

GSFL Planetary Gearboxes: Inline, Straight Cut, Square Flange

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

GSFL-060-005-N023L-XX

1 2 3 4 5 6 7 8

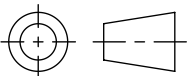
Identifier Number	Definition	Possible Codes	Description/Size	Notes
1	Product Family ID	G	"Gearbox"	This character always stays the same
2	Gearbox Style/Family	SF	Straight Cut Planetary, Square output flange	
3	Angle of Gearbox	L	In-Line	
4	Output Body (mm)	040	40 mm	Only available for NEMA 17
		060	60 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	9:1 ratio (code 009) is a 2-Stage gearbox
		009, 012 ... 050, 064	X:1 ratio, 2-Stage	Any ratio over 10:1 (code 010) implies a 2-Stage gearbox
6	Input Mounting	N017	NEMA 17	
		N023	NEMA 23	
		N034	NEMA 34	
7	Input Bore Diameter	A, B, ... Y, Z	C: 5 mm L: 3/8 inch E: 14 mm Q: 1/4 inch H: 1/2 inch R: 6 mm	NOTE: see subsequent drawing sheets for available Input Bore Diameters for each Input Mounting size (NEMA 17, NEMA 23, etc.)
8	Wildcard	XX	Wildcard	For future use options

All dimensions are in mm [inch] unless otherwise noted.

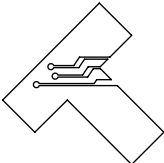
Teknic, Incorporated

Victor, NY 14564 USA

This document and related electronic files are the sole property of Teknic, Incorporated and contain proprietary information.



Third-Angle Projection



Additional documentation including product specifications, up-to-date compliance information, and manuals can be downloaded from Teknic's website.

Visit <https://www.teknic.com/> to access that documentation.

