

GSFR Planetary Gearboxes: Right Angle, Straight Cut, Square Flange

Identifier Number	Definition	Possible Codes	Description/Size	Notes
1	Product Family ID	G	"Gearbox"	This character always stays the same
2	Gearbox Style/Family	SF	Straight Cut Planetary, Square output flange	
3	Angle of Gearbox	R	Right Angle	
4	Output Body (mm)	060	60 mm	Only available for NEMA 23
		080	80 mm	Only available for NEMA 34
5	Gear Ratio	003, 004 ... 008, 010	X:1 ratio, 1-Stage	Exception is a 9:1 ratio, which is a 2-Stage gearbox
		009, 012 ... 050, 064	X:1 ratio, 2-Stage	Any ratio over 10:1 implies a 2-Stage gearbox
6	Input Mounting	N023	NEMA 23	
		N034	NEMA 34	
7	Input Bore Diameter	A, B, ... Y, Z	E: 14 mm L: 3/8 inch H: 1/2 inch Q: 1/4 inch	See subsequent drawing sheets for available Input Bore Diameters for each Input Mounting size (NEMA 23, NEMA 34, etc.)
8	Wildcard	XX	Wildcard	For future use options

The below Example Teknic Part Number maps each part number section to an Identifier Number in the table to the left. These Identifier Numbers will be referenced later in this drawing where they drive gearbox dimensions.

Example Teknic Part Number

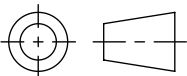
GSFR-060-005-N023L-XX

1 2 3 4 5 6 7 8

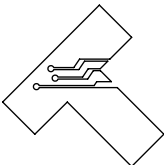
All dimensions are in mm [inch] unless otherwise noted.
Sheet Scale 1:1

