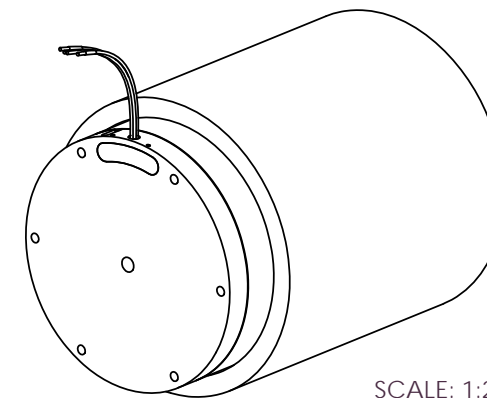
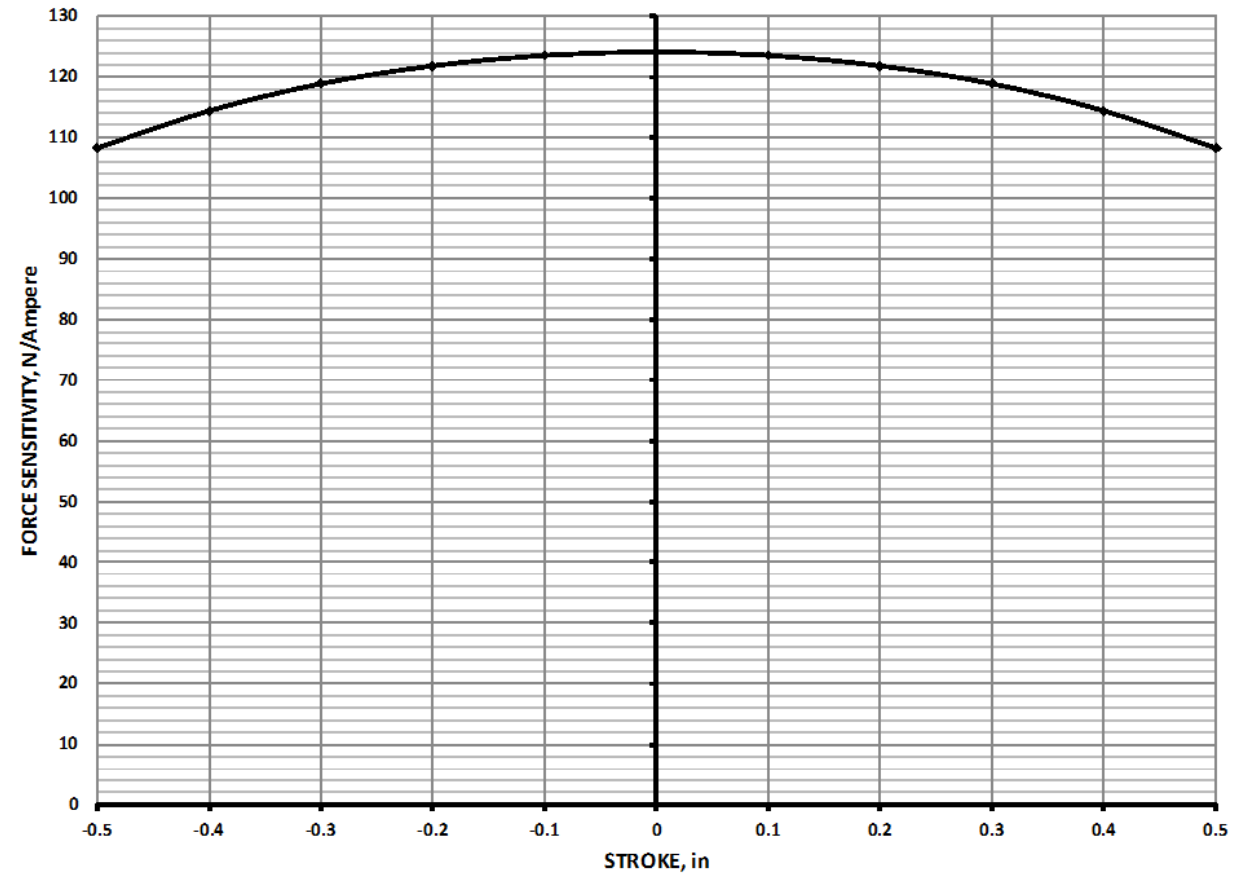


