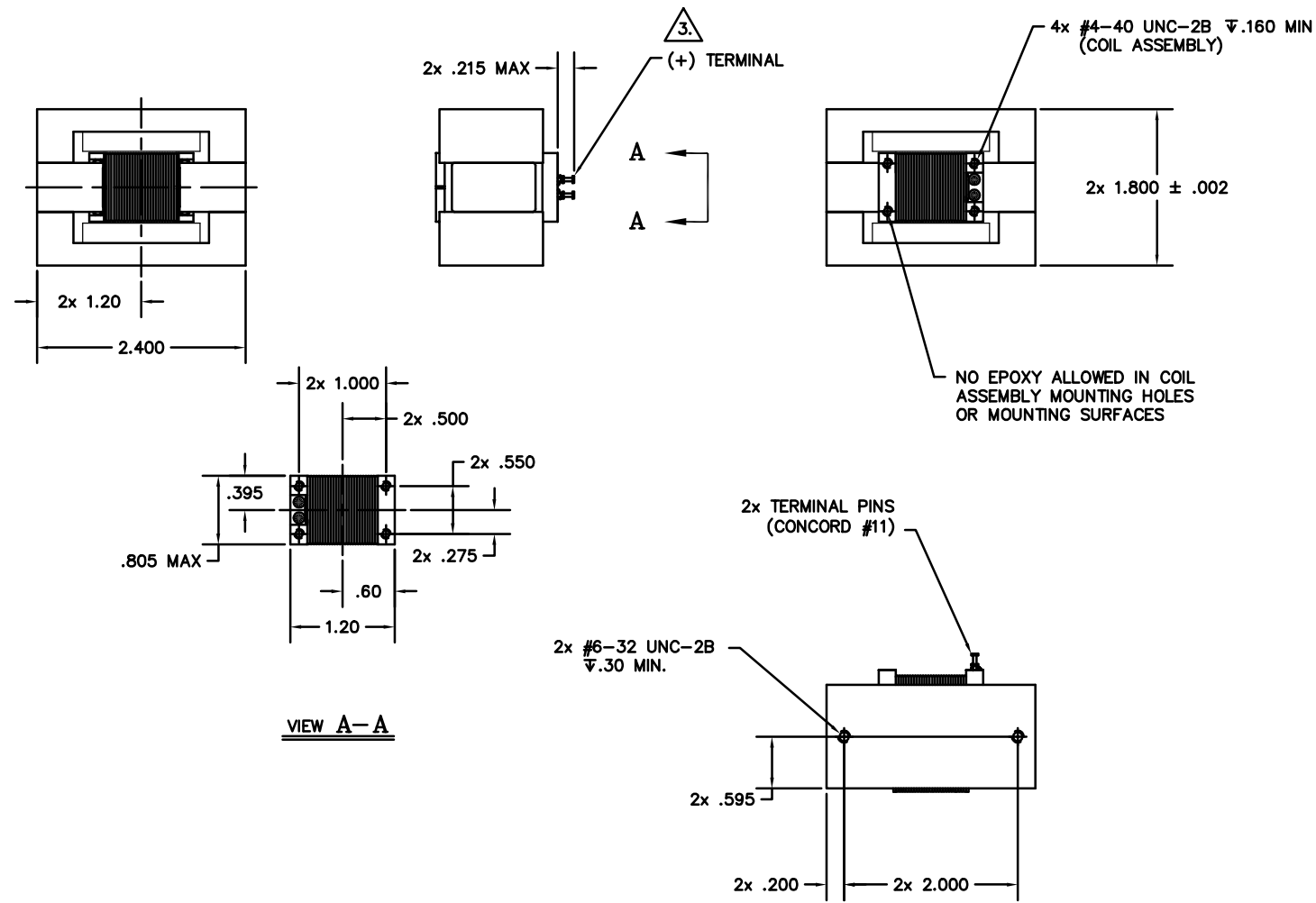
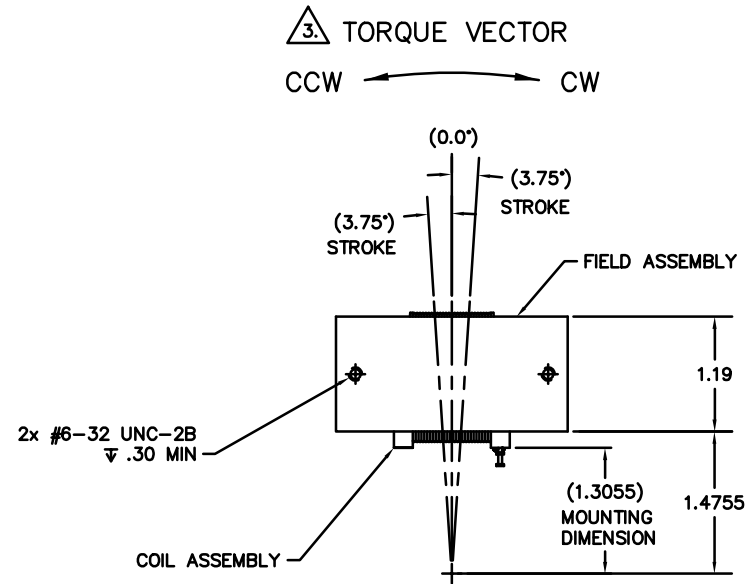


WINDING CONSTANTS	UNITS	TOL	SYM	WDG A
DC RESISTANCE	OHMS	±10%	R	12.5
VOLTAGE @ $K_p$	VOLTS	NOMINAL	$V_c$	31.3
CURRENT @ $T_p$	AMPERES	NOMINAL	$I_c$	2.5
DEMAGNETIZATION CURRENT	AMPERES	MAXIMUM	$I_{max}$	5.0
TORQUE SENSITIVITY	OZ-IN/AMP	±10%	$K_T$	105
BACK EMF CONSTANT	VOLTS/RAD/SEC	±10%	$K_B$	0.74
INDUCTANCE ****	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 <sup>2</sup> R @ $T_p$	WATTS	P	77.8
STROKE (ANGULAR)	± DEGREES		3.75
COIL CLEARANCE	IN		0.015
THERMAL RESISTANCE OF COIL ***	°C/WATT	$\theta_{th}$	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



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 <b>D</b>	FSCM NO. 55789	<b>BEI</b> KIMCO MAGNETICS DIVISION SAN MARCOS, CA 92069
TITLE: ROTARY ACTUATOR		DWG NO: RA54-18-000A		DRN: R. GUERRERO 08/28/00
SCALE: 1/1		SHT. 1 OF 1		APP'D: M. GODKIN 09/05/00