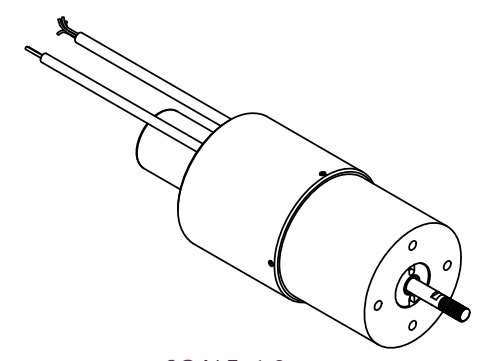


Winding Constants *	Units	Tol	Symbol	Wdg	A
DC Resistance	Ohms	± 12.5%	R		3.4
Voltage @ F <sub>PS</sub>	Volts	Nominal	V <sub>PS</sub>		35.4
Current @ F <sub>PS</sub>	Amps	Nominal	I <sub>PS</sub>		10.4
Current @ F <sub>CS</sub>	Amps	Nominal	I <sub>CS</sub>		2.26
Force Sensitivity @ F <sub>PS</sub>	N/Amp	± 10%	K <sub>FPS</sub>		10.27
	lb/Amp	± 10%			2.31
Force Sensitivity @ No-Load	N/Amp	± 10%	K <sub>F0</sub>		10.27
	lb/Amp	± 10%			2.31
Back EMF Constant	V/(m/sec)	± 10%	K <sub>B</sub>		10.27
	V/(ft/sec)	± 10%			3.13
Inductance ****	mH	± 15%	L		1.82

Linear Actuator Parameters *	Units	Symbol	Value
Peak Stall Force**	N	F <sub>PS</sub>	106.7
	lb		24
Continuous Stall Force ***	N	F <sub>CS</sub>	23.2
	lb		5.2
Actuator Constant	N/√Watt	K <sub>A</sub>	5.57
	lb/√Watt		1.25
Electrical Time Constant	ms	τ <sub>E</sub>	0.535
Mechanical Time Constant	ms	τ <sub>M</sub>	5.6
Theoretical Acceleration	m/s <sup>2</sup>	a <sub>T</sub>	616.8
	ft/s <sup>2</sup>		2,023.5
Max Theoretical Frequency @ Full Stroke and Sinusoidal / Triangular Motion	Hz	f <sub>max</sub>	35.4/39.3
Power I <sup>2</sup> R @ F <sub>PS</sub>	Watts	P <sub>PS</sub>	367.7
Stroke	± mm	S <sub>L</sub>	12.7
	± in		0.5
Mass, Moving Coil Assembly	kg	M <sub>CA</sub>	0.173
	lb		0.38
Thermal Resistance	°C/Watt	θ <sub>TH</sub>	5
Maximum Allowable Winding Temp	°C	T <sub>W</sub>	155
Mass, Total	kg	M <sub>FA</sub>	1.08
	lb		2.38

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

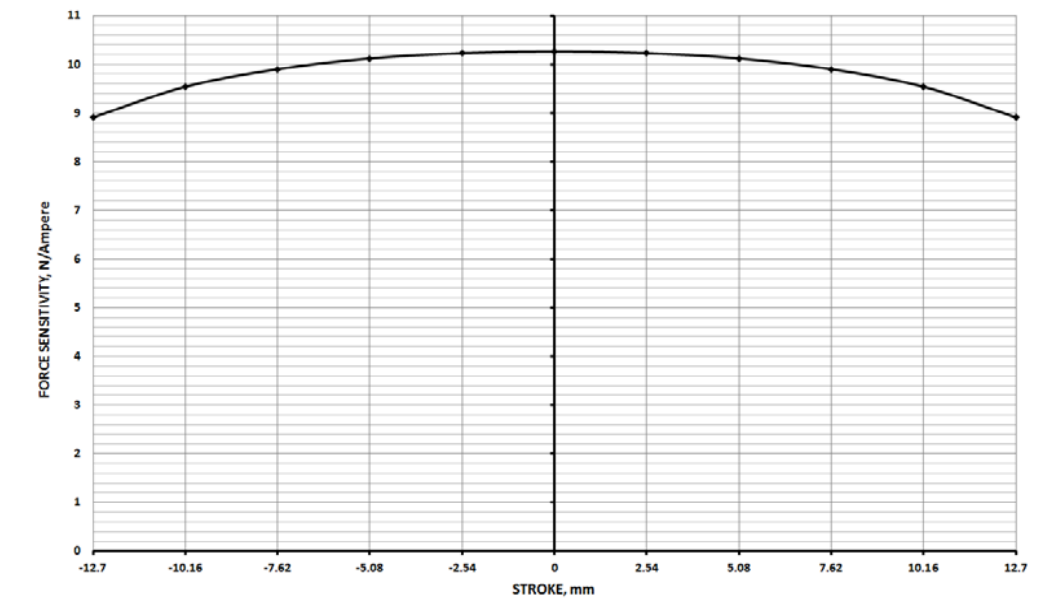
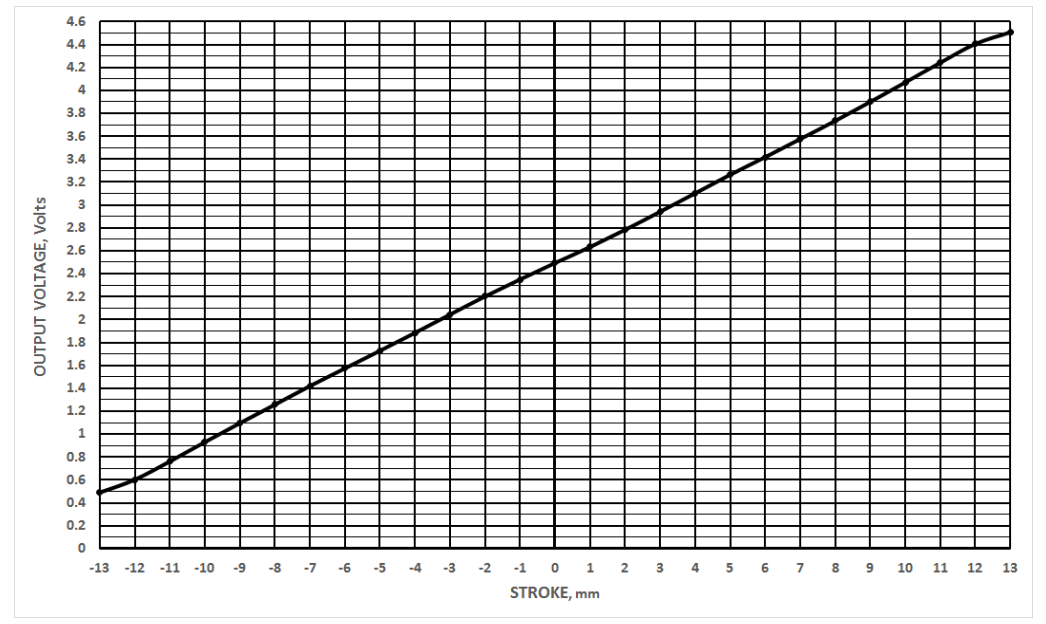


