

4

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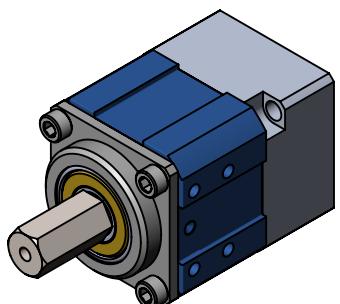
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REVISION HISTORY

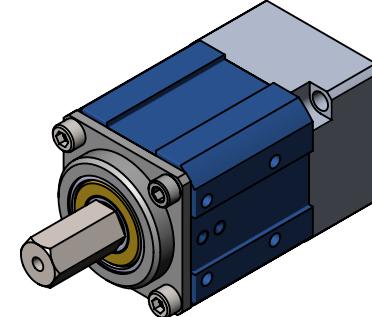
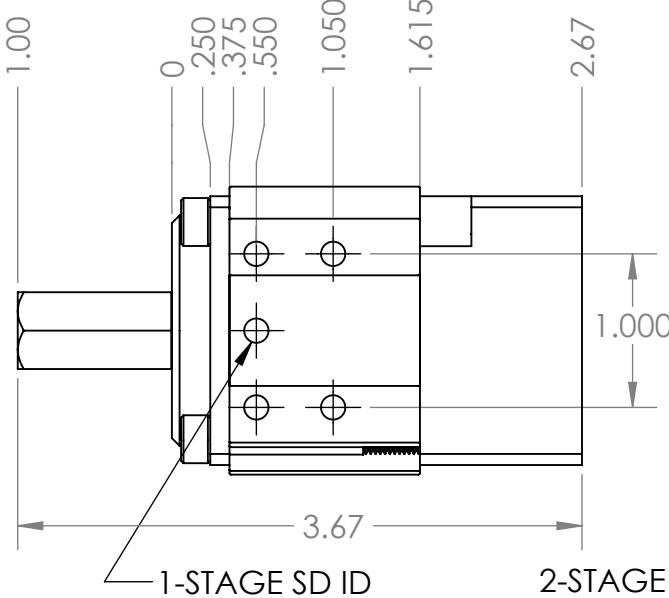
REV.	DESCRIPTION	DATE	DRAWN BY
1	ORIGINAL PRINT	10/19/2017	K. NEPOMUCENO
2	UPDATED PART NUMBERS	2/2/2022	N.MASSOURA

B

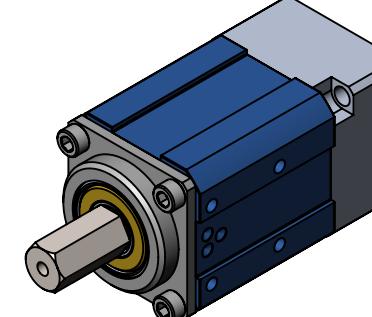
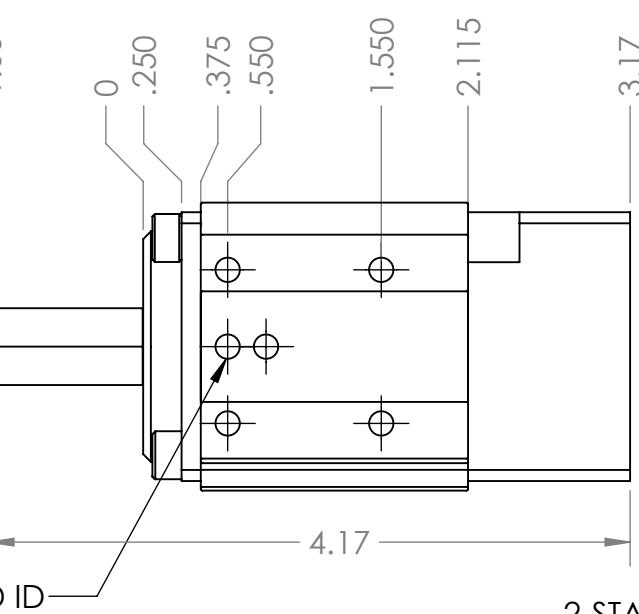
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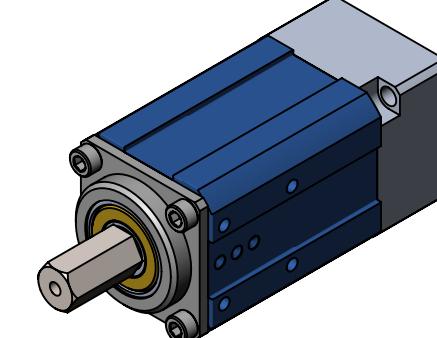
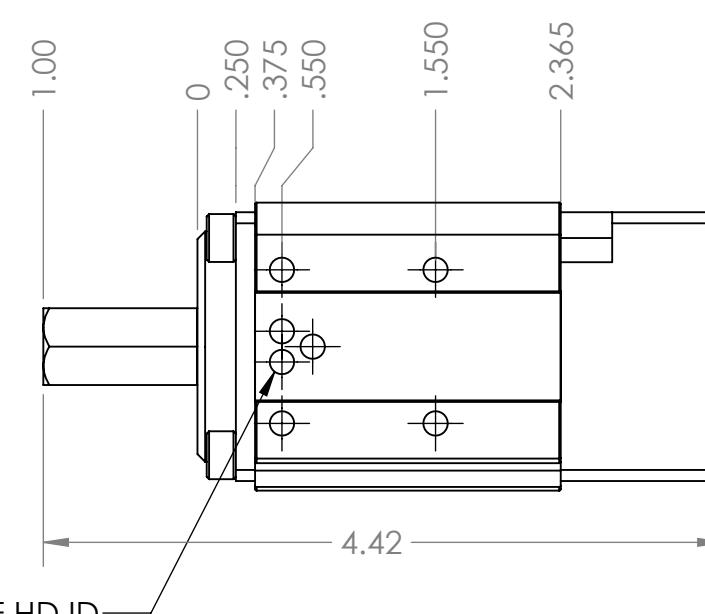
SD RATIOS
4:1 - (am-4007_004)