Teknic, Incorporated
Victor, NY 14564 USA

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Third-Angle Projection



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DWG. NO./REV

D1265/A

TITLE: GSFR Planetary Gearbox, Right Angle, Straight Cut, Square Flange

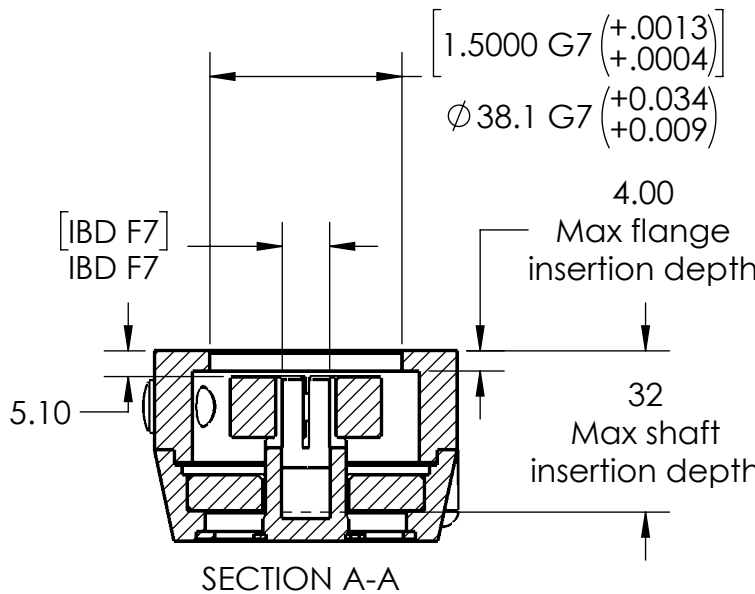
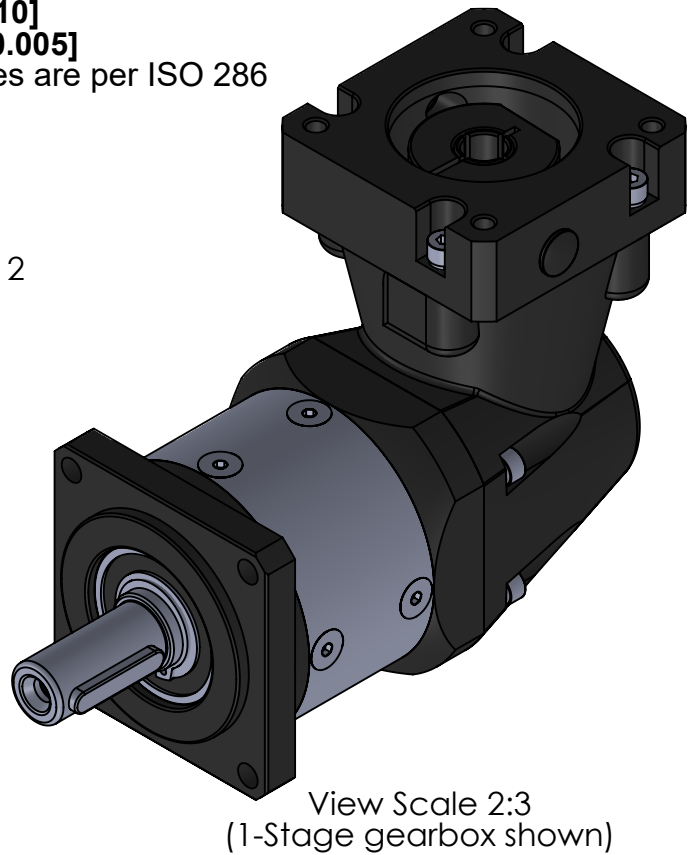
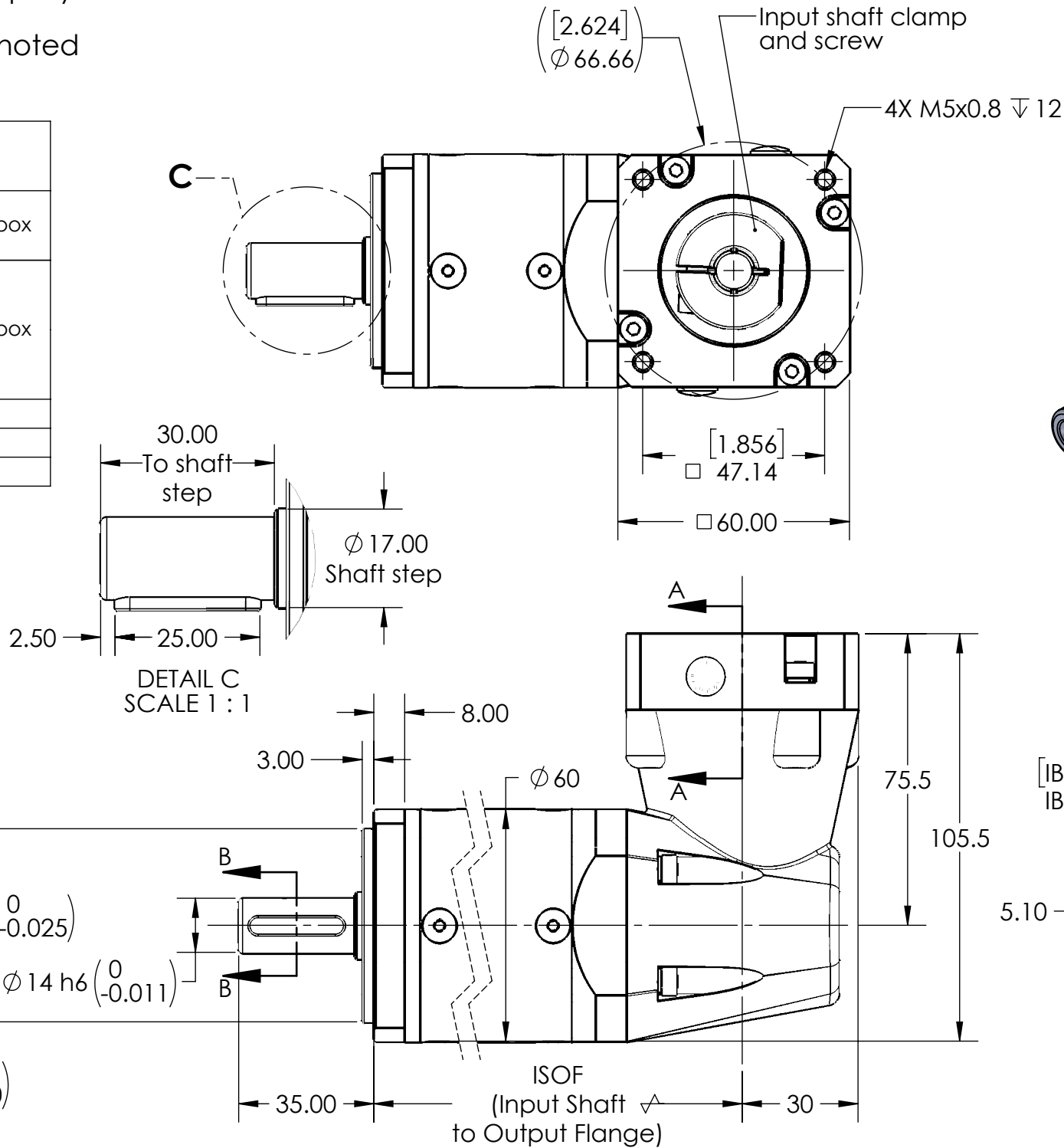
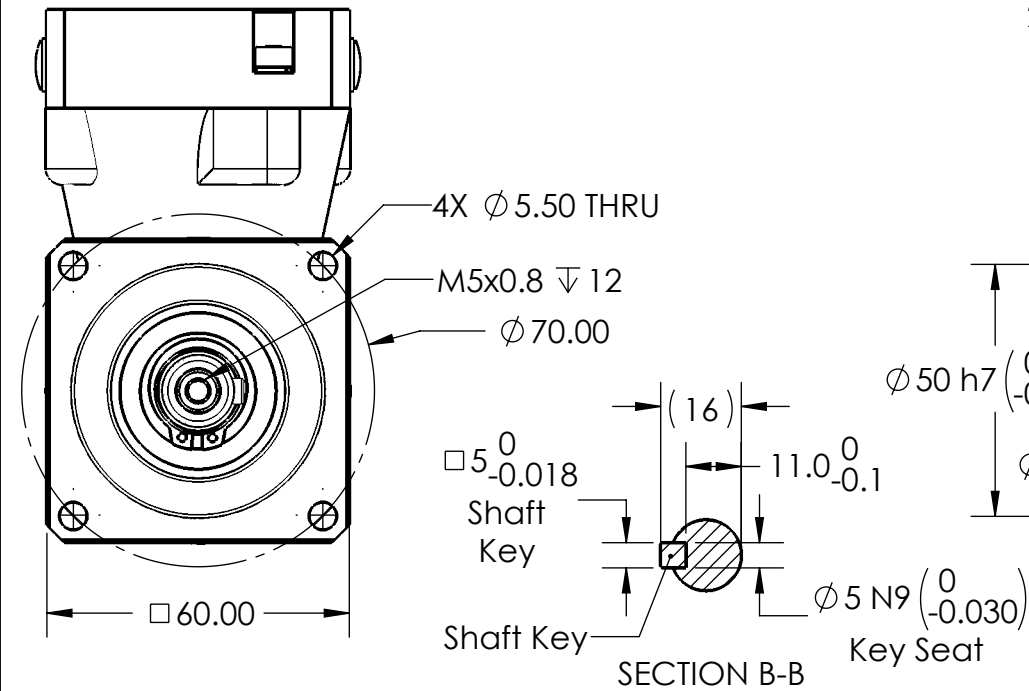
1 of 3 Sheets

