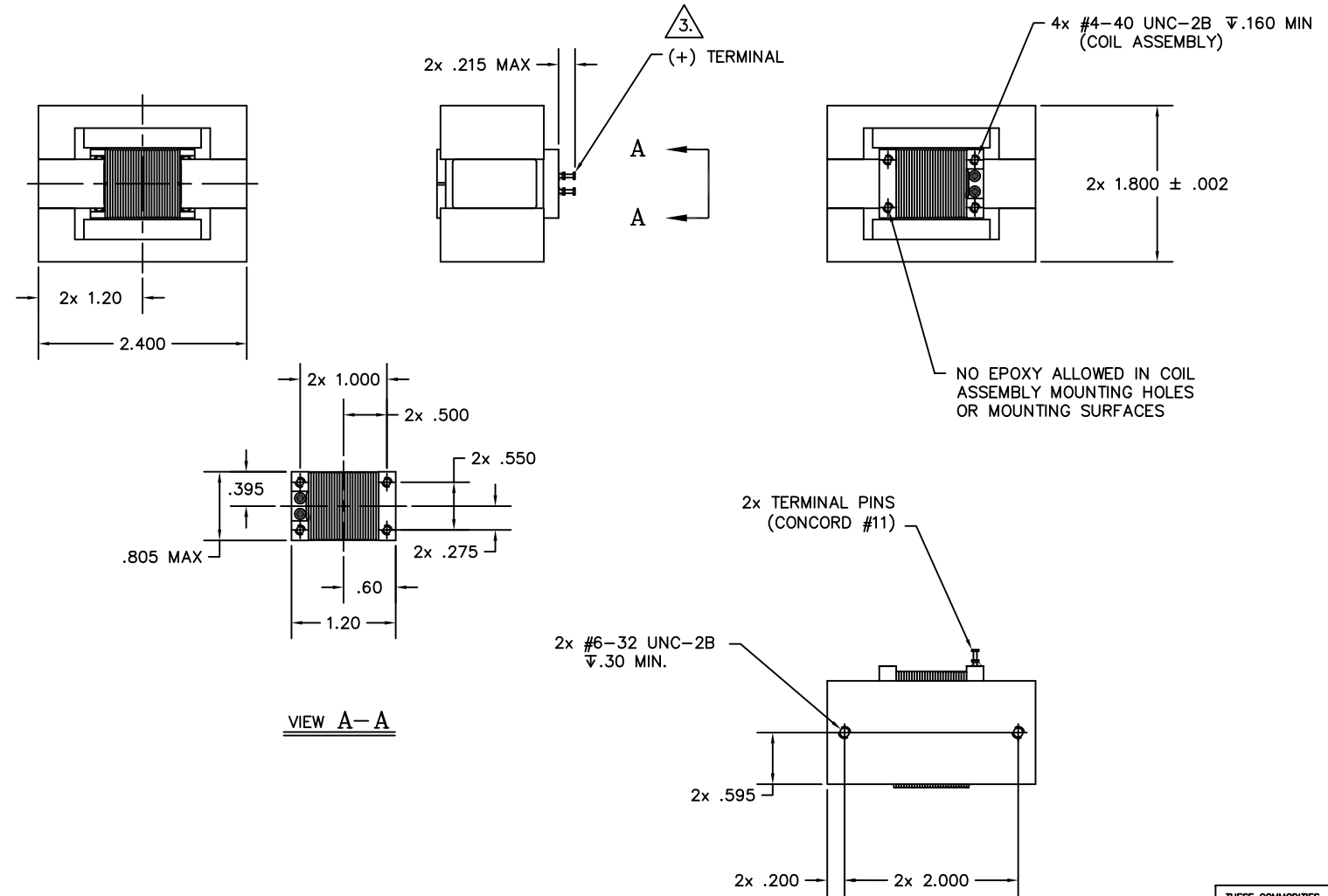
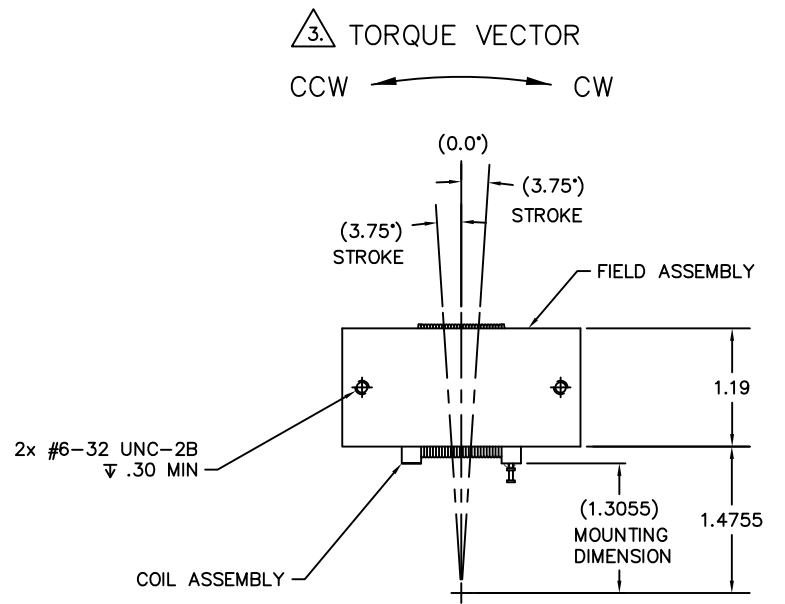


WINDING CONSTANTS	UNITS	TOL	SYM	WDG A
DC RESISTANCE	OHMS	±10%	R	12.5
VOLTAGE @ $K_p$	VOLTS	NOMINAL	$V_c$	31.3
CURRENT @ $T_p$	AMPERES	NOMINAL	$I_c$	2.5
DEMAGNETIZATION CURRENT	AMPERES	MAXIMUM	$I_{max}$	5.0
TORQUE SENSITIVITY	OZ-IN/AMP	±10%	$K_T$	105
BACK EMF CONSTANT	VOLTS/RAD/SEC	±10%	$K_B$	0.74
INDUCTANCE ****	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/ $\sqrt{WATT}$	$K_A$	29.7
ELECTRICAL TIME CONSTANT	MICRO-SEC	$\tau_E$	920
MECHANICAL TIME CONSTANT	MILLI-SEC	$\tau_M$	TBD
POWER $I^2R$ @ $T_p$	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 AT 1000 HZ

REV	DCN NO.	DESCRIPTION	DRN	APP'D	DATE
D	010223	UPDATE TO AS BUILT CONDITION	RRG	MG	02/19/01
E	010338	REMOVED MARKING AT THIS LEVEL	RRG	MG	03/09/01
H	080318	MATCH BOM REVISION LEVEL, ADD RoHS LOGO	SLM	MG	08/04/08



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.

2. INSULATION RESISTANCE TO BE 100MΩ MINIMUM AT 500 VDC.

1. INTERPRET DIMENSIONS & TOLERANCES PER ANSI Y14.5M-1982.

NOTES: UNLESS OTHERWISE SPECIFIED

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE IF EXPORTED FROM THE UNITED STATES SHALL BE IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED.



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: <b>ROTARY ACTUATOR</b>	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