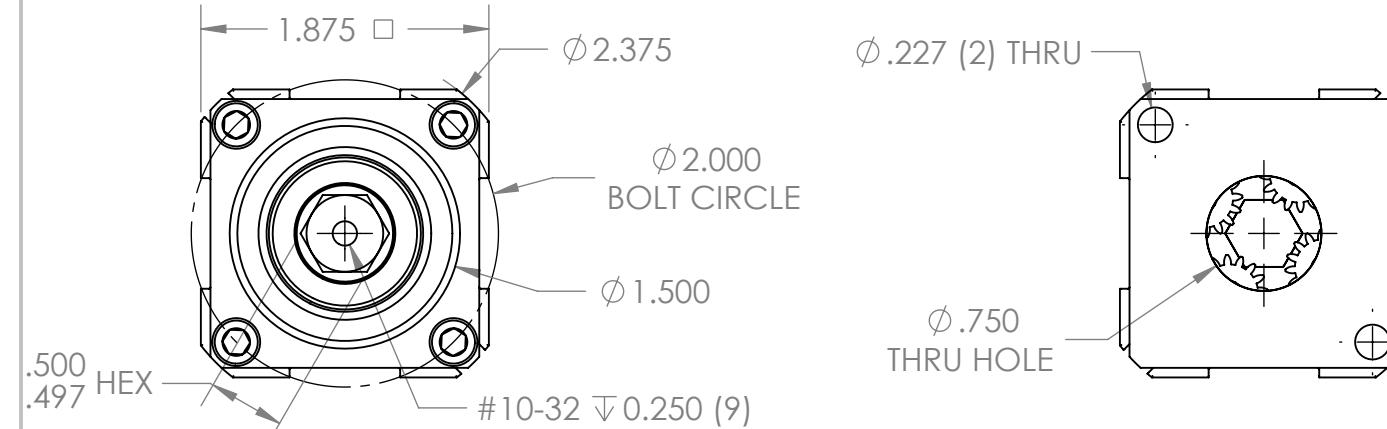
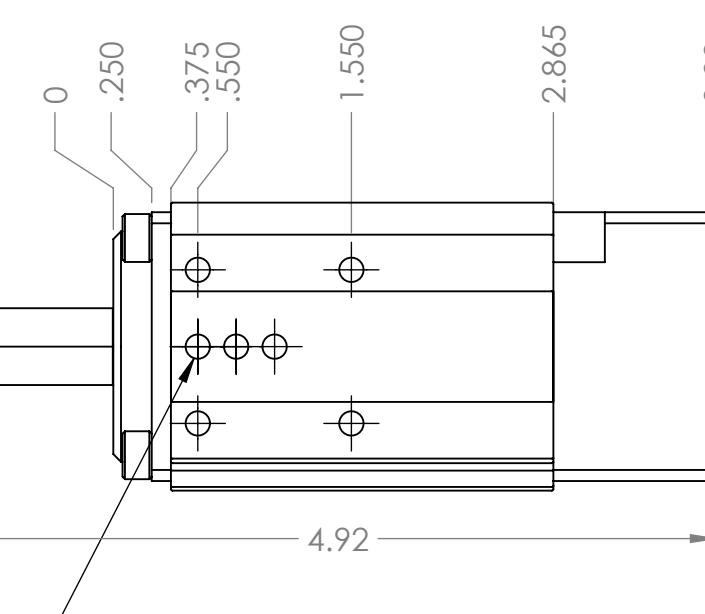
SD RATIOS
12:1 - (am-4007_012)
16:1 - (am-4007_016)
20:1 - (am-4007_020)



HD RATIOS
12:1 - (am-4008_012)
16:1 - (am-4008_016)
20:1 - (am-4008_020)



HD RATIOS
36:1 - (am-4008_036)
48:1 - (am-4008_048)
64:1 - (am-4008_064)
80:1 - (am-4008_080)
100:1 - (am-4008_100)



NOTE: WHEN SHORT BACK
BLOCK IS USED GEARBOX IS
0.87 INCHES SHORTER

UNLESS OTHERWISE SPECIFIED:		COMMENTS:	
DIMENSIONS ARE IN INCHES		DUAL DIMENSIONS ARE IN MILLIMETERS.	
TOLERANCES: FRACTIONAL ANGULAR: MACH ANGULAR: BEND ONE PLACE DECIMAL TWO PLACE DECIMAL THREE PLACE DECIMAL FOUR PLACE DECIMAL	±1/16 ±1° ±5° ±0.1 ±0.01 ±0.005 ±0.0005		BREAK ALL SHARP EDGES.
MATERIAL		NAME	DATE
FINISH		NL	2/2/22
DO NOT SCALE DRAWING		ENG APPR.	
MFG APPR.		Q.A.	
Q.A.			