Winding Constants *	Units	Tol	Symbol	Wdg	A
DC Resistance	Ohms	+ 12.5%	R	4.6	
Voltage @ F _{PS}	Volts	Nominal	V _{PS}	69	
Current @ F _{PS}	Amps	Nominal	I _{PS}	15	
Current @ F _{CS}	Amps	Nominal	I _{CS}	4.03	
Force Sensitivity @ F _{PS}	N/Amp	+ 10%	K _{FPS}	124.07	
	lb/Amp	+ 10%		27.9	
Force Sensitivity @ No-Load	N/Amp	+ 10%	K _{FO}	124.07	
	lb/Amp	+ 10%		27.9	
Back EMF Constant	V/(m/sec)	+ 10%	K _B	124.07	
	V/(ft/sec)	+ 10%		37.82	
Inductance ****	mH	+ 15%	L	5.3	

LTR	ECO NO.	DESCRIPTION	DRN	APP'D	DATE
A	170064	INITIAL RELEASE	SLM	MG	03/20/17

Linear Actuator Parameters *	Units	Symbol	Value
Peak Stall Force**	N	F _{PS}	1861
	lb		418.4
Continuous Stall Force ***	N	F _{CS}	500
	lb		112.4
Actuator Constant	N/√Watt	K _A	57.85
	lb/√Watt		13
Electrical Time Constant	ms	τ _E	1.15
Mechanical Time Constant	ms	τ _M	0.43
Theoretical Acceleration	m/s ²	a _T	1283.4
	ft/s ²		4,211
Max Theoretical Frequency @ Full Stroke and Sinusoidal / Triangular Motion	Hz	f _{max}	50.6/56.2
Power I ² R @ F _{PS}	Watts	P _{PS}	1035
Stroke	± mm	S _L	12.7
	± in		0.5
Clearance on Each Side of Coil Assembly	mm	D _C	0.508
	in		0.02
Mass, Moving Coil Assembly	kg	M _{CA}	1.45
	lb		3.2
Thermal Resistance of Coil in still air	°C/Watt	Θ _{TH}	1.16
Maximum Allowable Coil Winding Temp	°C	T _W	155
Mass, Total	kg	M _T	11
	lb		24.3



DISCLAIMERS
 * AT MID-STROKE & 25°C AMBIENT TEMPERATURE
 ** 10 SEC @ 25°C AMBIENT & 155°C WINDING TEMPERATURE
 *** AT 25°C AMBIENT & 155°C WINDING TEMPERATURE
 **** MEASURED AT 1000 Hz

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE IF EXPORTED FROM THE UNITED STATES SHALL BE IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED

