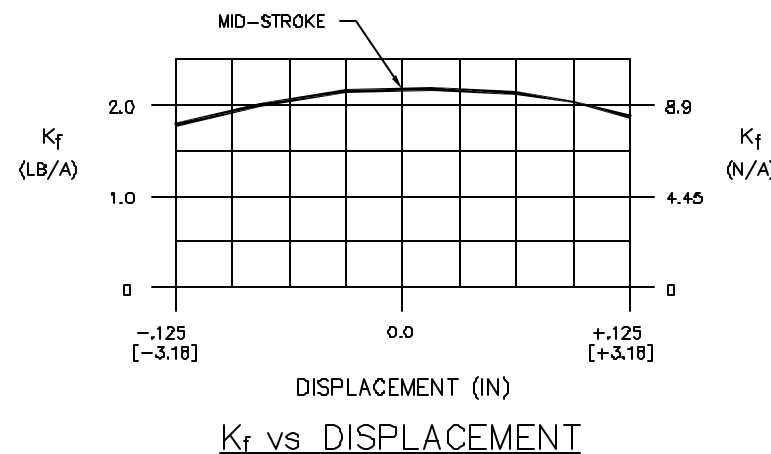


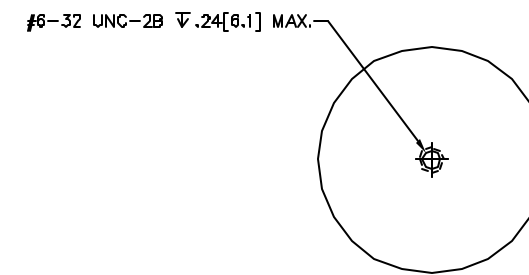
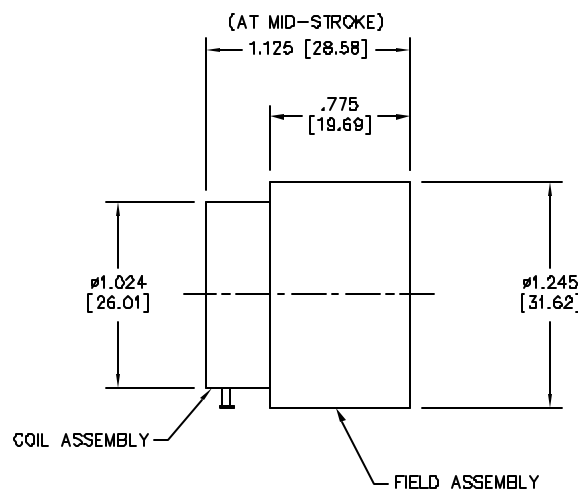
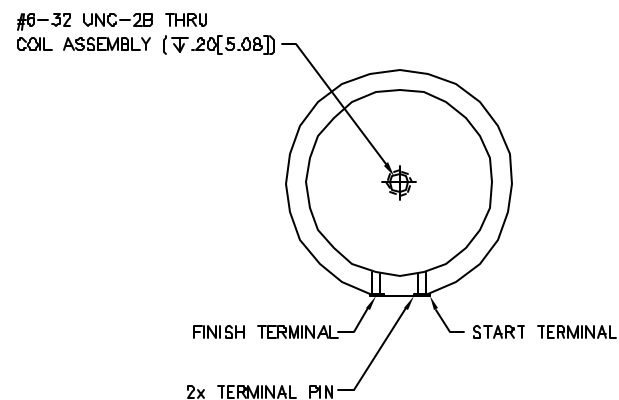
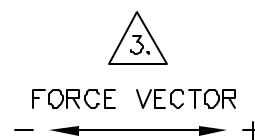
WINDING CONSTANTS *	UNITS	TOL	SYMBOL	WDG A	WDG B
DC RESISTANCE	OHMS	±12.5%	R	17.1	4.1
VOLTAGE @ F _p	VOLTS	NOMINAL	V _P	27.2	13.0
CURRENT @ F _p	AMPERES	NOMINAL	I _P	1.50	3.10
FORCE SENSITIVITY	LB/AMP	±10%	K _F	2.20	1.10
	N/AMP	±10%		0.79	4.89
BACK EMF CONSTANT	V/FT/SEC	±10%	K _B	2.00	1.49
	V/M/SEC	±10%		0.78	4.89
INDUCTANCE ****	MILLI-HENRY	±30%	L	2.8	0.67