*** SEE CAD FOR ADDITIONAL TOOLPATH INFO***

AndyMark

TITLE: CIM SPORT SERIES

SIZE **B** DWG. NO. REV **2**

SCALE: 1:1.25 SHEET 1 OF 7

4

3

2

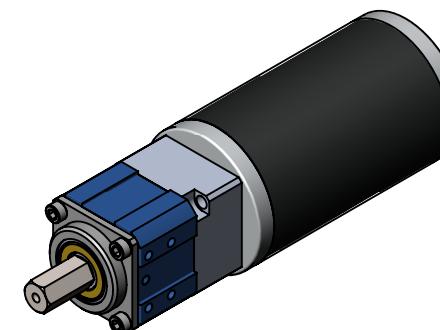
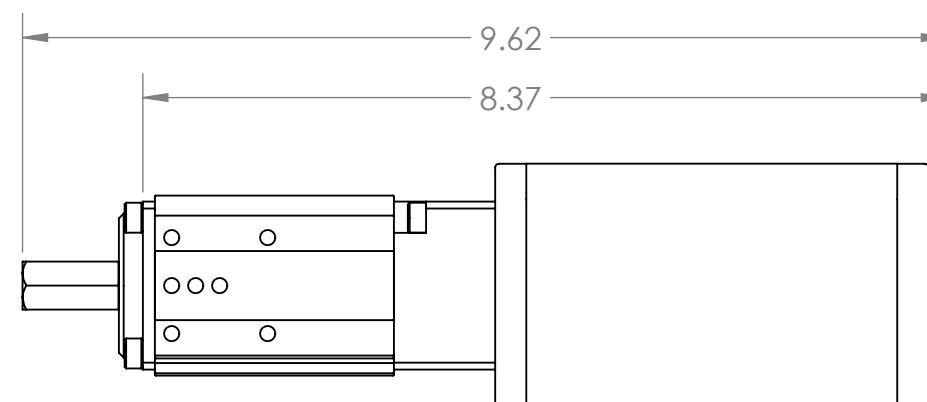
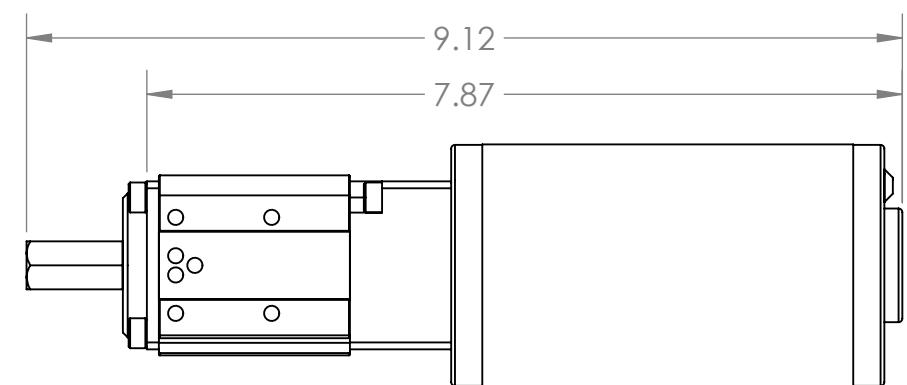
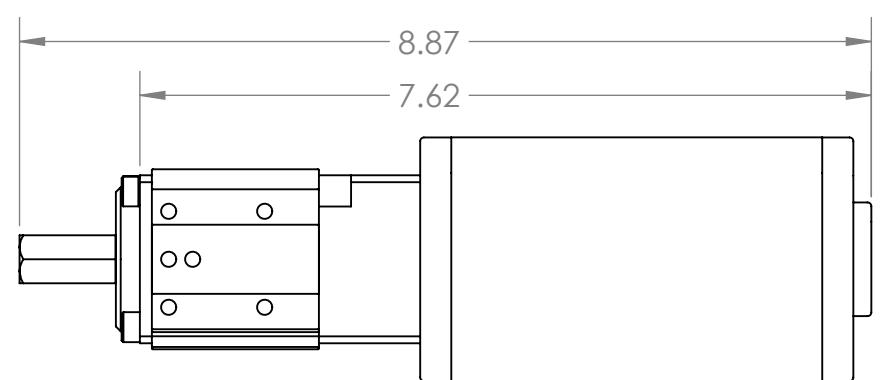
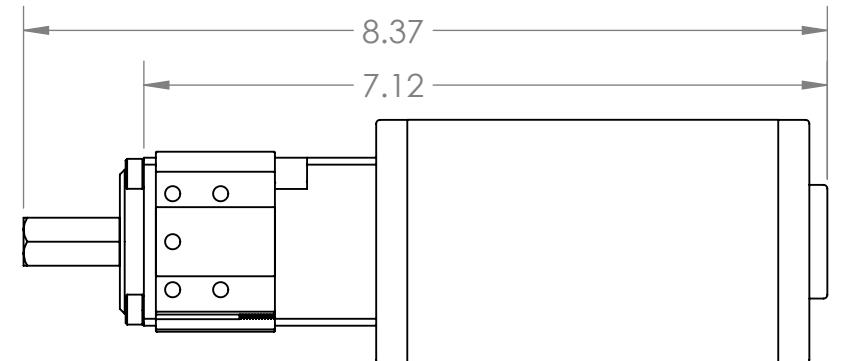
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4

