

1

2

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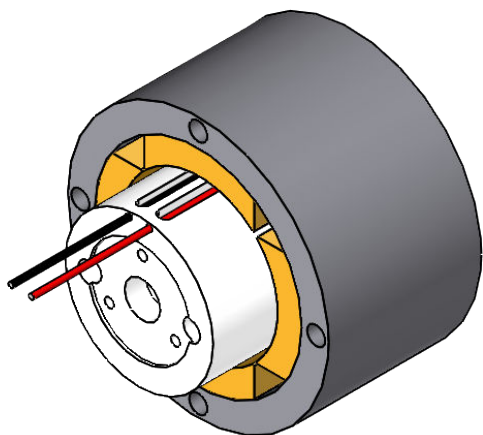
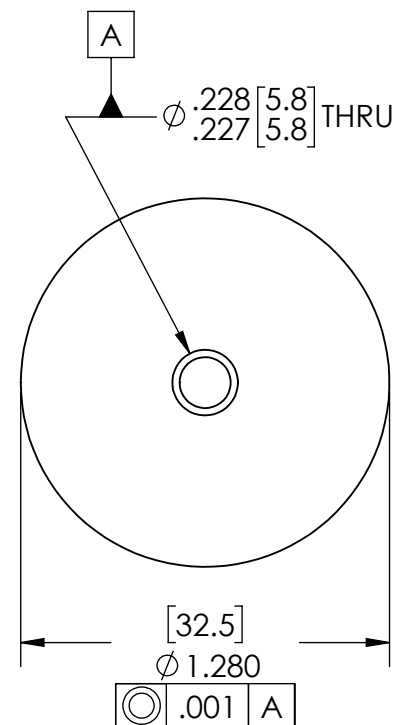
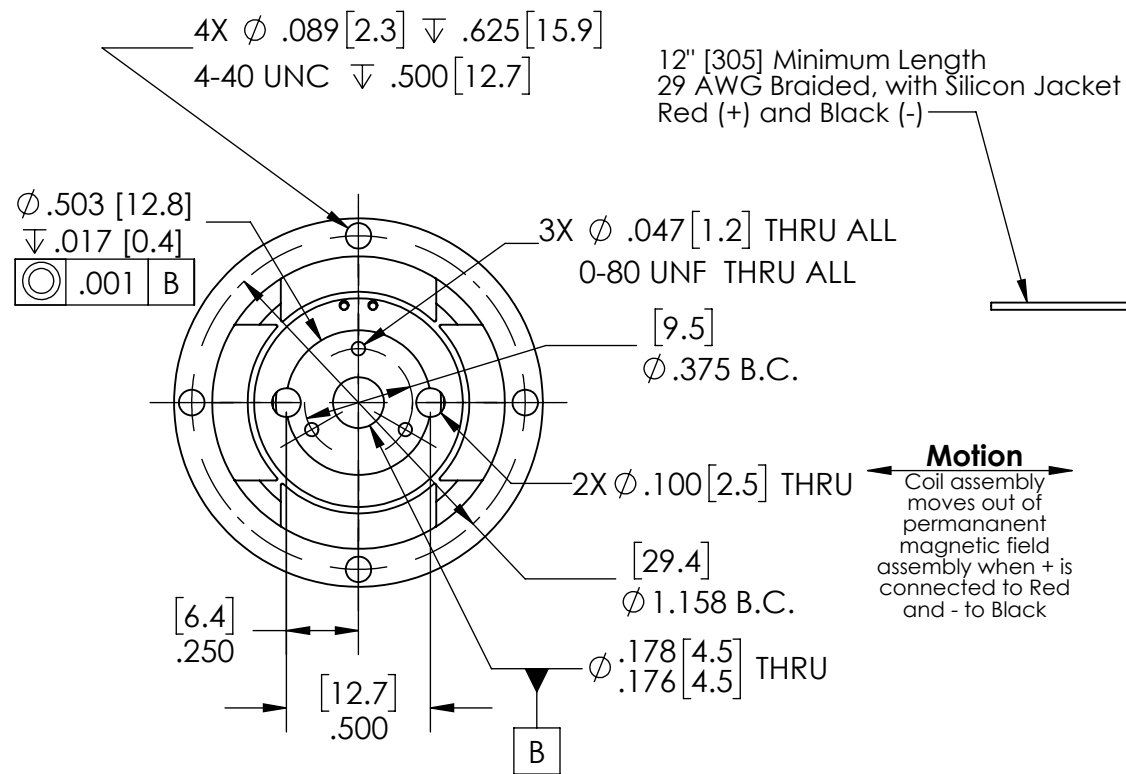
4

5

ACTUATOR SHOWN AT MIDSTROKE

REVISION TABLE

REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	JRM	MPW	1-31-14
A	---	Corrected specifications after heat run	JRM	MPW	5-29-20



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UNLESS SPECIFIED OTHERWISE:
 All dimensions are in inches
 Standard Tolerances are as follows
 .XXX $\pm$.005 ANGLES $\pm$ 1°
 .XX $\pm$.010 FILLETS .010
 .X $\pm$.020 CORNERS .010
 Remove All Burrs and Sharp Edges

**FOR
 REFERENCE
 ONLY**

MATERIAL

FINISH

TITLE

**Voice Coil Actuator
 Model #: NCC02-13-010-1MR**

DWG # **30-1171**

REV **A**

DATE 1-31-14 SHEET 1 of 2

1

2

3

4

5

A

A

B

B

C

C

D

D

NON-COMM ACTUATOR SPECIFICATIONS

Motor P/N	NCC02-13-010-1MR	
Device Type	Moving Coil	
Stroke	0.22 in	5.6 mm
Radial Clearance	0.010 in	0.25 mm
Bearing Type	None Provided	
Moving Mass	0.13 oz	3.8 grams
Total Mass	3.1 oz	87 grams
Resistance @ 20C	6.5 ohms	
Inductance @ 20C	1.25 mH	
Electrical Time Constant	0.19 msec	
Motor Constant	0.39 lbs/sqrt(watt)	1.75 N/sqrt(watt)
Force Constant	1.2 lbs/amp	5.3 N/amp
Back EMF	0.13 V/ips	5.3 V/m/sec
Force @ 100% Duty	0.65 lbs	2.9 N
Power @ 100% Duty	2.0 watts	
Current @ 100% Duty	0.5 amps	
Force @ 10% Duty	2.0 lbs	8.7 N
Power @ 10% Duty	16 watts	
Current @ 10% Duty	1.6 amps	



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 .XXX ±.005 ANGLES ±.1°
 .XX ±.010 FILLETS .010
 .X ±.020 CORNERS .010
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MATERIAL

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REV **A**

DATE **1-31-14** SHEET **2 of 2**