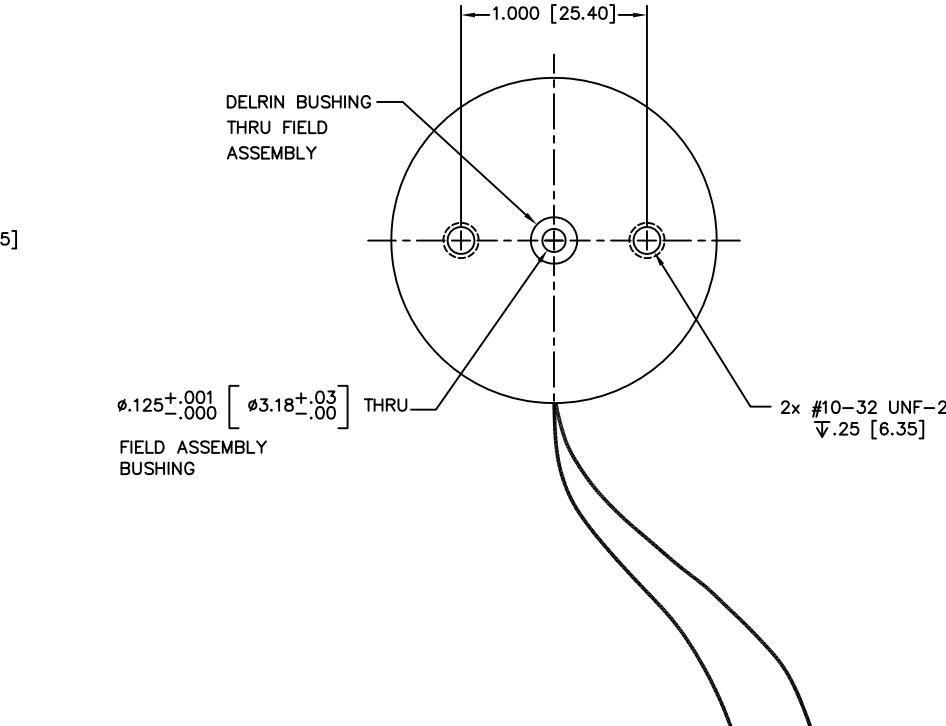
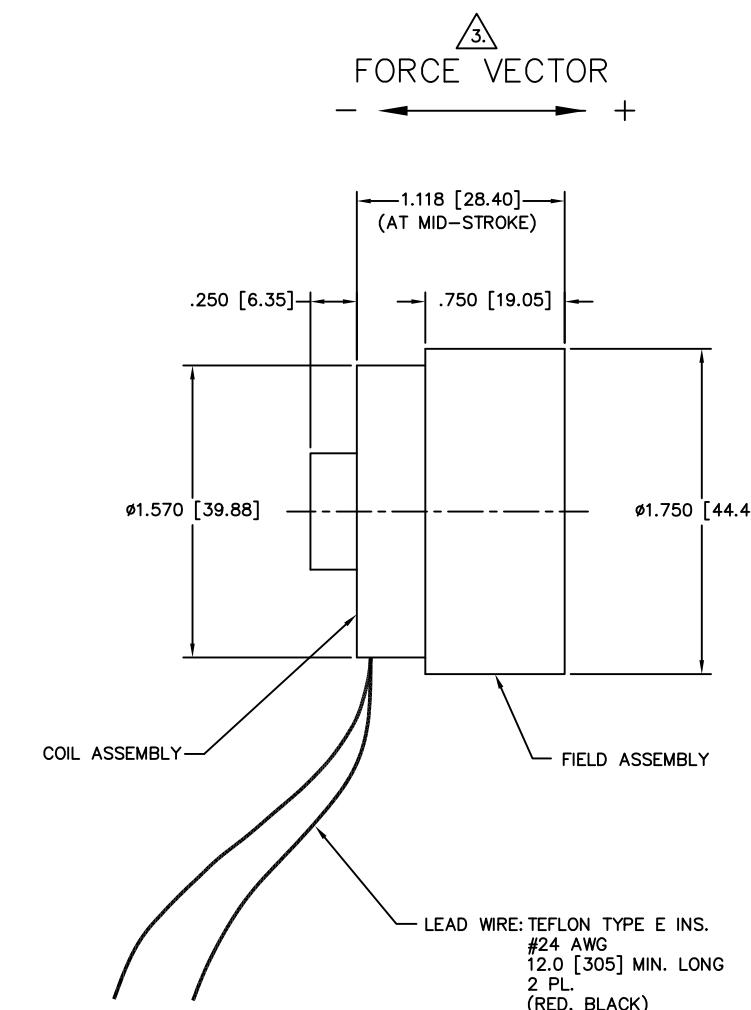
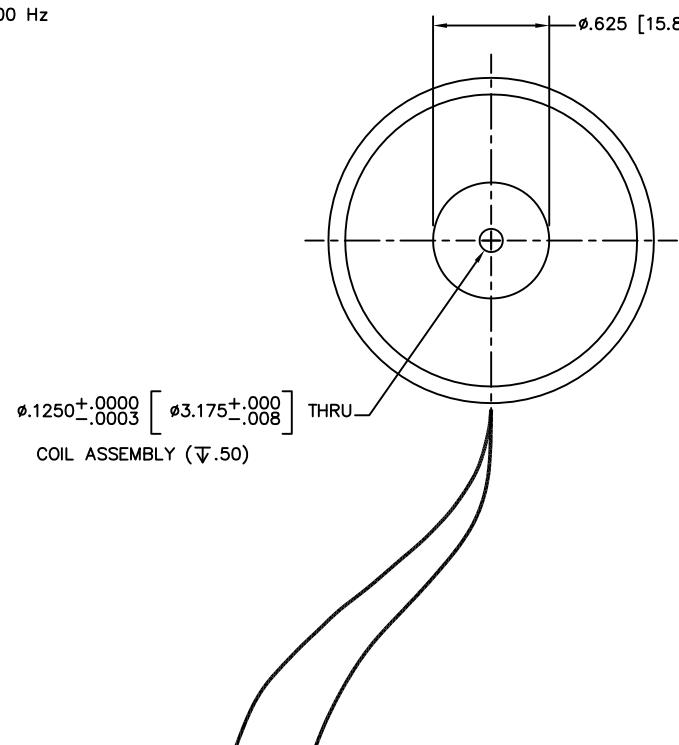


