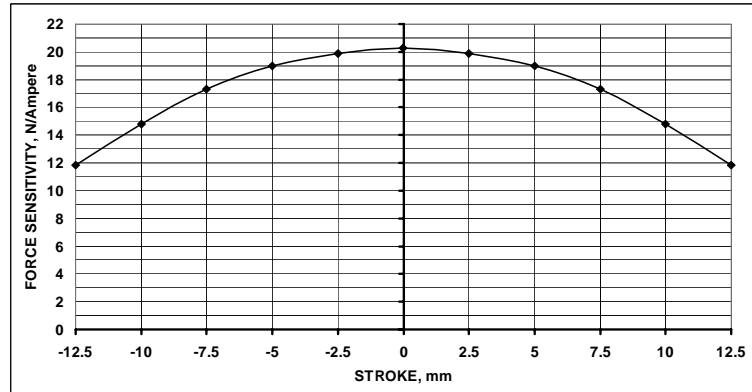


LTR	ECO NO.	DESCRIPTION	DRN	APP'D	DATE
X3	090038	REMOVE 10mm & 8mm SHAFT CONFIGURATIONS	SLM	MG	02/02/09
X4	090107	UPDATE PARAMETERS (WEIGHT & MECH. TIME CONST.)	SLM	MG	04/23/09

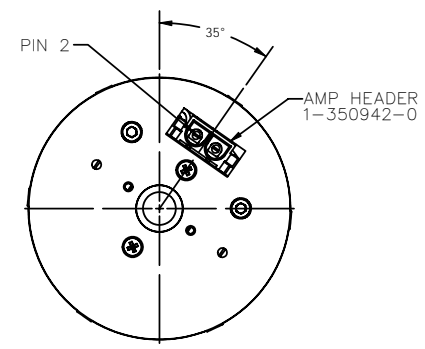
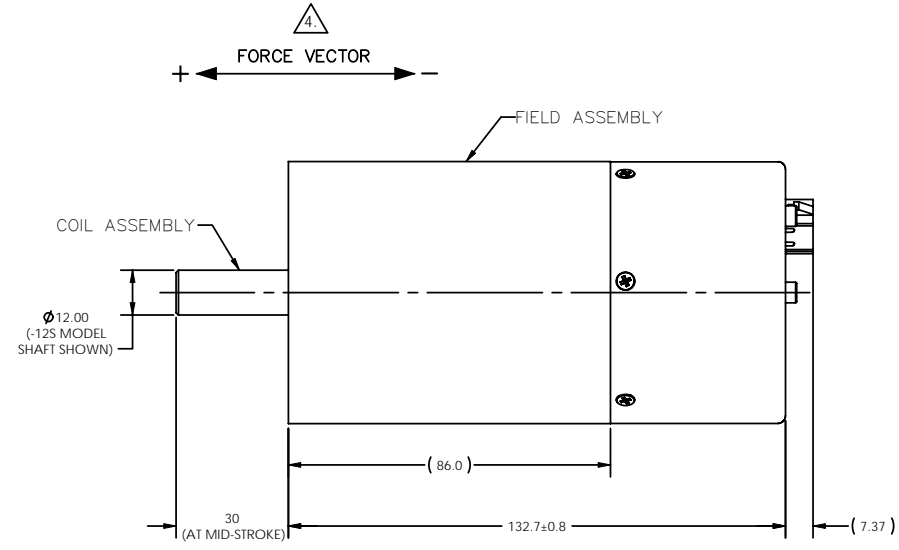
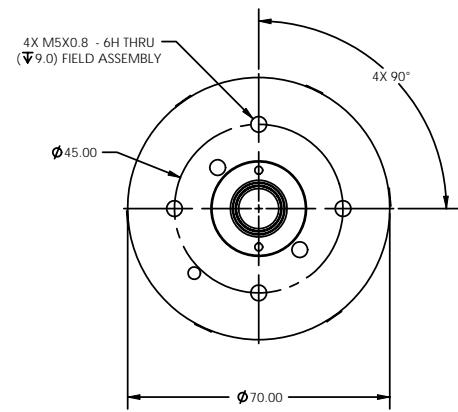