GSFR NEMA 23 Planetary Gearbox: Right Angle, Straight Cut, Square Flange

- Hardware included: Output shaft key, input clamp-style shaft coupling for motor shaft size shown in table
- All dimensions are in mm [inch] unless otherwise noted
- Sheet Scale 2:3

Unless otherwise specified, untoleranced dimensions default to:
X: ± .75mm [0.030]
X.X: ± .5mm [0.020]
X.XX: ± .25mm [0.010]
X.XXX: ± .125mm [0.005]
Lettered Fit tolerances are per ISO 286

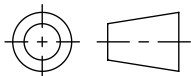
Identifier Number	Dimension Name	Possible Codes	Dimension Value mm [in]	Notes
5	ISOF (Input Shaft to Output Flange)	003, 004 ... 008, 010	91 [3.583]	1-Stage Gearbox
	[Set by gear ratio e.g. 3:1 gear ratio is 003 code]	009	109 [4.291]	2-Stage Gearbox
		012, 015 ... 050, 064		
7	IBD (Input Bore Diameter)	E	14.00 [0.551]	
		L	9.53 [0.375]	
		Q	6.35 [0.250]	



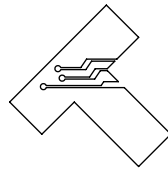
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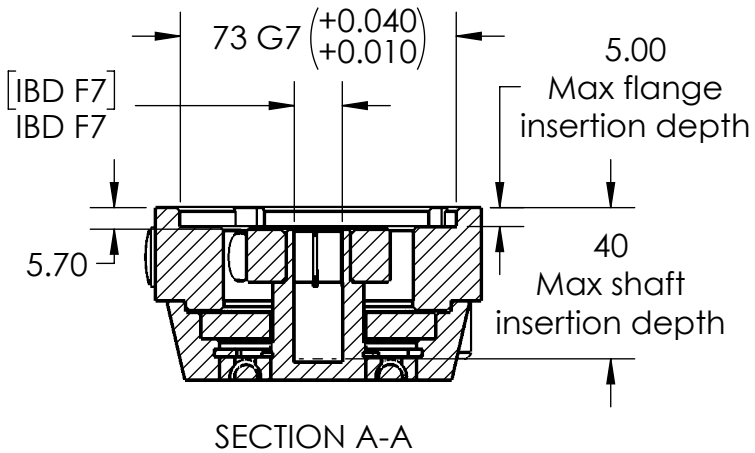
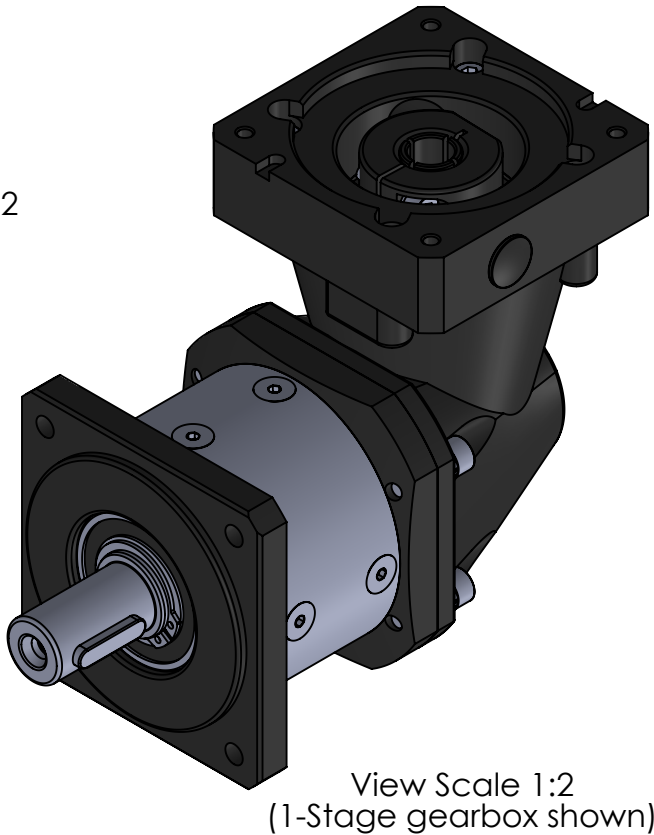
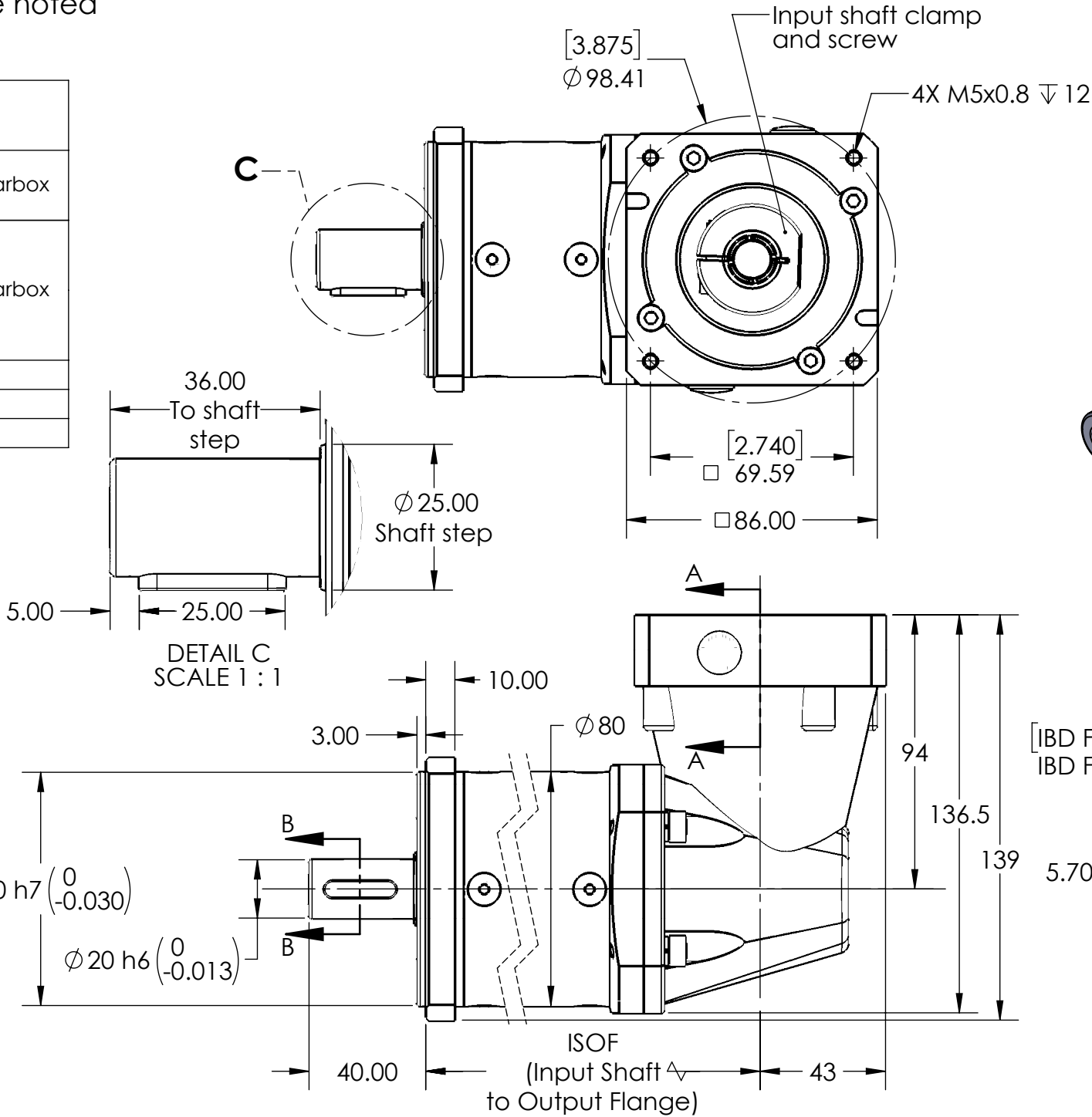
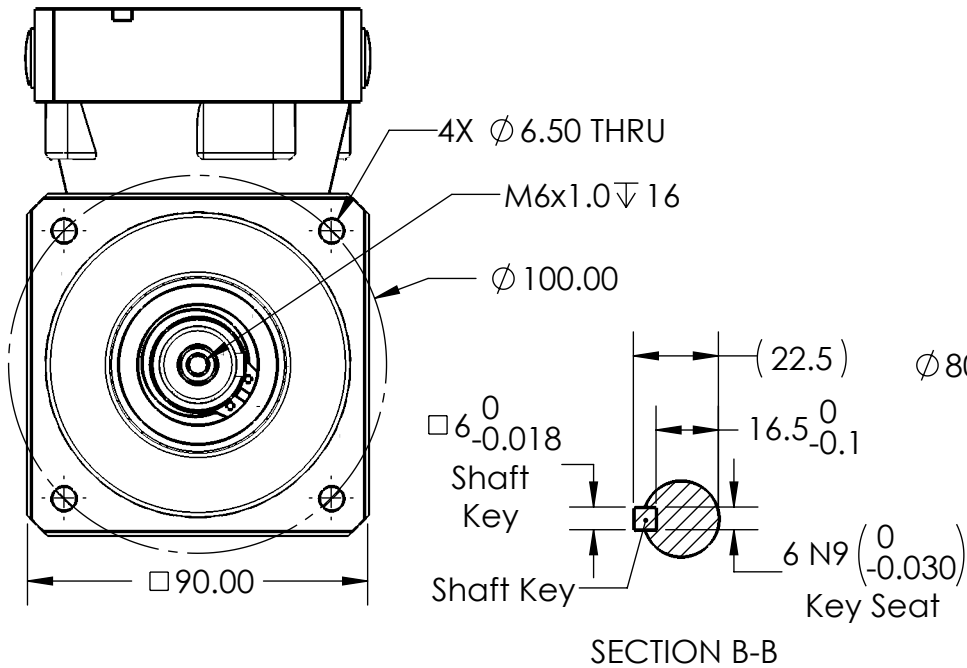
2 of 3 Sheets

