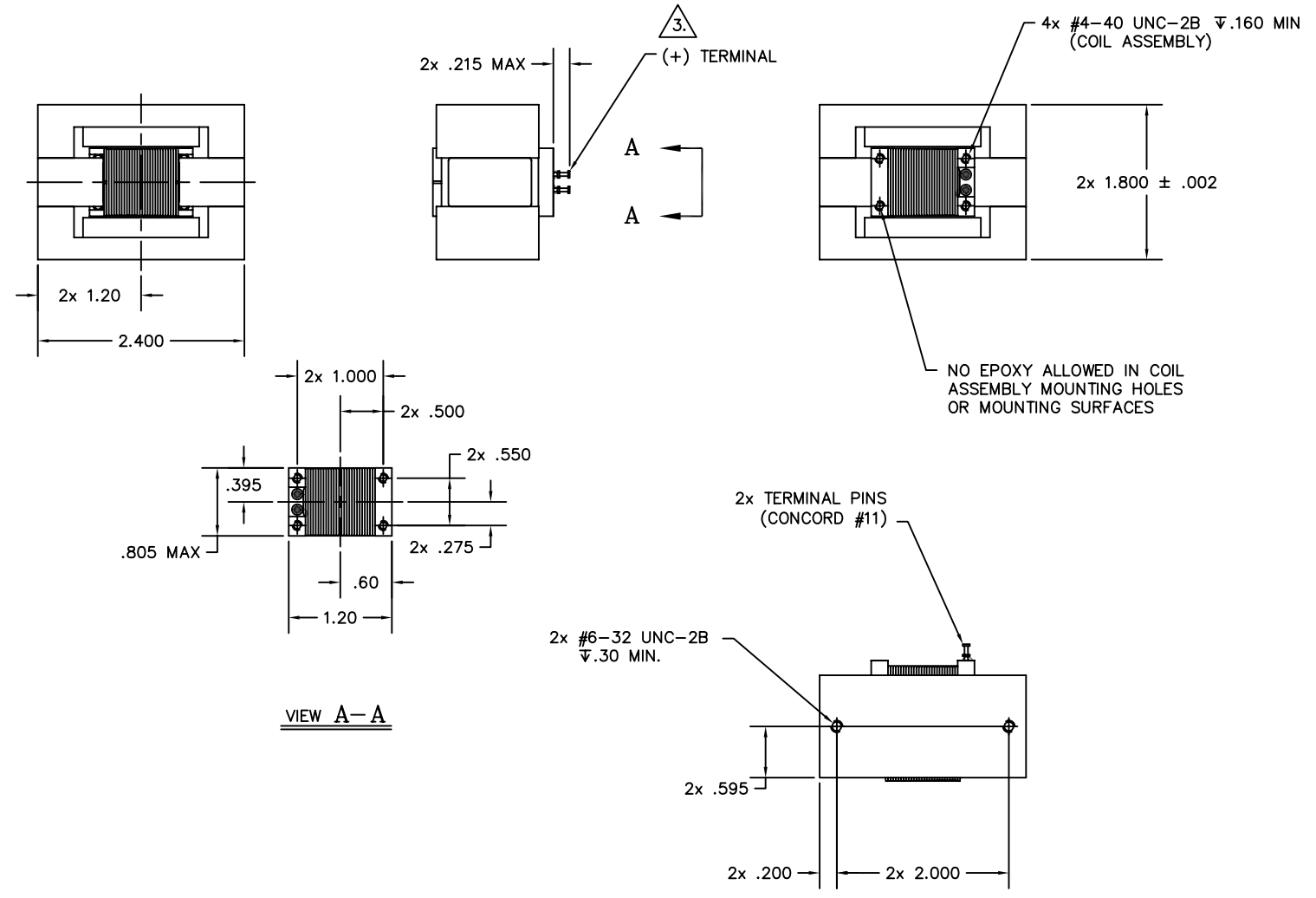
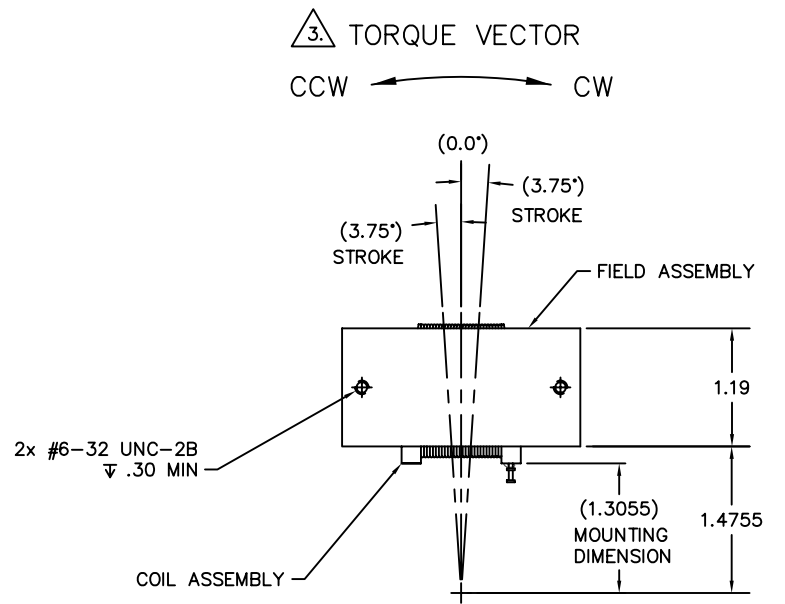


WINDING CONSTANTS	UNITS	TOL	SYM	WDG A
DC RESISTANCE	OHMS	±10%	R	12.5
VOLTAGE @ K_p	VOLTS	NOMINAL	V_c	31.3
CURRENT @ T_p	AMPERES	NOMINAL	I_c	2.5
DEMAGNETIZATION CURRENT	AMPERES	MAXIMUM	I_{max}	5.0
TORQUE SENSITIVITY	OZ-IN/AMP	±10%	K_T	105
BACK EMF CONSTANT	VOLTS/RAD/SEC	±10%	K_B	0.74
INDUCTANCE ****	MILLI-HENRY	±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	τ_e	920
MECHANICAL TIME CONSTANT	MILLI-SEC	τ_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 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



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		
SCALE: 1/1		SHT. 1 OF 1	DRN: R. GUERRERO 08/28/00 APP'D: M. GODKIN 09/05/00	