Voltage @ F _P	Volts	Nominal	V _P	31.6
Current @ F _P	Amps	Nominal	I _P	13.16
Force Sensitivity	N/Amp	± 10%	K _F	20.28
	LB/Amp	± 10%		4.56
Back EMF Constant	V/(m/sec)	± 10%	K _B	20.28
	V/(ft/sec)	± 10%		6.18
Inductance ****	milli-henry	± 30%	L	3.15

Linear Actuator Parameters *	Units	Symbol	Value
Peak Force **	N	F _P	266.9
	LB		60
Continuous Stall Force ***	N	F _{CS}	75.6
	LB		17
Actuator Constant	N/√W _{att}	K _A	13.09
	LB/√W _{att}		2.94
Electrical Time Constant	milli-sec	τ _E	1.31
Mechanical Time Constant	milli-sec	τ _M	4.3
Theoretical Acceleration	m/sec ²	a _T	360.7
	ft/sec ²		1183.4
Max Theoretical Frequency @ Full Stroke & Sinusoidal/Triangular Motion	Hz	f _{max}	26.8/29.8
Power I ² R @ F _P	Watts	P _P	416
Stroke:	± mm		12.5
	± in		0.492
Clearance on Each side of Coil	mm		1.51
	in		0.02
Thermal Resistance of Coil in still air	°C/Watt	θ _{TH}	2.6
Maximum Allowable Coil Winding Temp	°C	Temp	155
Weight of Coil Assembly *****	Kg	WT _C	0.74
	LB		1.63
Total Weight	Kg	WT _T	2.45
	LB		5.4

* AT MID-STROKE POSITION AND @ 25 °C AMBIENT TEMPERATURE
 ** 10 SECONDS @ 25 °C AMBIENT & 155 °C COIL TEMPERATURE
 *** @ 25 °C AMBIENT & 155 °C COIL TEMPERATURE
 **** MEASURED AT 1000 Hz
 ***** PARAMETERS ARE GIVEN FOR -12S MODEL

(DASH)#	DIA. OF SHAFT	SHAFT END CONFIGURATION
-12S	12mm	Standard (12mm)
-12E	12mm	External Thread M12x1.75 X 16mm Long
-12I	12mm	Internal Thread M8x1.0 X 16mm Deep



4. A POSITIVE (+) VOLTAGE APPLIED TO PIN NO. 2 WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.

3. ALL ABBREVIATIONS IAW ASME Y14.38.

2. INTERPRET DRAWING IAW ASME Y14.100.

1. INTERPRET DIMENSIONING AND TOLERANCING IAW ASME Y14.5M-1994.

NOTES: UNLESS OTHERWISE SPECIFIED

METRIC DRAWING

Proprietary rights of BEI Kimco are involved in the subject matter of this material and all manufacturing, reproduction, use, and sales pertaining to such subject matter are expressly reserved. This confidential and proprietary document is submitted for a specified purpose, and the recipient by accepting this material agrees that this material will not be used, copied, or reproduced in whole or in part nor its contents revealed in any manner or to any person except to meet the purpose for which it was delivered.	THIRD ANGLE PROJECTION	BEI KIMCO MAGNETICS DIVISION VISTA, CA 92081			
	UNLESS OTHERWISE SPECIFIED: -ALL DIMENSIONS ARE IN MILLIMETERS -BREAK SHARP EDGES 0.4 MAX -SURFACE ROUGHNESS 1.6 -DIMENSIONS APPLY AFTER FINISH -MAX FILLET R0.25 -DIAMETERS SHALL NOT EXCEED A RUNOUT OF 0.13 FIM				
	TOLERANCES: DECIMALS: X ±.2, XX ±.10 ANGULAR: ±0.30° DO NOT SCALE DRAWING	DRAWN: GUERRERO MECH CHECK: MCGHEE APPD: GODKIN FILE NO.: L:\TOP LEVEL\LAH\...	DATE: 10/01/08 10/09/08 10/09/08	TITLE: LINEAR ACTUATOR HOUSED	
	SIZE: D FSCM NO.: 55789 DWG NO.: LAH28-52-000A-(DASH) SCALE: 1/1 SHEET: 1 OF 1	REV: X4			



LAH28-52-000A-(DASH) X4