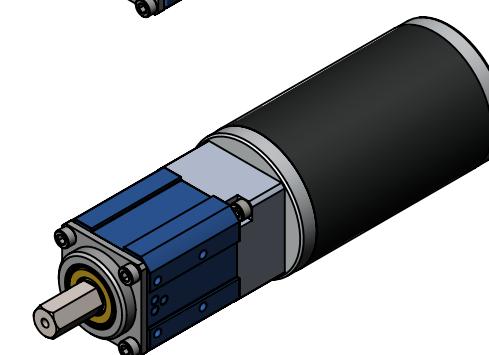
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2

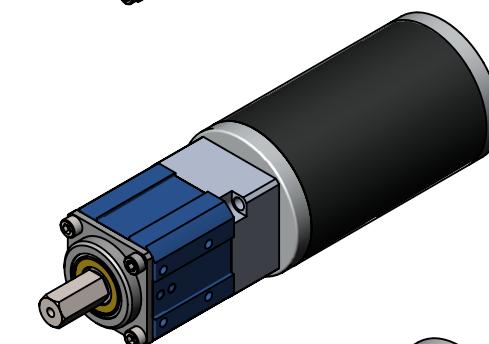
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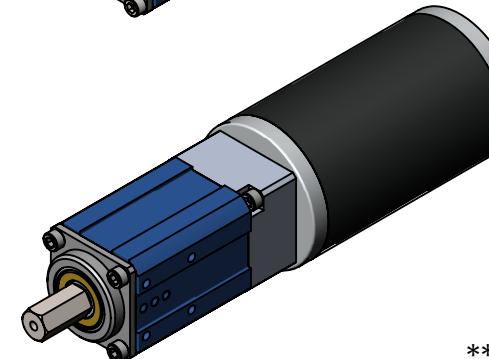
SD RATIOS
4:1 - (am-4007_004)



SD RATIOS
12:1 - (am-4007_012)
16:1 - (am-4007_016)
20:1 - (am-4007_020)



HD RATIOS
12:1 - (am-4008_012)
16:1 - (am-4008_016)
20:1 - (am-4008_020)



HD RATIOS
36:1 - (am-4008_036)
48:1 - (am-4008_048)
64:1 - (am-4008_064)
80:1 - (am-4008_080)
100:1 - (am-4008_100)

MOTOR NOT INCLUDED

*** SEE CAD FOR ADDITIONAL TOOLPATH INFO***

UNLESS OTHERWISE SPECIFIED:		COMMENTS:	
DIMENSIONS ARE IN INCHES		DUAL DIMENSIONS ARE IN MILLIMETERS.	
TOLERANCES: FRACTIONAL ANGULAR: MACH ANGULAR: BEND ONE PLACE DECIMAL TWO PLACE DECIMAL THREE PLACE DECIMAL FOUR PLACE DECIMAL	±1/16 ±1° ±5° ±0.1 ±0.01 ±0.005 ±0.0005	NAME	DATE
MATERIAL	NL	2/2/22	SIZE
FINISH	ENG APPR.		DWG. NO.
DO NOT SCALE DRAWING	MFG APPR.		REV
	Q.A.		2