WINDING CONSTANTS *	UNITS	TOL	SYMBOL	WDG A
DC RESISTANCE	OHMS	$\pm 12.5\%$	R	2.6
VOLTAGE @ F <sub>P</sub>	VOLTS	NOMINAL	V <sub>P</sub>	16.3
CURRENT @ F <sub>P</sub>	AMPERES	NOMINAL	I <sub>P</sub>	6.25
FORCE SENSITIVITY	LB/AMP	$\pm 10\%$	K <sub>F</sub>	1.76
	N/AMP	$\pm 10\%$		7.83
BACK EMF CONSTANT	V/FT/SEC	$\pm 10\%$	K <sub>B</sub>	2.39
	V/M/SEC	$\pm 10\%$		7.83
INDUCTANCE****	MILLI-HENRY	$\pm 15\%$	L	1.0

ACTUATOR PARAMETERS*	UNITS	SYMBOL	VALUE
PEAK FORCE **	LB	F <sub>P</sub>	11.0
	N		48.93
CONTINUOUS STALL FORCE ***	LB	F <sub>CS</sub>	3.44
	N		15.3
ACTUATOR CONSTANT	LB/√WATT	K <sub>A</sub>	1.09
	N/√WATT		4.86
ELECTRICAL TIME CONSTANT	MILLI-SEC	T <sub>E</sub>	0.38
MECHANICAL TIME CONSTANT	MILLI-SEC	T <sub>M</sub>	2.0
POWER I <sup>2</sup> R @ F <sub>P</sub>	WATTS	P <sub>P</sub>	102
STROKE	± INCHES		0.120
	± MM		3.05
CLEARANCE ON EACH SIDE OF COIL	IN		0.015
	MM		0.38
THERMAL RESISTANCE OF COIL	°C/WATT	θ <sub>TH</sub>	8.7
MAX. ALLOWABLE COIL TEMP.	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	OZ	WT <sub>C</sub>	1.66
	G		47.1
WEIGHT OF FIELD ASSEMBLY	OZ	WT <sub>F</sub>	6.2
	G		175.8

\* AT MID-STROKE POSITION AND 25°C AMBIENT  
 \*\* 10 SECONDS AT 25°C AMBIENT, 155°C COIL TEMP  
 \*\*\* 25°C AMBIENT & 155°C WINDING TEMPERATURE  
 \*\*\*\* MEASURED AT 1000 Hz

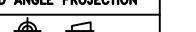


4. MECHANICAL OVERTRAVEL IN THE POSITIVE (+) DIRECTION IS .015 [.38] MINIMUM.  
 3. A POSITIVE (+) VOLTAGE APPLIED TO THE RED LEAD WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.  
 2. DIMENSION IN BRACKETS ARE MILLIMETERS [MM] AND ARE FOR REFERENCE ONLY.  
 1. INTERPRET DIMENSIONS & TOLERANCES PER ANSI Y14.5M-1994.  
 NOTES: UNLESS OTHERWISE SPECIFIED

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THIRD ANGLE PROJECTION



UNLESS OTHERWISE SPECIFIED:

-A. DIMENSIONS ARE IN UNITS  
 -BREAK SHARP EDGES AND MAX.  
 -SURFACE ROUGHNESS  $\leq 63$   
 -DIMENSIONS APPLY AFTER FINISH  
 -MAX FILLET R FILLET

BUTTERFIELD  
4/22/92

MECH CHECK  
GUERRERO  
12/21/04

APPD  
A. MORCOS  
4/22/92

FSCM NO.  
D 55789

DWG NO.  
LA18-18-000A

REV  
H

FILE NO.  
L:\TOP LEVEL\LA\...

SCALE  
2/1

SHEET  
1 OF 1

BEI KIMCO MAGNETICS DIVISION  
VISTA, CA 92081

LINEAR ACTUATOR



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