

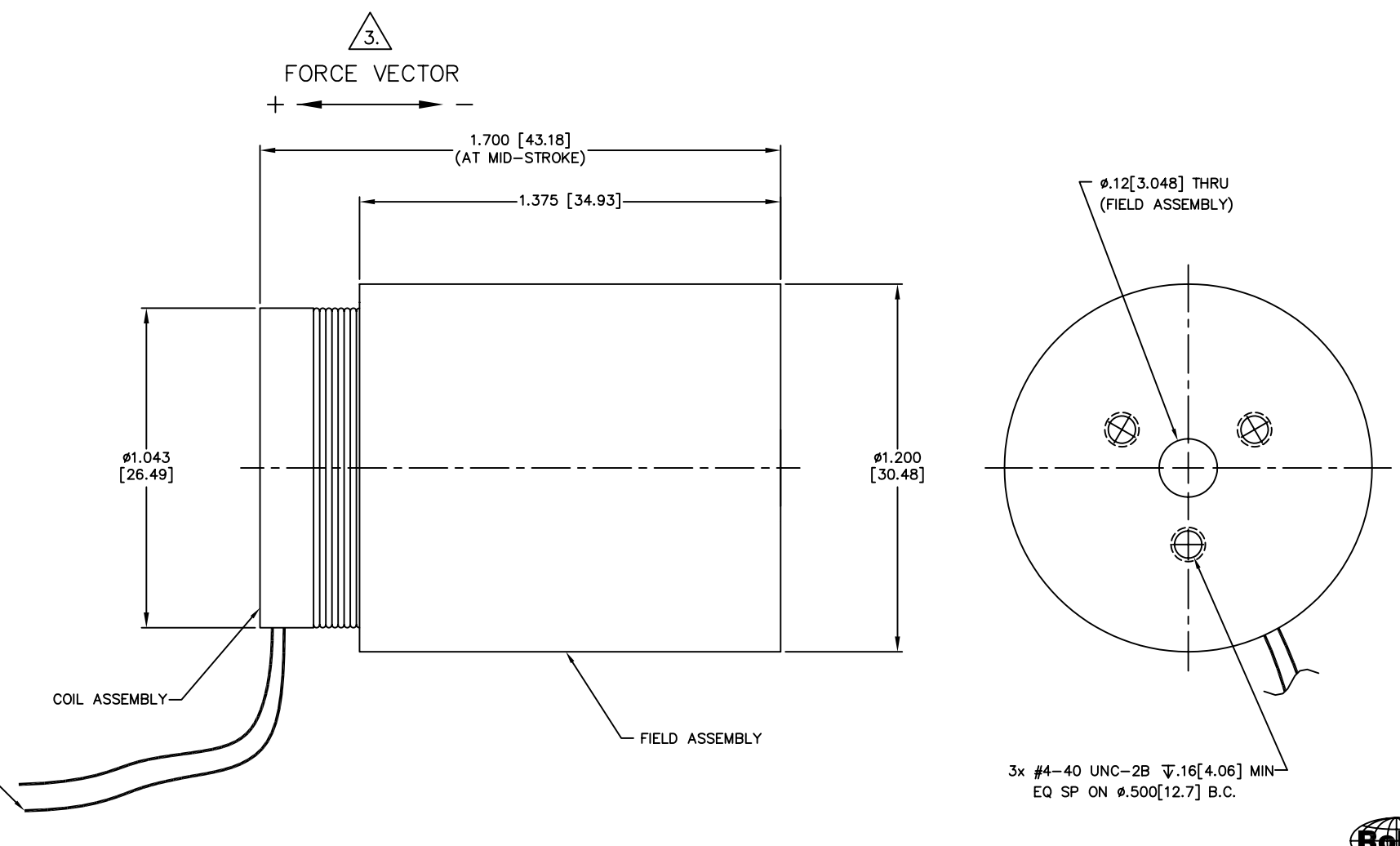
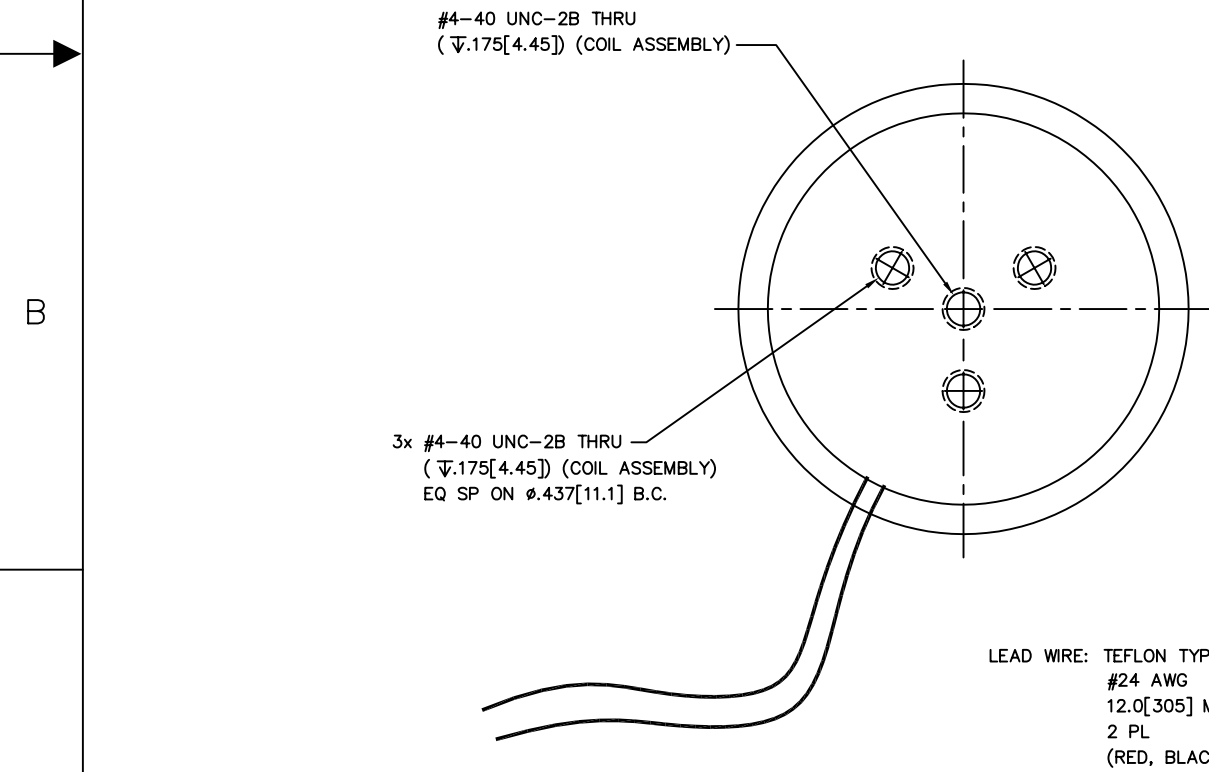
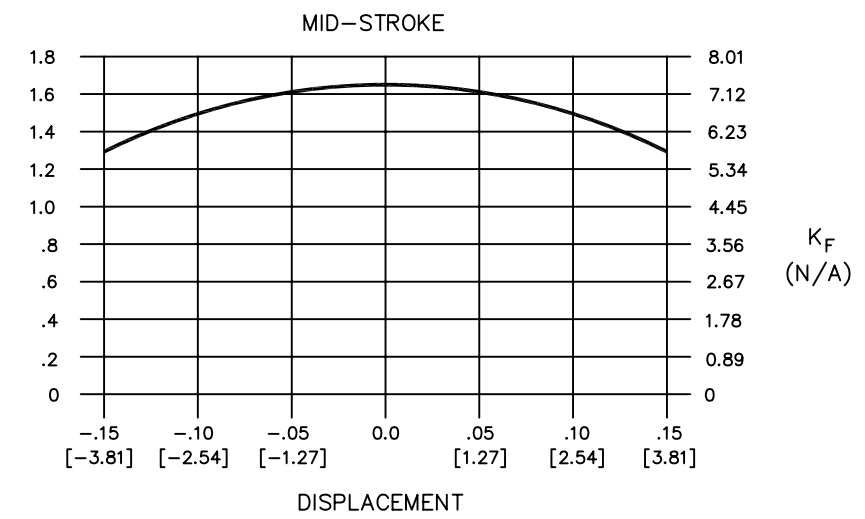
WINDING CONSTANTS *	UNITS	TOL	SYMBOL	WDG A
DC RESISTANCE	OHMS	±12.5%	R	2.8
VOLTAGE @ F_p	VOLTS	NOMINAL	V_p	17.0
CURRENT @ F_p	AMPERES	NOMINAL	I_p	6.06
FORCE SENSITIVITY	LB/AMP	±10%	K_F	1.65
	N/AMP	±10%		7.34
BACK EMF CONSTANT	V/FT/SEC	±10%	K_B	2.24
	V/M/SEC	±10%		7.35
INDUCTANCE ****	MICRO-HENRY	±15%	L	850.0