THIRD ANGLE PROJECTION

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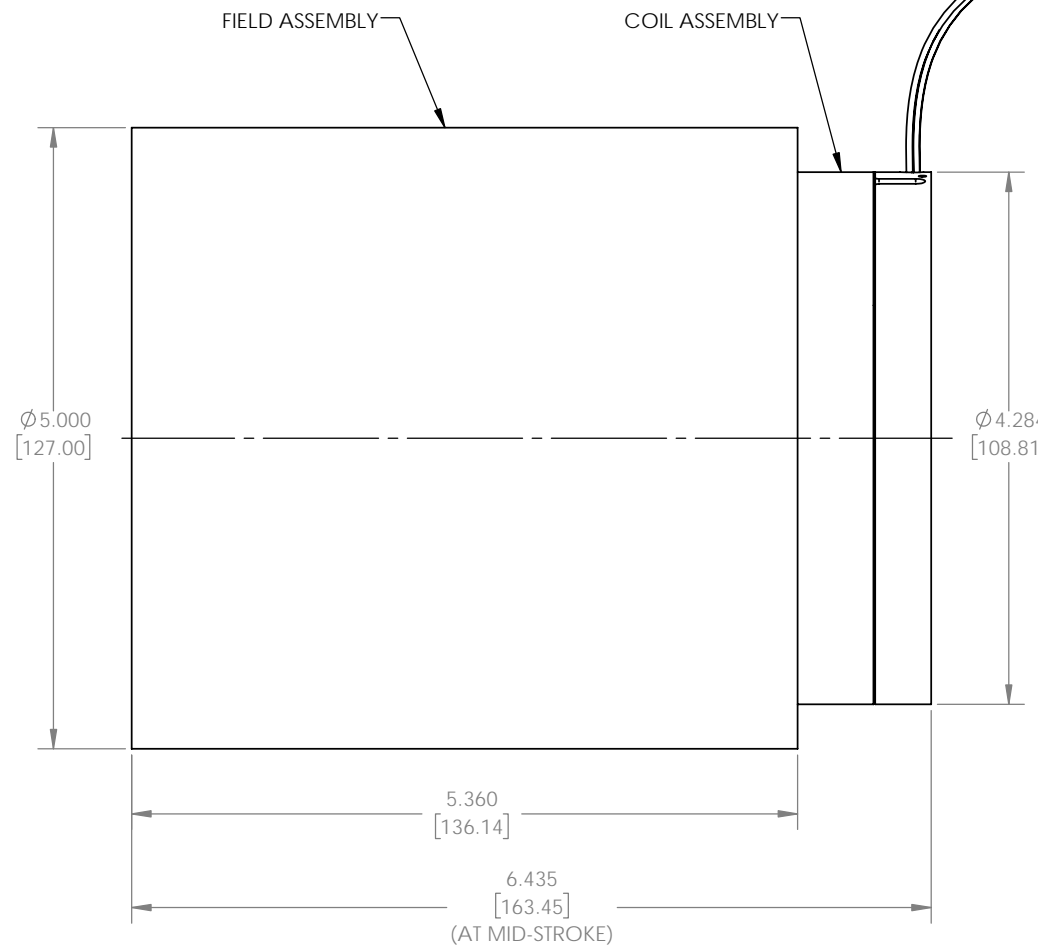
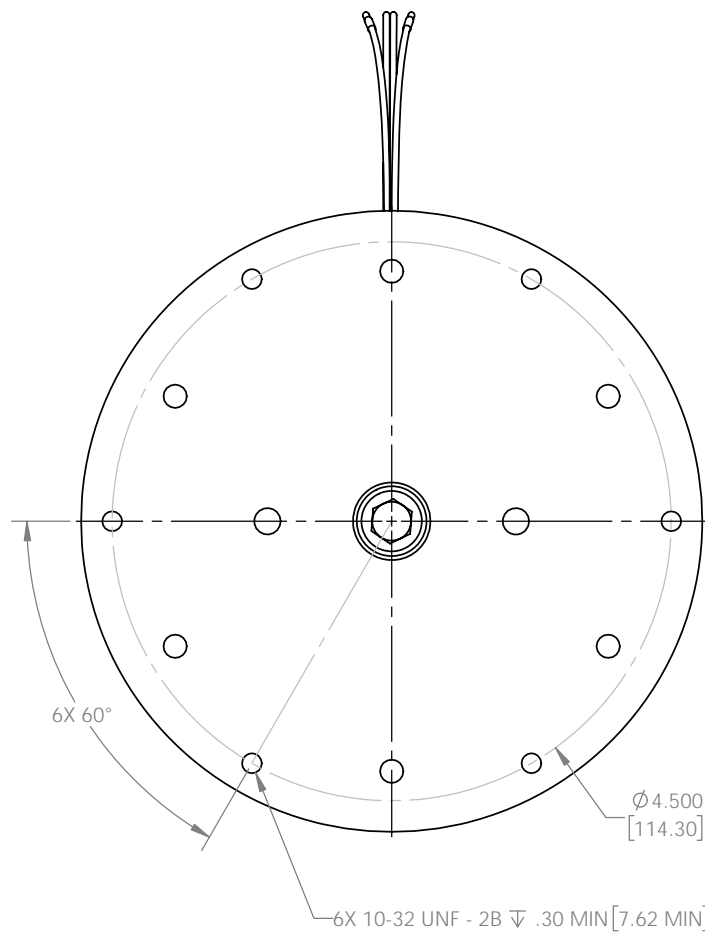
UNLESS OTHERWISE SPECIFIED:
 -ALL DIMENSIONS ARE IN INCHES
 -BREAK SHARP EDGES .015 MAX
 -SURFACE ROUGHNESS 63 ✓
 -DIMENSIONS APPLY AFTER FINISH
 -MAX FILLET R.010
 -DIAMETERS SHALL NOT EXCEED A RUNOUT OF .005 FIM