DWG. NO./REV

D1262/A

TITLE: GSFL Planetary Gearbox, Inline, Straight Cut, Square Flange

1

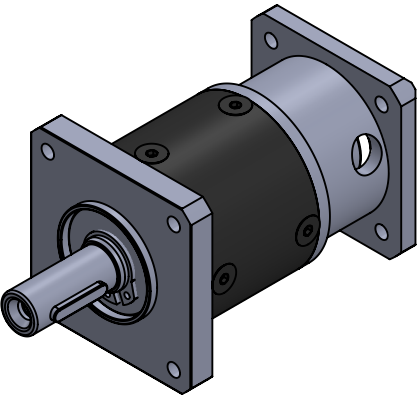
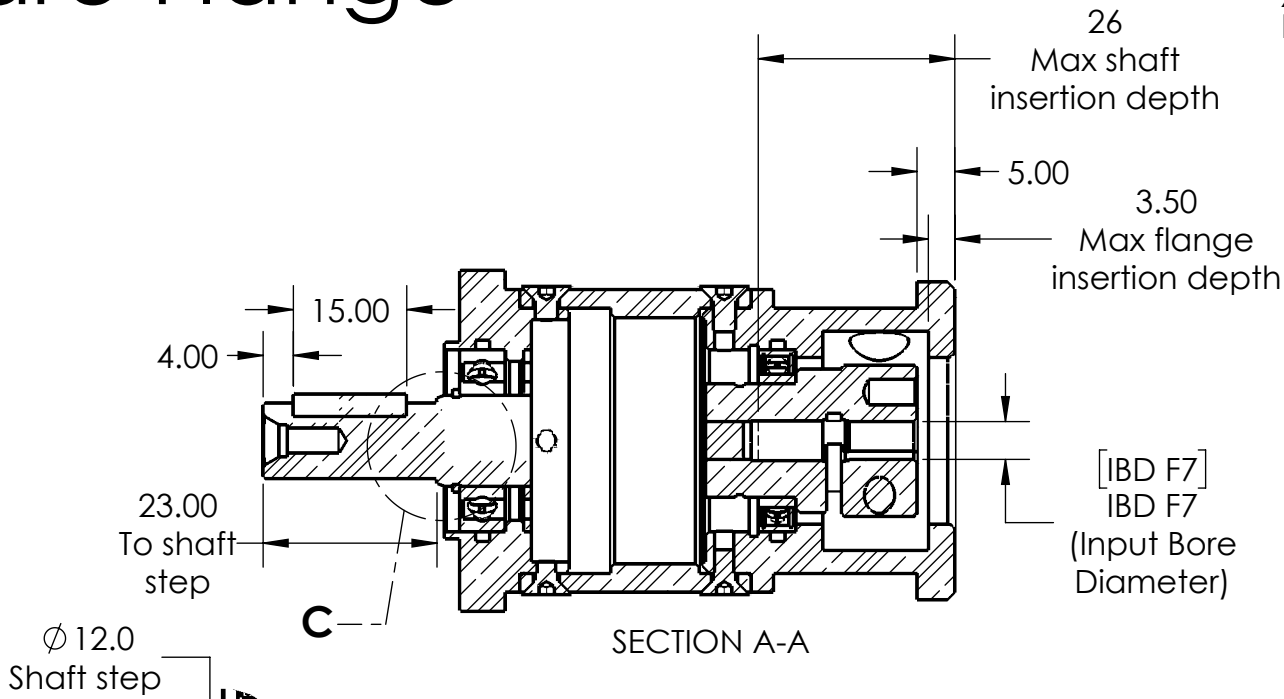
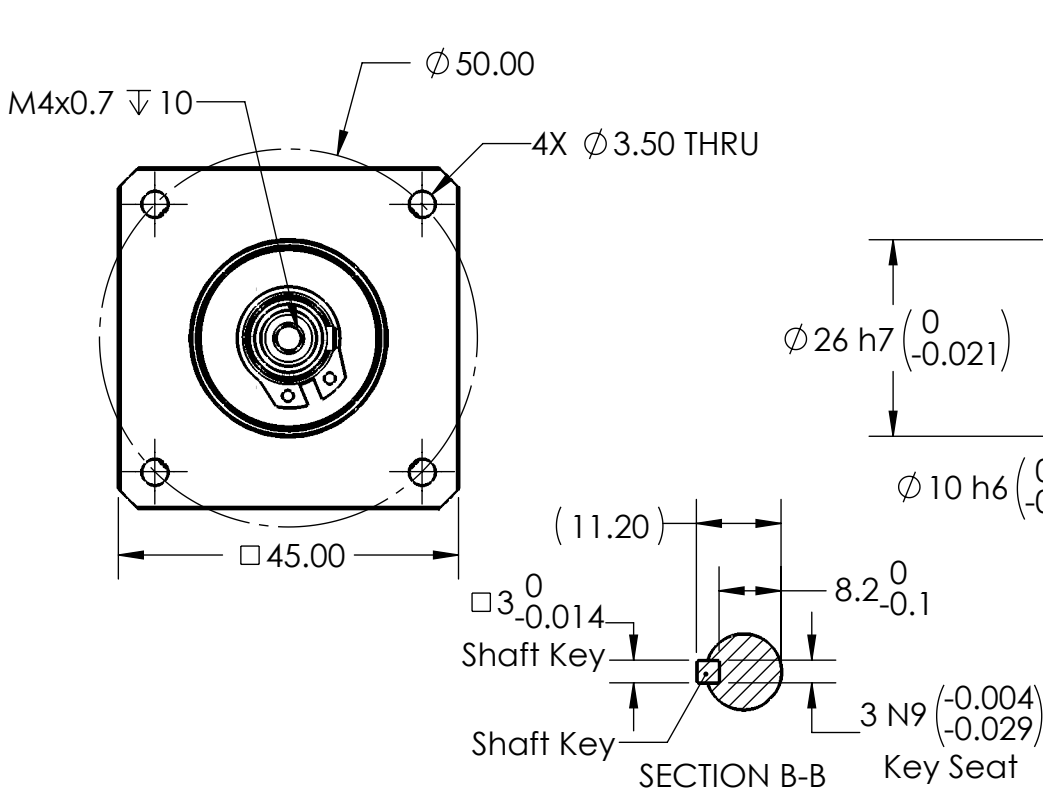
of 4
Sheets