GSFR NEMA 34 Planetary Gearbox: Right Angle, Straight Cut, Square Flange

- Hardware included: Output shaft key, input clamp-style shaft coupling for motor shaft size shown in table
- All dimensions are in mm [inch] unless otherwise noted
- Sheet Scale 1:2

Unless otherwise specified, untoleranced dimensions default to:
X: ± .75mm [0.030]
X.X: ± .5mm [0.020]
X.XX: ± .25mm [0.010]
X.XXX: ± .125mm [0.005]
Lettered Fit tolerances are per ISO 286

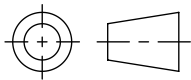
Identifier Number	Dimension Name	Possible Codes	Dimension Value mm [in]	Notes
5	ISOF (Input Shaft to Output Flange)	003, 004 ... 008, 010	109 [4.291]	1-Stage Gearbox
	[Set by gear ratio e.g. 3:1 gear ratio is 003 code]	009	131 [5.157]	2-Stage Gearbox
		012, 015 ... 050, 064		
7	IBD (Input Bore Diameter)	E	14.00 [0.551]	
		H	12.70 [0.500]	
		L	9.53 [0.375]	



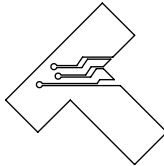
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TITLE:

3

of 3
Sheets