AndyMark

TITLE:
CIM SPORT SERIES
WITH MOTOR

SCALE: 1:2 SHEET 2 OF 7

4

3

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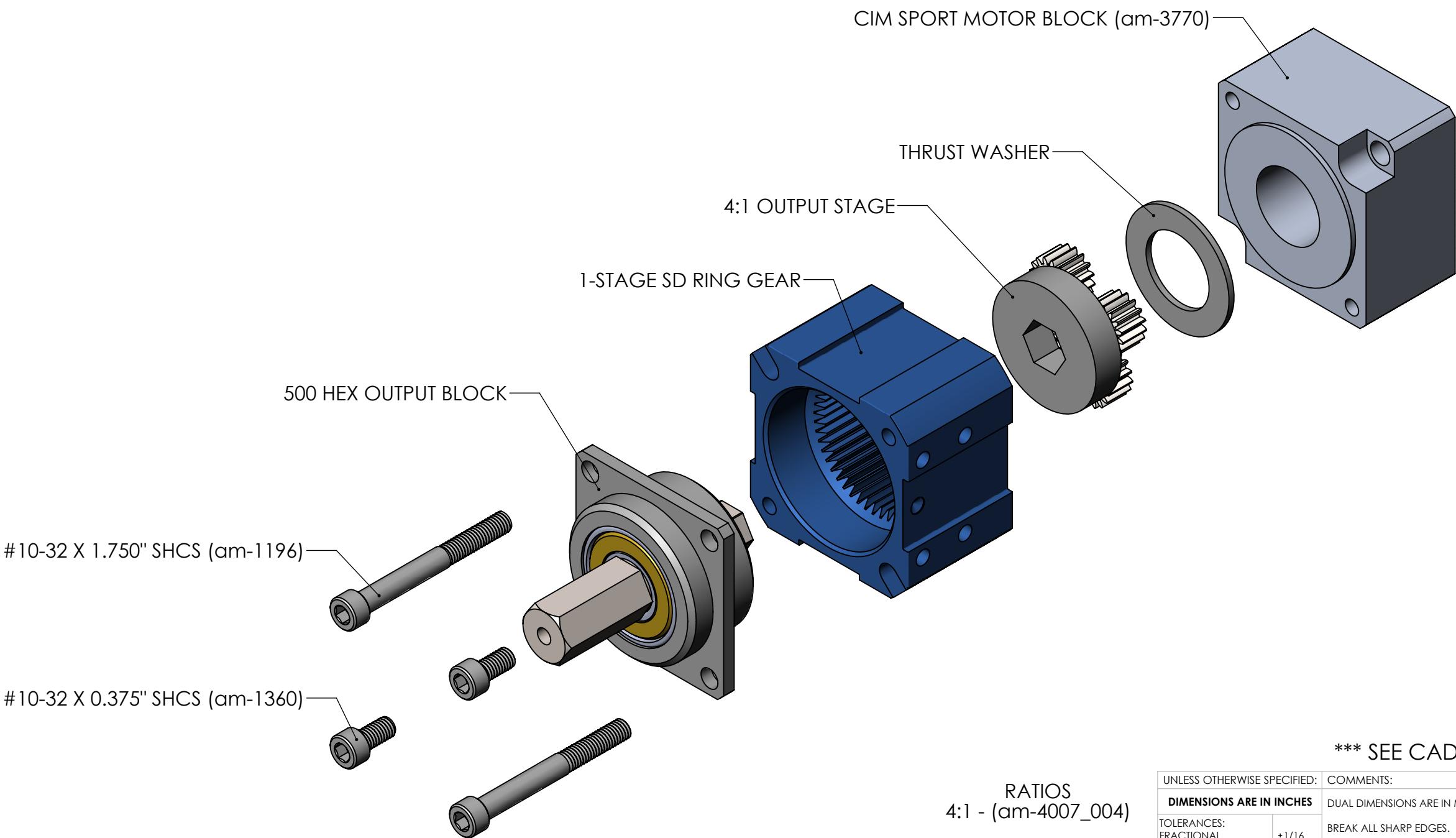
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2

1

REVISION HISTORY

REV.	DESCRIPTION	DATE	DRAWN BY
1	ORIGINAL PRINT	10/19/2017	K. NEPOMUCENO
2	UPDATED TO AMDS-1	2/2/2022	N. MASSOUDA



MOTOR NOT INCLUDED
*** SEE CAD FOR ADDITIONAL TOOLPATH INFO***

UNLESS OTHERWISE SPECIFIED:		COMMENTS:	
DIMENSIONS ARE IN INCHES		DUAL DIMENSIONS ARE IN MILLIMETERS.	
TOLERANCES:			BREAK ALL SHARP EDGES.
FRACTIONAL	±1/16		
ANGULAR: MACH	±1°		
ANGULAR: BEND	±5°		
ONE PLACE DECIMAL	±0.1		
TWO PLACE DECIMAL	±0.01		
THREE PLACE DECIMAL	±0.005		
FOUR PLACE DECIMAL	±0.0005		
MATERIAL		NAME	DATE
FINISH		NL	2/2/22
DO NOT SCALE DRAWING		MFG APPR.	
		Q.A.	