REVISIONS					
DATE	REV	BY	DESCRIPTION	INITIALS	APPROVED
	G	060116	UPDATE TEST PARAMETERS	SLM	02/16/06 M.G.
	H	060205	UPDATE BOM OF LA13-12-000B	SLM	03/24/06 M.G.
	J	070208	CORRECT VALUE FOR ELECT. CONST.	JWT	04/17/07 M.G.

ACTUATOR PARAMETERS *	UNITS	SYMBOL	VALUE
PEAK FORCE **	LB	F _P	3.5
	N		15.6
CONTINUOUS STALL FORCE ***	LB	F _{CS}	1.6
	N		7.1
ACTUATOR CONSTANT	LB/√WATT	K _A	0.53
	N/√WATT		2.4
ELECTRICAL TIME CONSTANT	MILLI-SEC	τ _E	.164
MECHANICAL TIME CONSTANT	MILLI-SEC	τ _M	2.5
POWER I ² R @ F _p	WATTS	P _P	43.3
	± INCHES		0.125
STROKE	± MM		3.18
	IN		0.015
CLEARANCE ON EACH SIDE OF COIL	MM		0.38
	IN		0.015
THERMAL RESISTANCE OF COIL	°C/WATT	θ _{TH}	9.2
MAX. ALLOWABLE COIL TEMP.	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	OZ	WT _C	0.50
	G		14.2
WEIGHT OF FIELD ASSEMBLY	OZ	WT _F	3.6
	G		102



* AT MID-STROKE & 25°C AMBIENT TEMPERATURE
 ** 10 SECONDS AT 25°C AMBIENT & 155°C COIL TEMPERATURE
 *** 25°C AMBIENT & 155°C COIL TEMPERATURE
 **** MEASURED AT 1000 Hz



5. MECHANICAL OVERTRAVEL IN THE POSITIVE (+) DIRECTION IS .025 [.635] MINIMUM.
 4. INSULATION RESISTANCE IS 100 MEGOHMS MINIMUM AT 250 VDC.
 3. A POSITIVE (+) VOLTAGE APPLIED TO THE START TERMINAL WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.
 2. DIMENSION IN BRACKETS ARE MILLIMETERS [MM] AND ARE FOR REFERENCE ONLY.
 1. INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5M-1994.
- NOTES: UNLESS OTHERWISE SPECIFIED

THIRD ANGLE PROJECTION 	UNLESS OTHERWISE SPECIFIED: -ALL DIMENSIONS ARE IN INCHES -DIMENSIONS ARE AFTER FINISH DD NOT SCALE DRAWING	APPROVALS		DATE	TITLE
		DESIGN MCGHEE	8/1/94	LINEAR ACTUATOR	
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND IS THE PROPERTY OF BEI/KIMCO MAGNETICS DIVISION. IT MAY NOT BE REPRODUCED WITHOUT BEI/KIMCO MAGNETICS DIVISION WRITTEN PERMISSION OR USED FOR OTHER THAN AUTHORIZED PURPOSES.	TOLERANCES: DECIMALS ANGULAR .X ± 0.03 ± 0°30' .XX ± 0.01 .XXX ± 0.000	DESIGN GUERRERO	12/21/04		
		APPROVED A. MORCOS	8/2/94	SIZE D	REV J
		SCALE 2/1	DRAWING NO. LA13-12-000(LTR)	SHEET 1 OF 1	