ACTUATOR PARAMETERS *	UNITS	SYMBOL	VALUE
PEAK FORCE **	LB	F_p	10.0
	N		44.5
CONTINUOUS STALL FORCE ***	LB	F_{cs}	3.5
	N		15.6
ACTUATOR CONSTANT	LB/√WATT	K_A	0.986
	N/√WATT		4.4
ELECTRICAL TIME CONSTANT	MICRO-SEC	τ_E	304.0
MECHANICAL TIME CONSTANT	MILLI-SEC	τ_M	1.7
POWER I^2R @ F_p	WATTS	P_p	102.8
STROKE	± INCHES		0.150
	± MM		3.81
CLEARANCE ON EACH SIDE OF COIL	IN		0.015
	MM		0.38
THERMAL RESISTANCE OF COIL	°C/WATT	θ_{TH}	7.0
MAX. ALLOWABLE COIL TEMP.	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	OZ	WT_C	1.15
	G		32.6
WEIGHT OF FIELD ASSEMBLY	OZ	WT_F	4.7
	G		133

* 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

FSCM NO.		DRAWING NO.		SHEET		REV	
55789		LA12-17-000A		1		G	

REVISIONS						
ZONE	REV	DCN NO.	DESCRIPTION	INITIALS	DATE	APPROVED
E	030258		UPDATE PARAMETERS	MJL	3/3/03	MG
F	060296		UPDATE TESTING VALUE, NOW RoHS	SLM	4/18/06	MG
G	080162		UPDATE INDUCTANCE	SLM	04/10/08	MG



LEAD WIRE: TEFLON TYPE E
 #24 AWG
 12.0[305] MIN LONG
 2 PL
 (RED, BLACK)

- OVERTRAVEL IN THE NEGATIVE (-) DIRECTION IS .004 [.102] MINIMUM.
 - A POSITIVE (+) VOLTAGE APPLIED TO THE RED LEAD WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.
 - DIMENSION IN BRACKETS ARE MILLIMETERS [MM] AND ARE FOR REFERENCE ONLY.
 - INTERPRET DIMENSIONS & TOLERANCES PER ANSI Y14.5M-1982.
- NOTES: UNLESS OTHERWISE SPECIFIED

THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED: -ALL DIMENSIONS ARE IN INCHES -DIMENSIONS ARE AFTER FINISH DO NOT SCALE DRAWING	BEI KIMCO MAGNETICS DIVISION VISTA, CA 92081	
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 ± 0.005	APPROVALS DATE DRAWN 10/27/94 CHECKED 4/18/06 APPROVED 11/01/94	TITLE LINEAR ACTUATOR
SCALE 4/1		SIZE FSCM NO. DRAWING NO. REV D 55789 LA12-17-000A G	SHEET 1 OF 1

