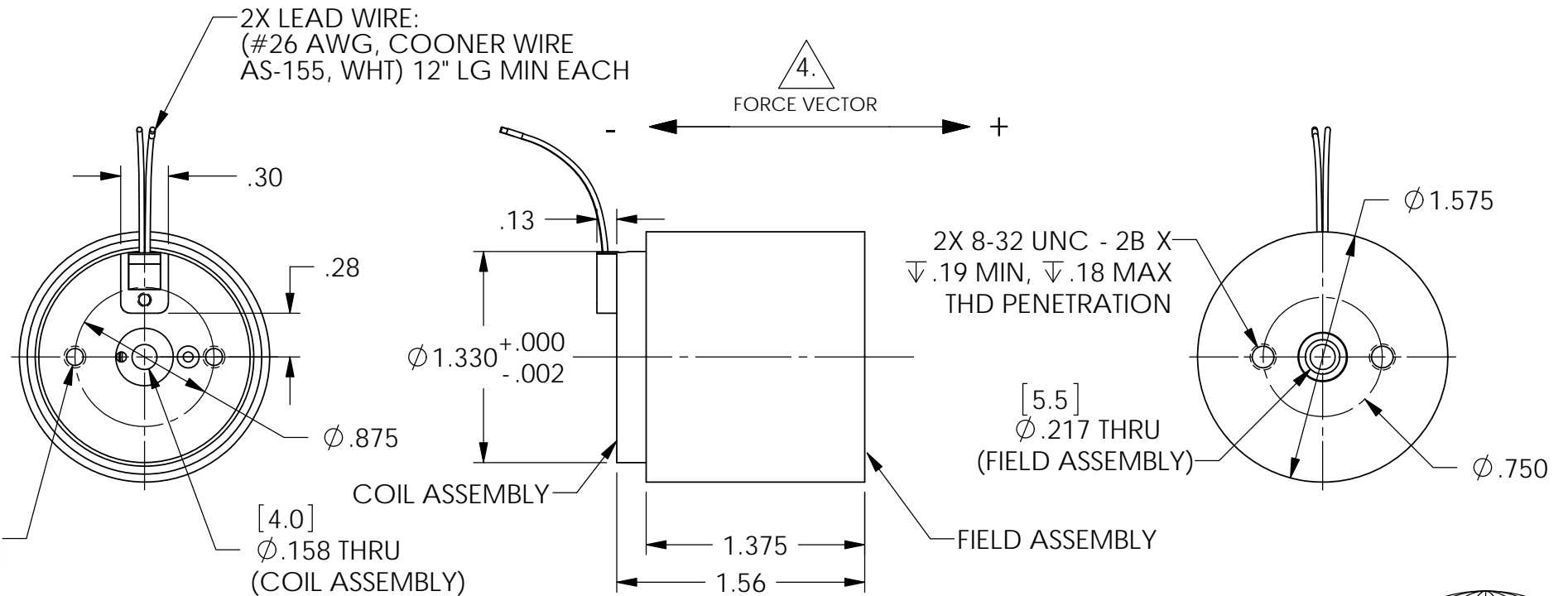
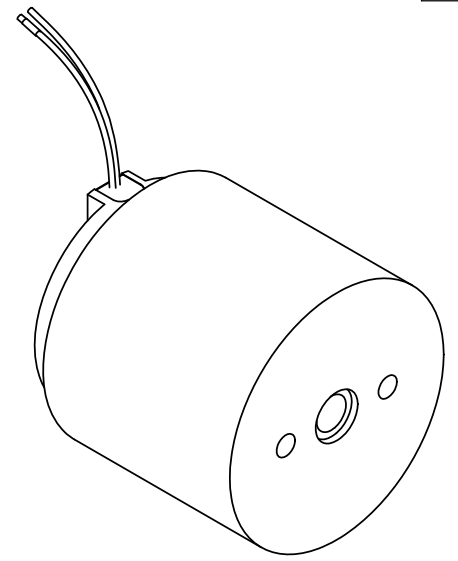


LTR	ECO NO.	DESCRIPTION	DRN	APP'D	DATE
X2	120182	FIELD THRU HOLE NOW .217	SLM	MG	08/27/12

Winding Constants *	Units	Tol	Symbol	Wdg	A
DC Resistance	Ohms	± 12.5%	R	4.7	
Voltage @ F _P	Volts	Nominal	V _P	33.0	
Current @ F _P	Amps	Nominal	I _P	7.02	
Force Sensitivity	LB/Amp	± 10%	K _F	2.85	
	N/Amp	± 10%		12.68	
Back EMF Constant	V/(ft/sec)	± 10%	K _B	3.86	
	V/(m/sec)	± 10%		12.68	
Inductance ****	milli-Henry	± 30%	L	1.25	

Linear Actuator Parameters *	Units	Symbol	Value
Peak Force **	LB	F _P	20.0
	N		89.0
Continuos Stall Force ***	LB	F _{CS}	5.5
	N		24.47
Actuator Constant	LB/√Watt	K _A	1.31
	N/√Watt		5.83
Electrical Time Constant	milli-sec	τ _E	270
Mechanical Time Constant	milli-sec	τ _M	1.29
Theoretical Acceleration	ft/sec ²	α _T	6606.2
	m/sec ²		2013.6
Max Theoretical Frequency @ Full Stroke and Sinusoidal / Triangular Motion	Hz	f _{max}	126.8/140.8
Power I ² R @ F _P	Watts	P _P	232
Stroke:	+ in		0.125
	+ mm		3.18
Clearance on Each side of Coil	in		0.018
	mm		0.46
Thermal Resistance of Coil in still air	°C/Watt	θ _{TH}	5.0
Maximum Allowable Coil Winding Temp	°C	Temp	155
Weight of Coil Assembly	OZ	WT _C	1.56
	g		44.2
Total Weight	OZ	WT _T	9.4
	g		266.5

* 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.



2X 6-32 UNC - 2B ∇ .210 MIN
 ∇ .200 MAX THD PENETRATION

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4. A POSITIVE (+) VOLTAGE APPLIED TO THE MARKED LEAD 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 DIM. AND TOL. IAW ASME Y14.5M-1994.

NOTES: UNLESS OTHERWISE SPECIFIED

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UNLESS OTHERWISE SPECIFIED:
 -ALL DIMENSIONS ARE IN INCHES
 -BREAK SHARP EDGES .015 MAX
 -SURFACE ROUGHNESS 63 ✓
 -DIMENSIONS APPLY AFTER FINISH
 -MAX FILLET R.010
 -DIAMETERS SHALL NOT EXCEED A RUNOUT OF .005 FIM

TOLERANCES:
 DECIMALS: .X ±.03, .XX ±.01, .XXX ±.005
 ANGULAR: ±0°30'
 DO NOT SCALE DRAWING

BEI KIMCO MAGNETICS DIVISION

VISTA, CA 92081

DRAWN GUERRERO	DATE 10/04/10	TITLE LINEAR ACTUATOR			
CHECK McGHEE	10/04/10	SIZE B	FSCM NO. 55789	DWG NO. LA16-16-000A	REV X2
APPD GODKIN	10/05/10	SCALE: NONE		SHEET: 1 OF 1	
FILE NO. L\TOP\L\LA\					