SCALE: 1:2

**METRIC DRAWING**

(DASH)	SHAFT END CONFIGURATION
6I	6mm Diameter, Internal Thread M4x0.7 X 12 mm Deep
6E	6mm Diameter, External Thread M6x1.0 X 12mm Long

POSITION SENSOR		
LEAD WIRE	IDENTIFICATION	DESCRIPTION
RED	V <sub>CC</sub>	INPUT VOLATAGE ( 5 VOLTS)
GREEN	GND	GROUND
BLACK	V <sub>O</sub>	OUTPUT VOLTAGE
WHITE	V <sub>PP</sub>	VOLTAGE FOR PROGRAMMING ONLY, NOT TO BE USED BY CUSTOMER



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THIRD ANGLE PROJECTION

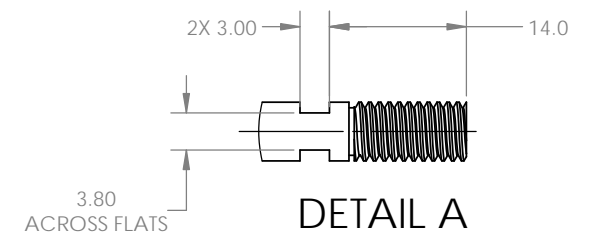
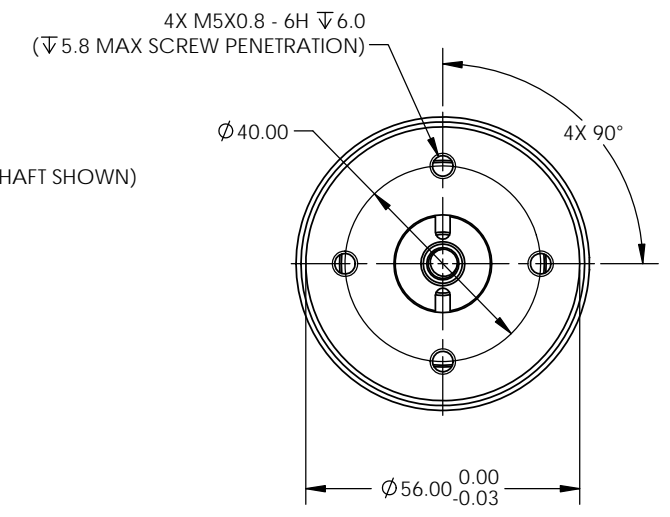
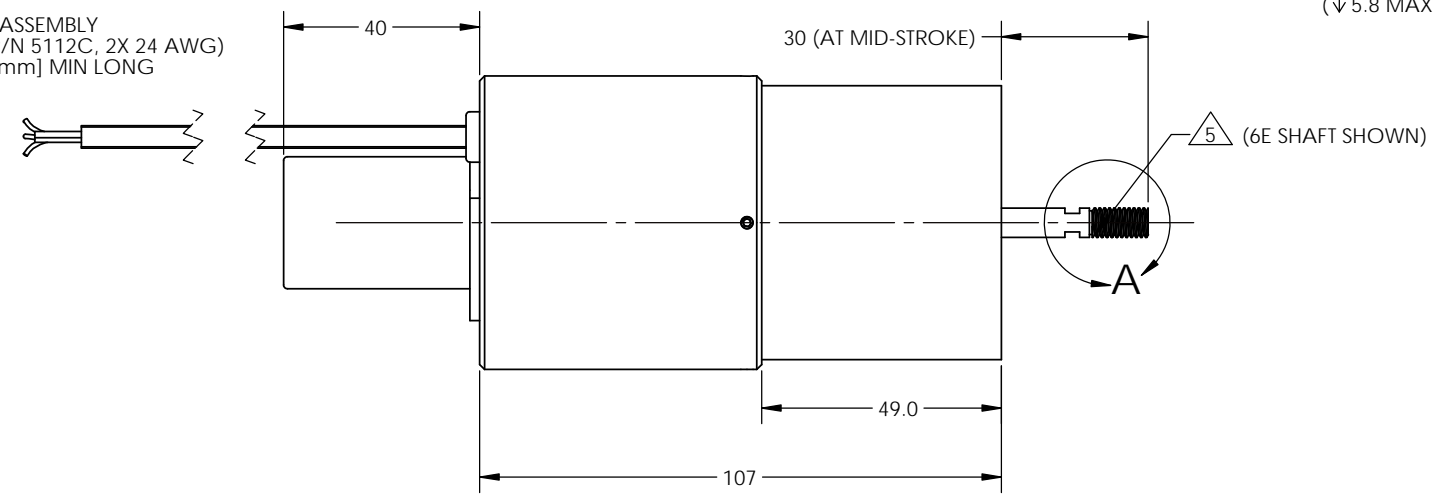
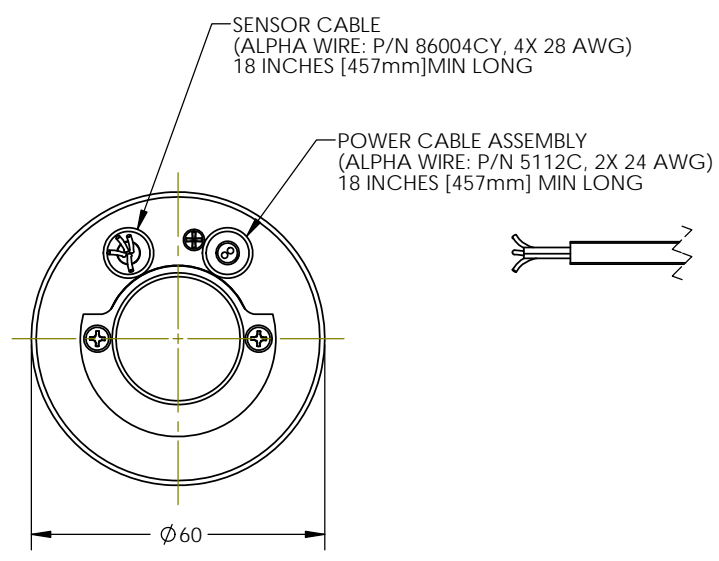
UNLESS OTHERWISE SPECIFIED:  
 -ALL DIMENSIONS ARE IN MM  
 -BREAK SHARP EDGES 0.4 MAX  
 -SURFACE ROUGHNESS √1.6  
 -DIMENSIONS APPLY AFTER FINISH  
 -MAX FILLET R0.4

MILLIMETER TOLERANCES:  
 DECIMALS ANGULAR  
 X ±0.8 ±0°30'  