AndyMark

TITLE: ONE STAGE SD CIM SPORT EXPLODED VIEW

SIZE DWG. NO. REV

B 2

SCALE: 1:1 SHEET 3 OF 7

4

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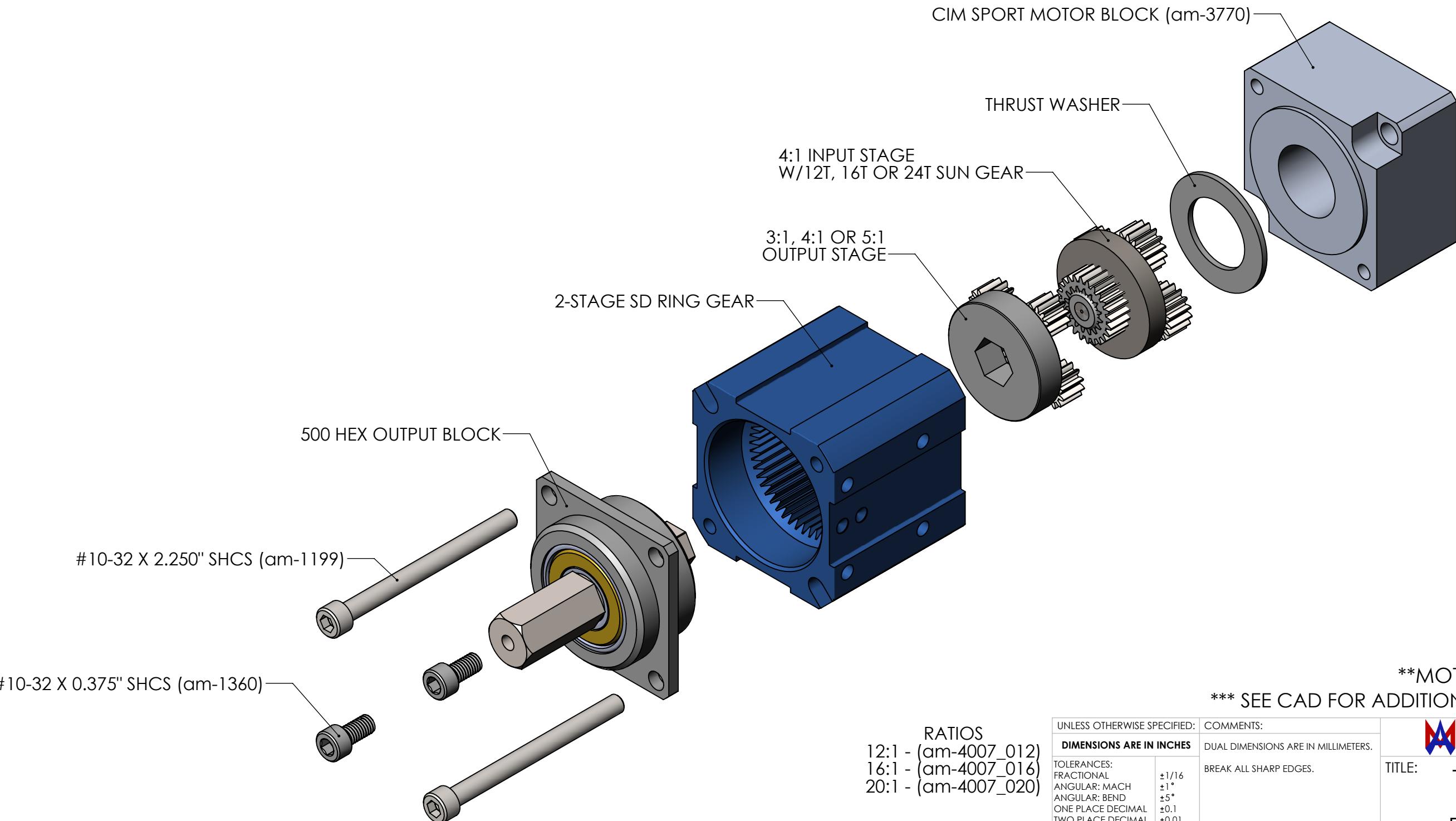
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REVISION HISTORY

REV.	DESCRIPTION	DATE	DRAWN BY
1	ORIGINAL PRINT	10/19/2017	K. NEPOMUCENO
2	UPDATED TO AMDS-1	2/2/2022	N. MASSOUDA

B

B



RATIOS
12:1 - (am-4007_012)
16:1 - (am-4007_016)
20:1 - (am-4007_020)

MOTOR NOT INCLUDED
*** SEE CAD FOR ADDITIONAL TOOLPATH INFO***

UNLESS OTHERWISE SPECIFIED:		COMMENTS:	
DIMENSIONS ARE IN INCHES			
TOLERANCES: FRACTIONAL ANGULAR: MACH ANGULAR: BEND ONE PLACE DECIMAL TWO PLACE DECIMAL THREE PLACE DECIMAL FOUR PLACE DECIMAL	$\pm 1/16$ $\pm 1^\circ$ $\pm 5^\circ$ ± 0.1 ± 0.01 ± 0.005 ± 0.0005	DUAL DIMENSIONS ARE IN MILLIMETERS. BREAK ALL SHARP EDGES.	
MATERIAL		NAME	DATE
FINISH		NL	2/2/22
DO NOT SCALE DRAWING		MFG APPR.	
		Q.A.	