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

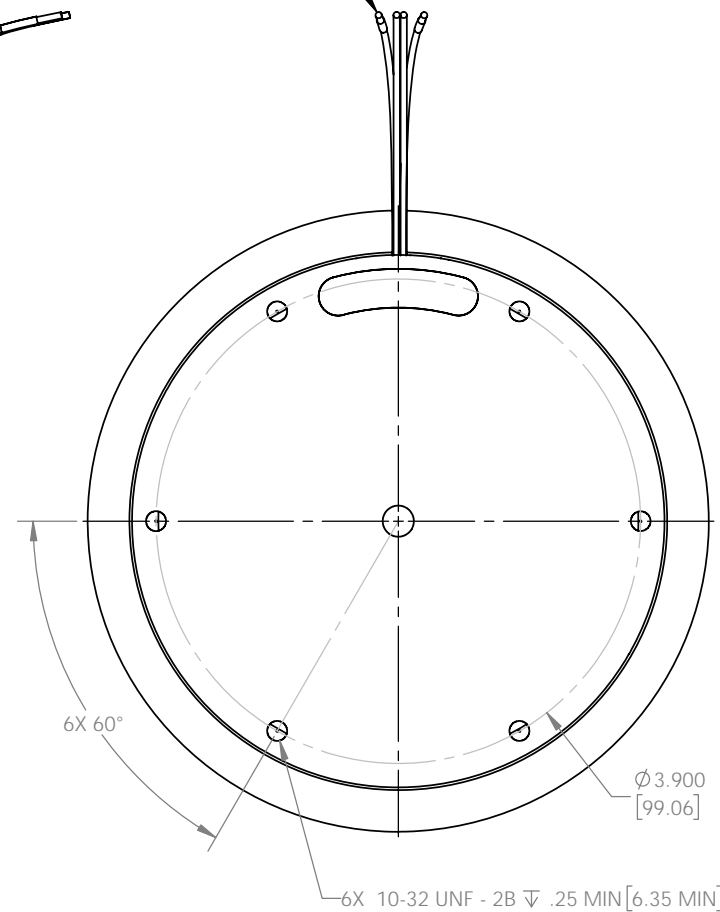


DRAWN MCGHEE	DATE 03/10/17	TITLE LINEAR ACTUATOR			
CHECK GUERRERO	03/20/17	SIZE C	FSCM NO. 55789	DWG NO. LA50-65-000A	REV A
APP'D M. GODKIN	03/20/17	SCALE: NONE			
FILE NO. L:\TOP LEVEL\LA\...	EWIF-013-01		REV. A	SHEET: 1 OF 2	

REVISION HISTORY
SEE PAGE 1



LEAD WIRE: COONER AS-999
 4X #22 AWG PARALLEL LEADS
 12.0" [305] MIN LONG
 2 LEAD WIRES MARKED WITH
 BLACK SHRINK TUBING



NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING IAW ASME Y14.5M-1994.
2. INTERPRET DRAWING IAW ASME Y14.100.
3. ALL ABBREVIATIONS IAW ASME Y14.38.
4. INCH DRAWING. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY.
5. A POSITIVE (+) VOLTAGE APPLIED TO THE MARKED LEADS WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE IF EXPORTED FROM THE UNITED STATES SHALL BE IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED

THIRD ANGLE PROJECTION	SIZE	FSCM NO.	DWG NO.	REV
	C	55789	LA50-65-000A	A
FILE NO: L:\TOP LEVEL\LA\...	SCALE: NONE	EWIF-013-01 REV. A	SHEET: 2 OF 2	



A