 0.X ±0.25  
 0.XX ±0.13  
 DO NOT SCALE DRAWING

# LINEAR ACTUATOR SYSTEM

DRAWN GUERRERO	DATE 05/02/16	TITLE LINEAR ACTUATOR SYSTEM	
CHECK MCGHEE	DATE 05/02/16	SIZE C	REV X3
APPD GODKIN	DATE 05/02/16	FSCM NO. 55789	DWG NO. LAS22-42-000A-P01-DASH
FILE NO. L\TOP LEVEL\LAS\		SCALE: NONE	EWIF-013-02 REV. A SHEET: 1 OF 2

REVISION HISTORY
SEE PAGE 1



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. METRIC DRAWING, DIMENSIONS IN BRACKETS [ ] ARE IN INCHES AND ARE FOR REFERENCE ONLY.
5. -6E SHAFT CONFIGURATION SHOWN.
6. A POSITIVE (+) VOLTAGE APPLIED TO BROWN LEAD ON THE POWER CABLE ASSEMBLY WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.

**METRIC DRAWING**

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THIRD ANGLE PROJECTION	SIZE	FSCM NO.	DWG NO.	REV
	C	55789	LAS22-42-000A-P01-DASH	X3
FILE NO: L\TOP LEVEL\LAS\	SCALE: NONE	EWIF-013-02 REV. A	SHEET: 2 OF 2	