AndyMark

TITLE: TWO STAGE SD CIM SPORT EXPLODED VIEW

SIZE DWG. NO. REV

B 2

SCALE: 1:1 SHEET 4 OF 7

4

3

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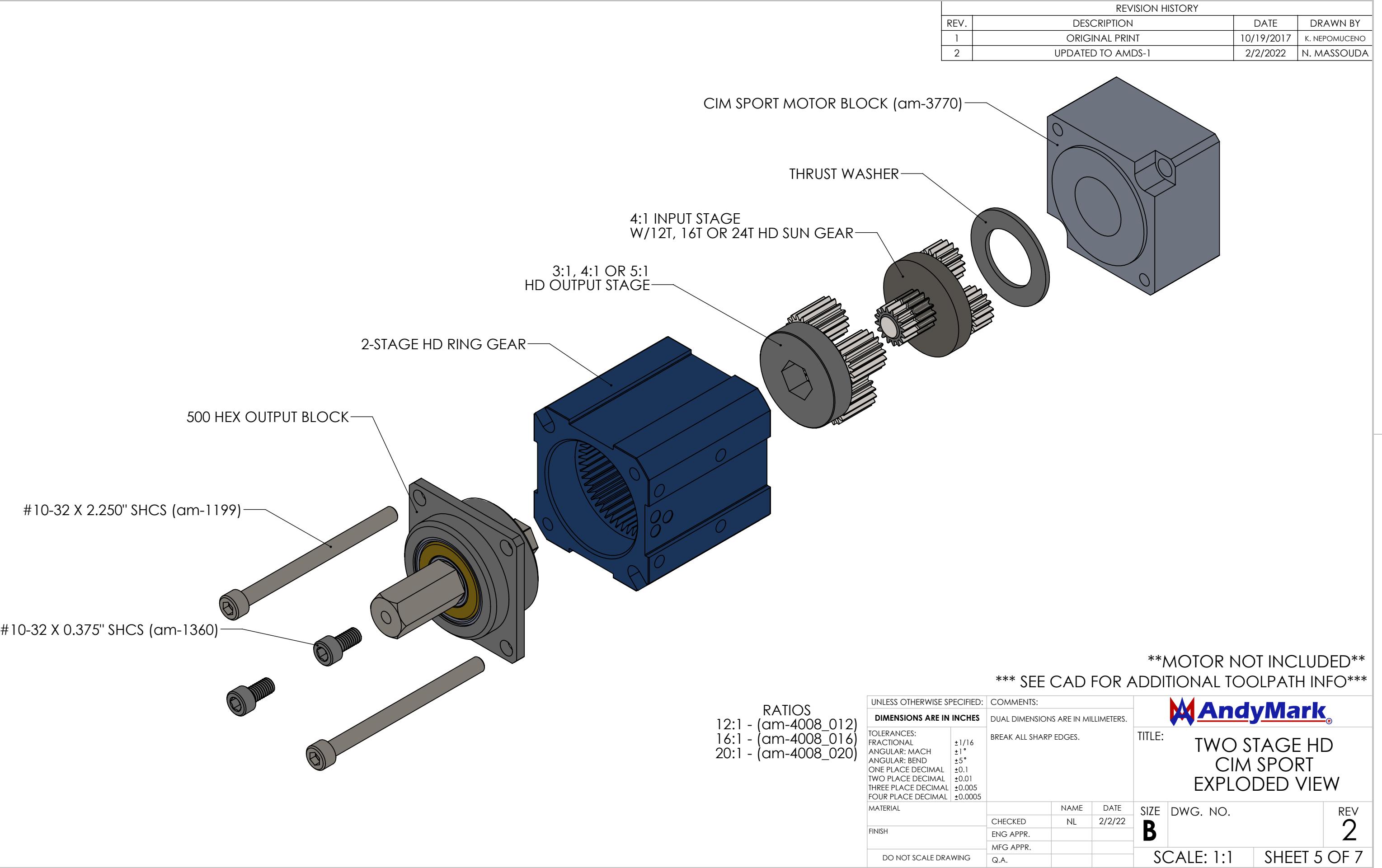
3

2

1

REVISION HISTORY

REV.	DESCRIPTION	DATE	DRAWN BY
1	ORIGINAL PRINT	10/19/2017	K. NEPOMUCENO
2	UPDATED TO AMDS-1	2/2/2022	N. MASSOUDA



4

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4

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1

REVISION HISTORY

REV.	DESCRIPTION	DATE	DRAWN BY
1	ORIGINAL PRINT	10/19/2017	K. NEPOMUCENO
2	UPDATED TO AMDS-1	2/2/2022	N. MASSOURA

CIM SPORT
MOTOR BLOCK (am-3770)

THRUST WASHER

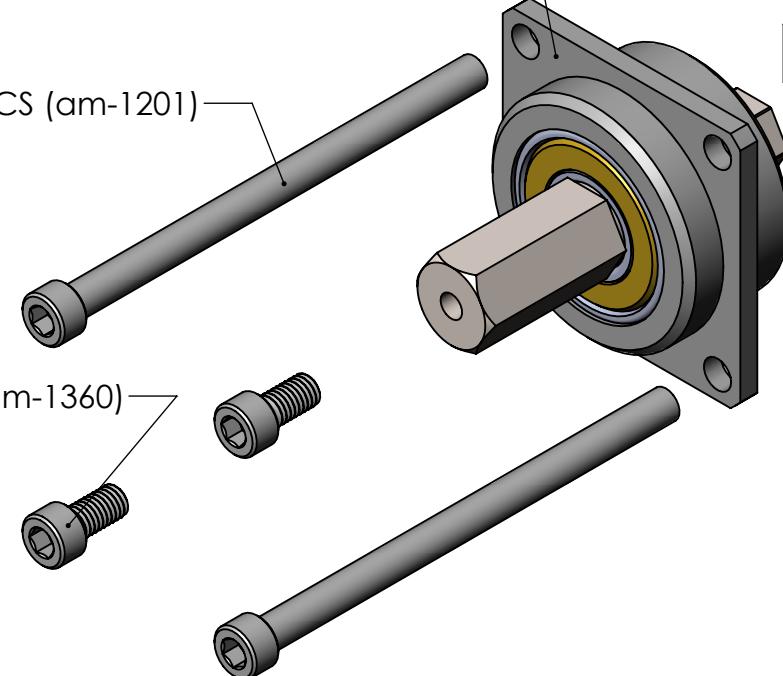
4:1 INPUT STAGE
w/12T, 16T or 24T SUN GEAR3:1, 4:1 OR 5:1 STAGE
W/12T, 16T or 24T HD SUN GEAR3:1 4:1 or 5:1
HD OUTPUT STAGE

3-STAGE HD RING GEAR

500 HEX OUTPUT BLOCK

#10-32 x 3.000" SHCS (am-1201)

#10-32 x 0.375" SHCS (am-1360)



RATIOS
 36:1 - (am-4008_036)
 48:1 - (am-4008_048)
 64:1 - (am-4008_064)
 80:1 - (am-4008_080)
 100:1 - (am-4008_100)