GSFL NEMA 17 Planetary Gearbox: Inline, Straight Cut, Square Flange

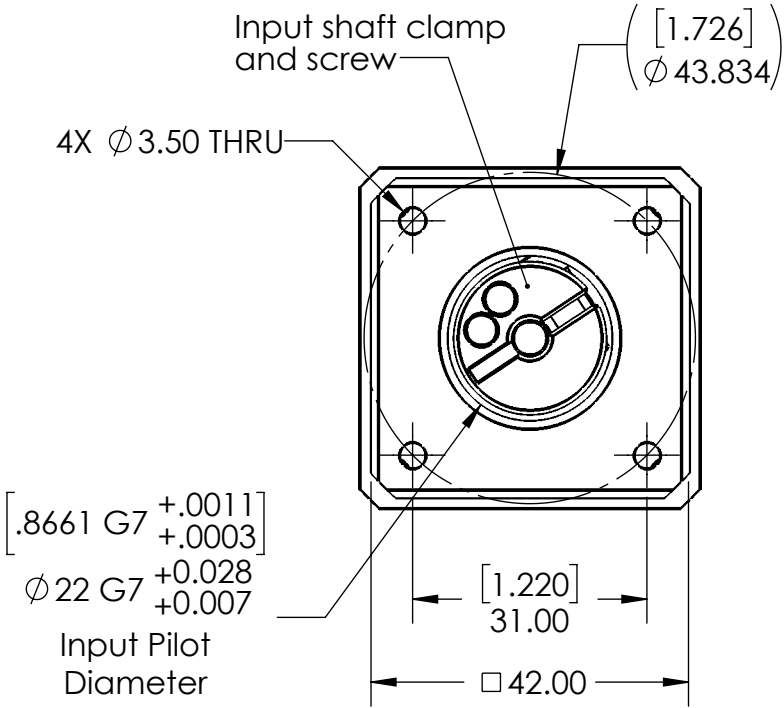
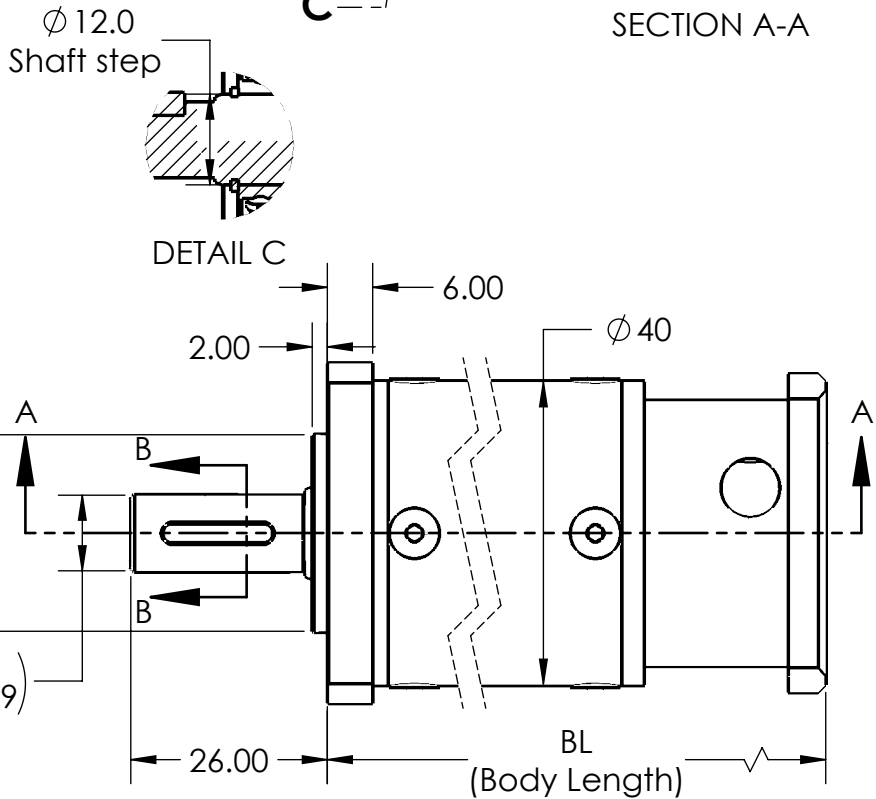
- Hardware included: Output shaft key, input clamp-style shaft coupling for motor shaft size shown in table
- All dimensions are in mm [inch] unless otherwise noted
- Sheet Scale 1:1

Identifier Number	Dimension Name	Possible Codes	Dimension Value mm [in]	Notes
5	BL (Body Length) [Set by gear ratio e.g. 3:1 gear ratio is 003 code]	003, 004 ... 008, 010	65.50 [2.579]	1-Stage Gearbox
		009	80.00 [3.150]	2-Stage Gearbox
		012, 015 ... 050, 064		
7	IBD (Input Bore Diameter)	C	5.00 [0.197]	
		Q	6.35 [0.250]	
		R	6.00 [0.236]	

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



View Scale 2:3
(1-Stage gearbox shown)



Teknic, Incorporated

Victor, NY 14564 USA

This document and related electronic files are the sole property of Teknic, Incorporated and contain proprietary information.

Third-Angle Projection

Additional documentation including product specifications, up-to-date compliance information, and manuals can be downloaded from Teknic's website.
Visit <https://www.teknic.com/> to access that documentation.