UNLESS OTHERWISE SPECIFIED:		COMMENTS:	
DIMENSIONS ARE IN INCHES		DUAL DIMENSIONS ARE IN MILLIMETERS.	
TOLERANCES:			BREAK ALL SHARP EDGES.
FRACTIONAL	$\pm 1/16$		
ANGULAR: MACH	$\pm 1^\circ$		
ANGULAR: BEND	$\pm 5^\circ$		
ONE PLACE DECIMAL	± 0.1		
TWO PLACE DECIMAL	± 0.01		
THREE PLACE DECIMAL	± 0.005		
FOUR PLACE DECIMAL	± 0.0005		
MATERIAL		NAME	DATE
FINISH		NL	2/2/22
DO NOT SCALE DRAWING		MFG APPR.	
		Q.A.	

*** SEE CAD FOR ADDITIONAL TOOLPATH INFO***

AndyMark

TITLE: THREE STAGE HD CIM SPORT EXPLODED VIEW

SIZE DWG. NO. REV

B 2

SCALE: 1:1 SHEET 6 OF 7

4

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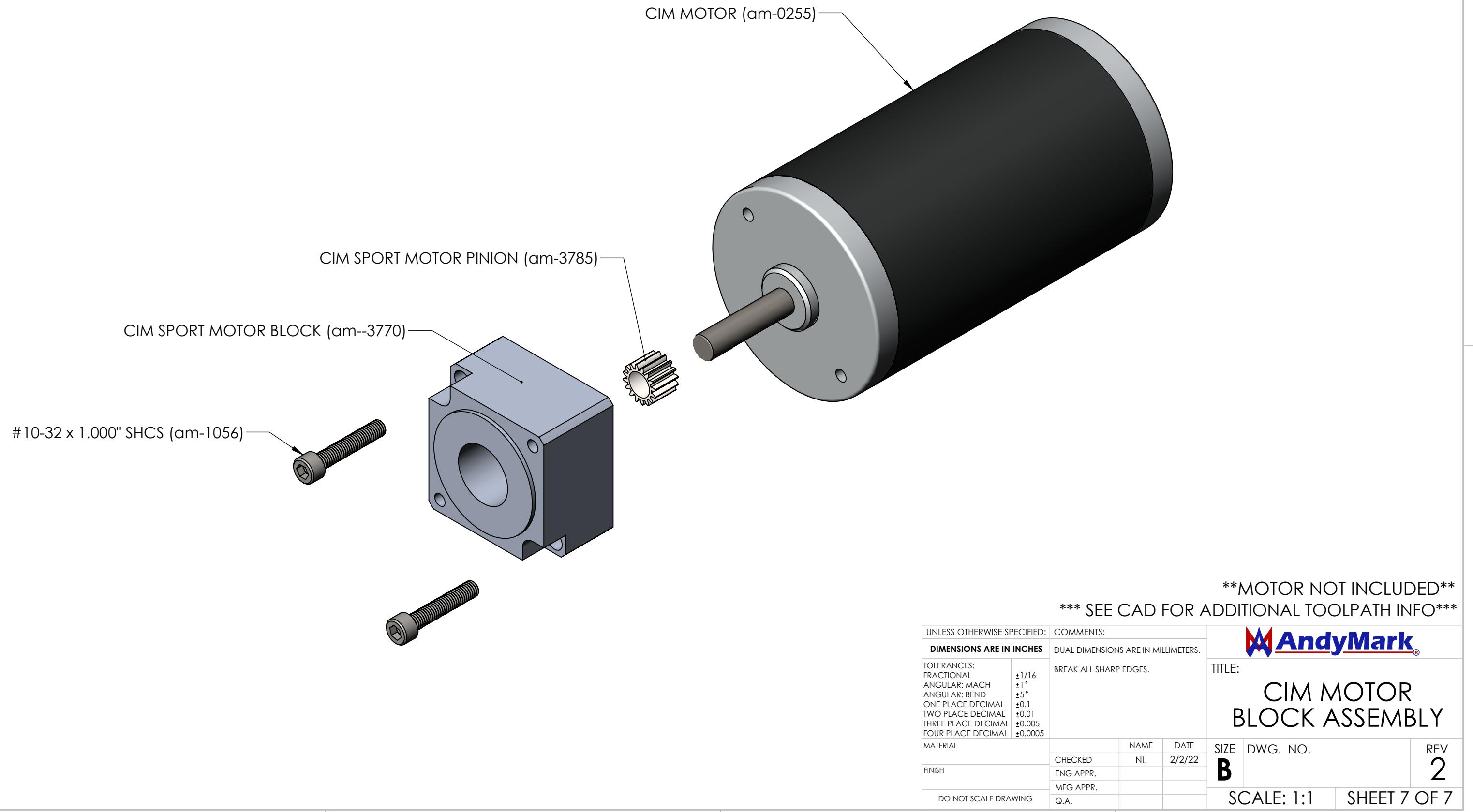
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2

1

REVISION HISTORY

REV.	DESCRIPTION	DATE	DRAWN BY
1	ORIGINAL PRINT	10/19/2017	K. NEPOMUCENO
2	UPDATED TO AMDS-1	2/2/2022	N. MASSOUDA



4

3

2

1