DWG. NO. REV

GSFL Planetary Gearbox, Inline, Straight Cut, Square Flange

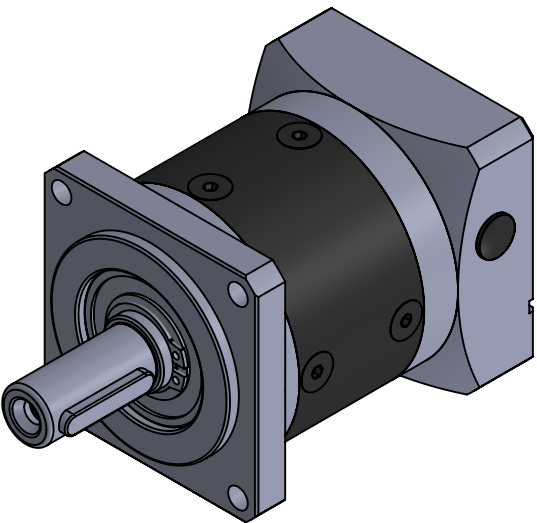
2 of 4 Sheets

GSFL NEMA 23 Planetary Gearbox: Inline, Straight Cut, Square Flange

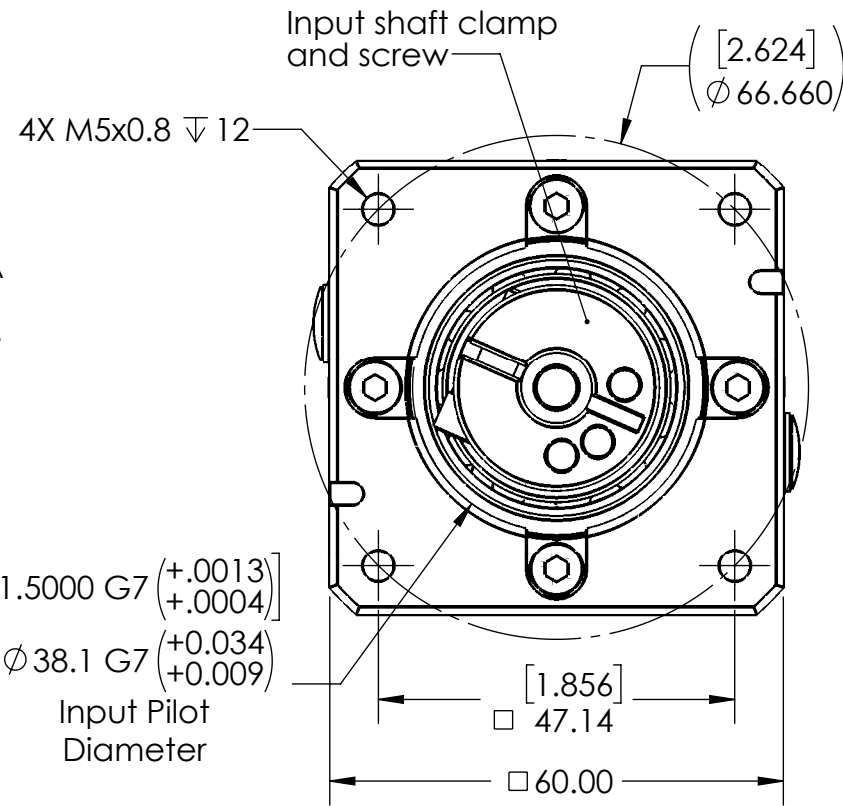
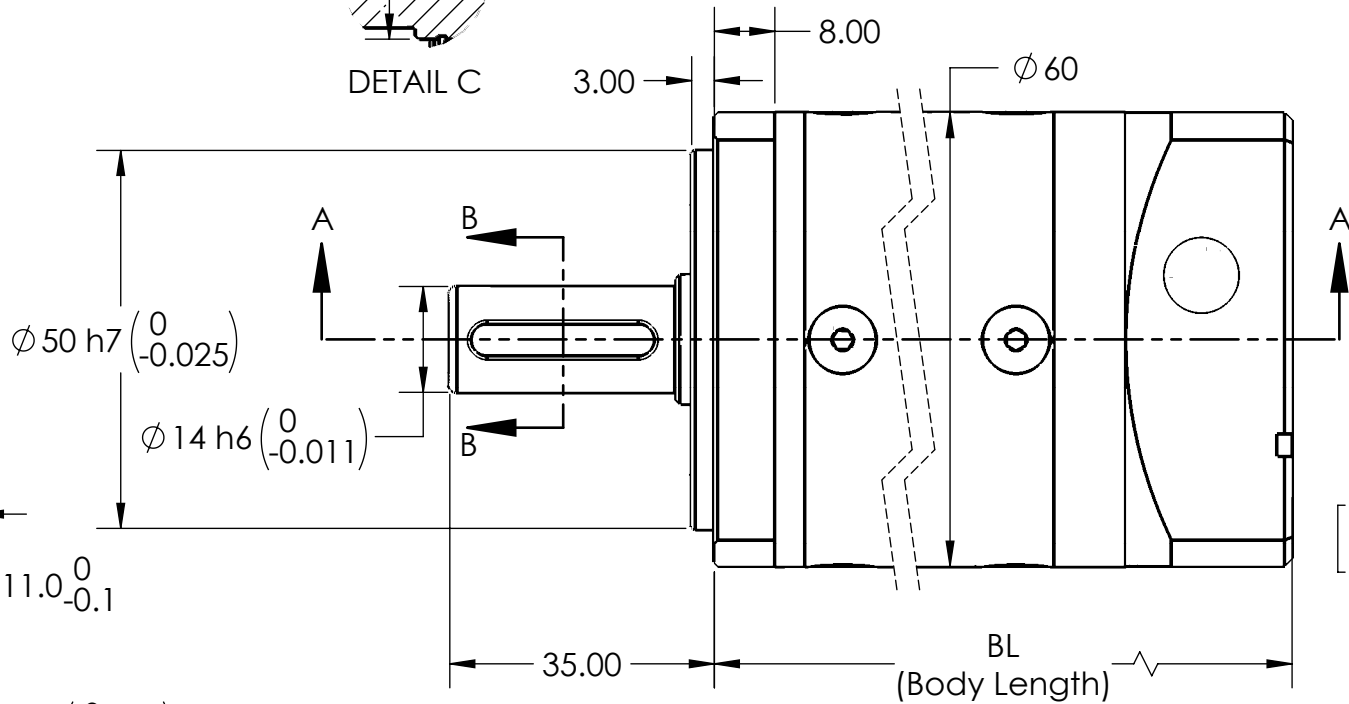
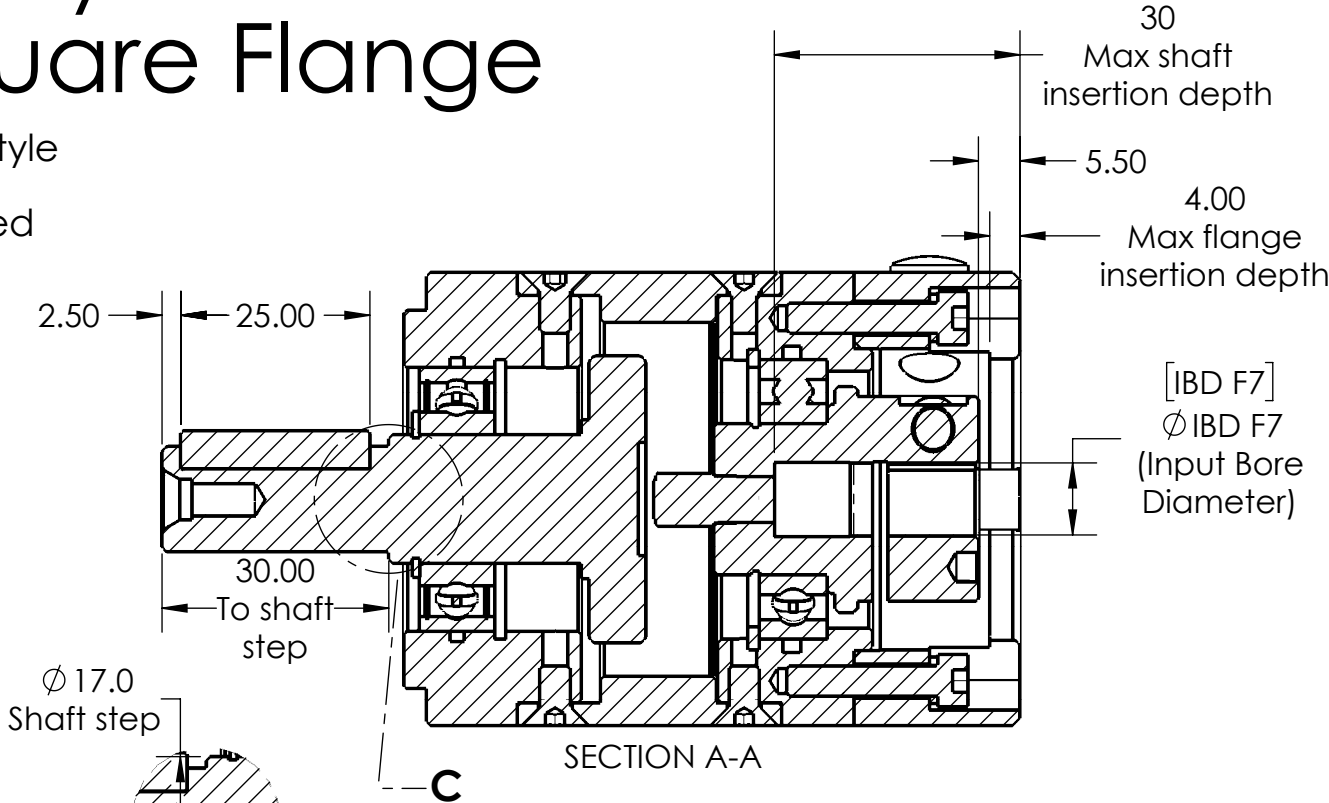
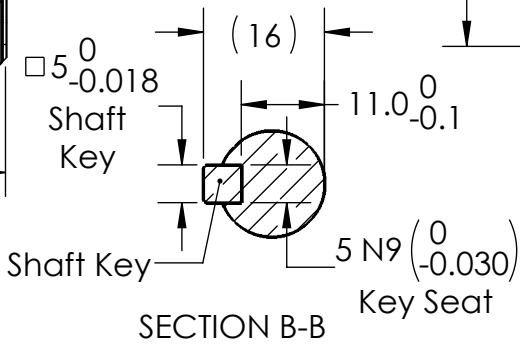
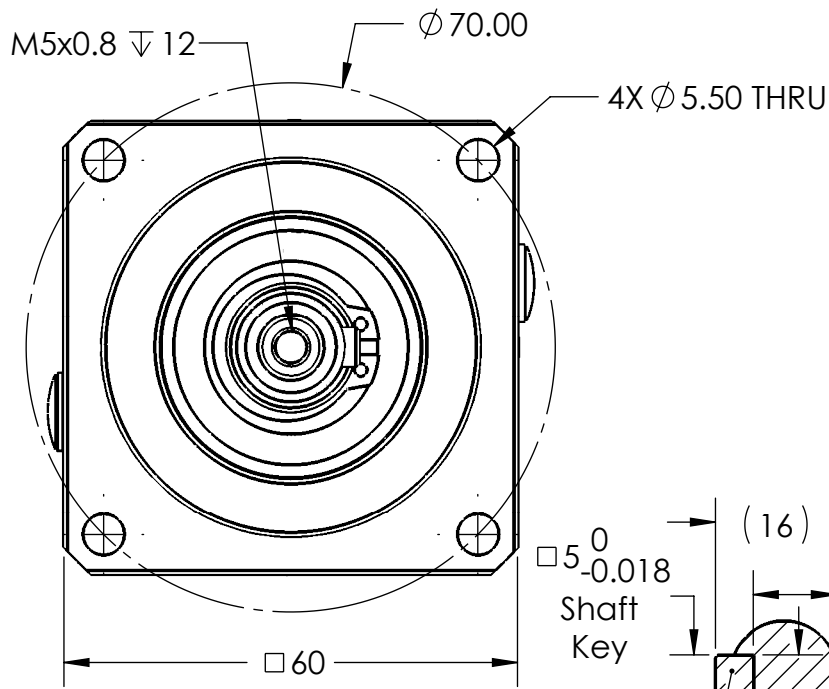
- Hardware included: Output shaft key, input clamp-style shaft coupling for motor shaft size shown in table
- All dimensions are in mm [inch] unless otherwise noted
- Sheet Scale 1:1

Identifier Number	Dimension Name	Possible Codes	Dimension Value mm [in]	Notes
5	BL (Body Length)	003, 004 ... 008, 010	78.50 [3.091]	1-Stage Gearbox
	[Set by gear ratio e.g. 3:1 gear ratio is 003 code]	009	96.50 [3.799]	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]	

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



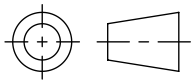
View Scale 2:3
(1-Stage gearbox shown)



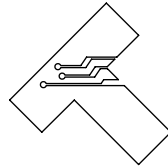
Teknic, Incorporated

Victor, NY 14564 USA

This document and related electronic files are the sole property of Teknic, Incorporated and contain proprietary information.



Third-Angle Projection



Additional documentation including product specifications, up-to-date compliance information, and manuals can be downloaded from Teknic's website.

Visit <https://www.teknic.com/> to access that documentation.

DWG. NO. REV

D1262/A

GSFL Planetary Gearbox, Inline, Straight Cut, Square Flange

3

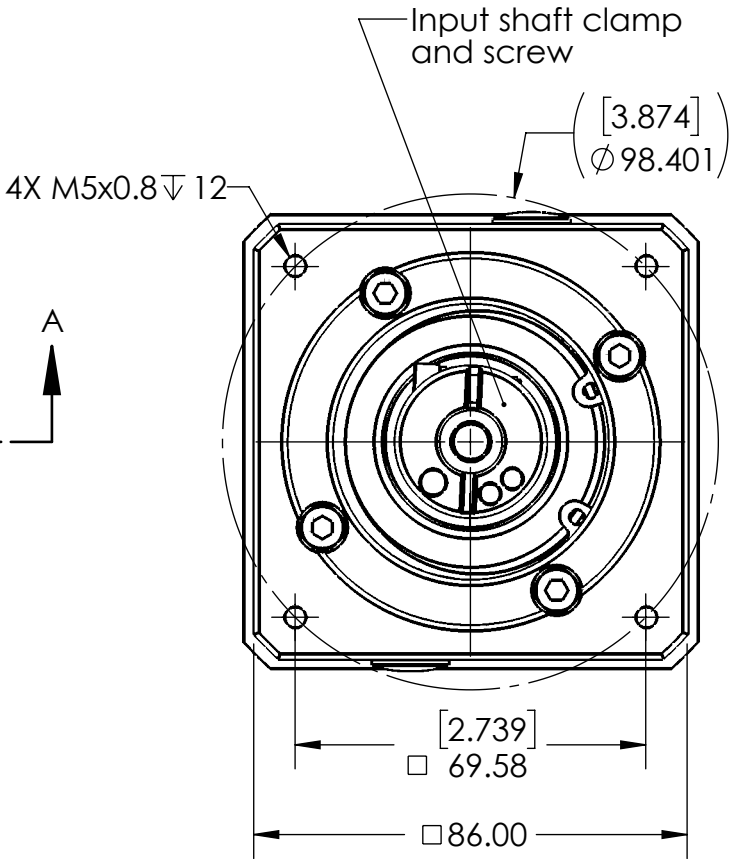
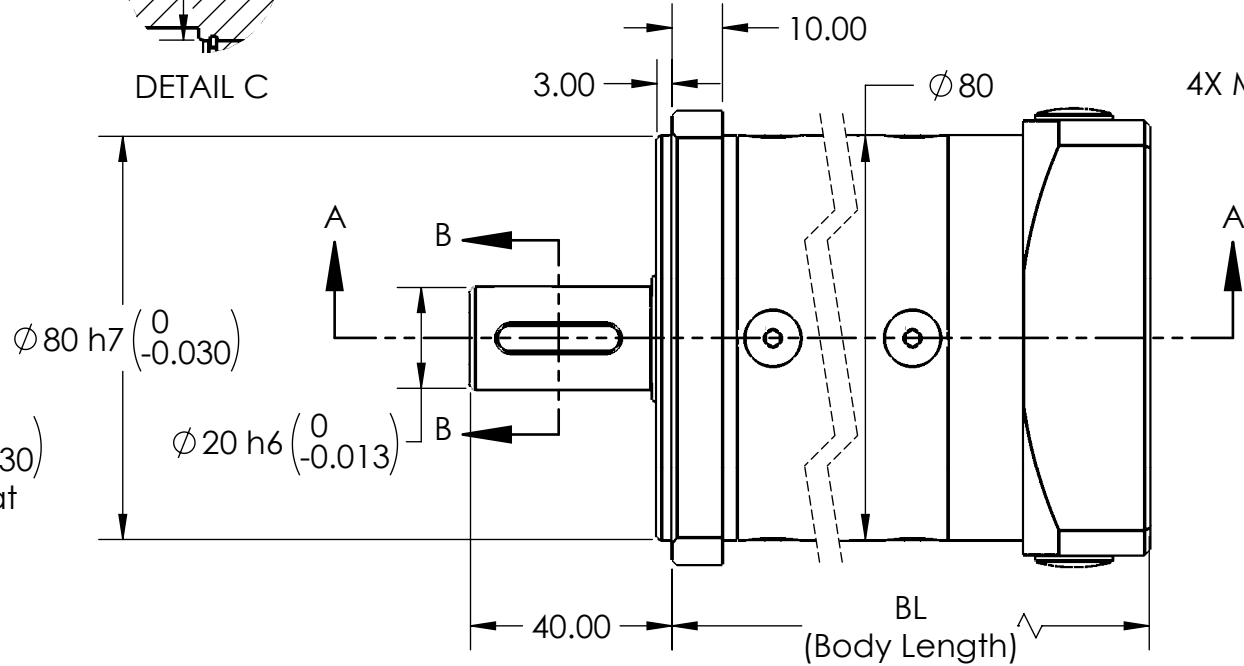
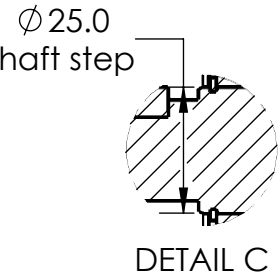
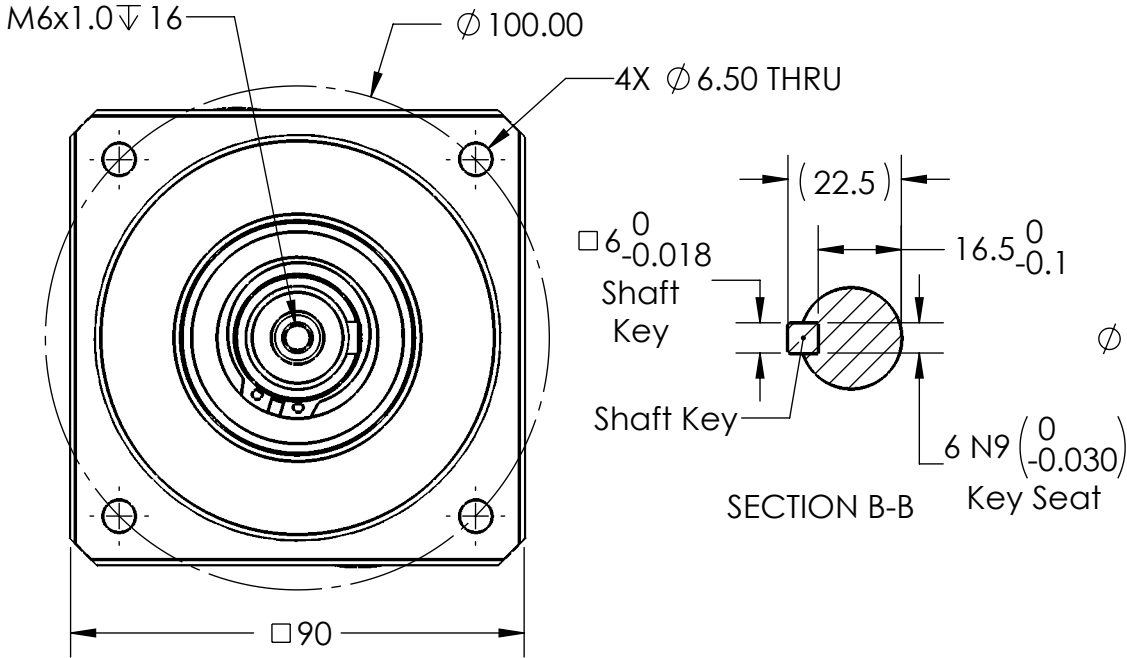
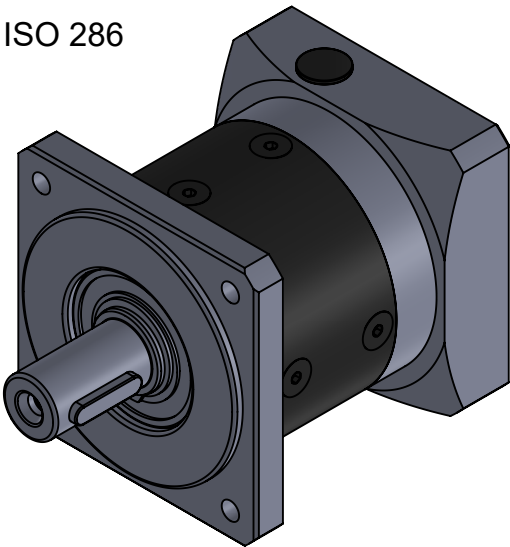
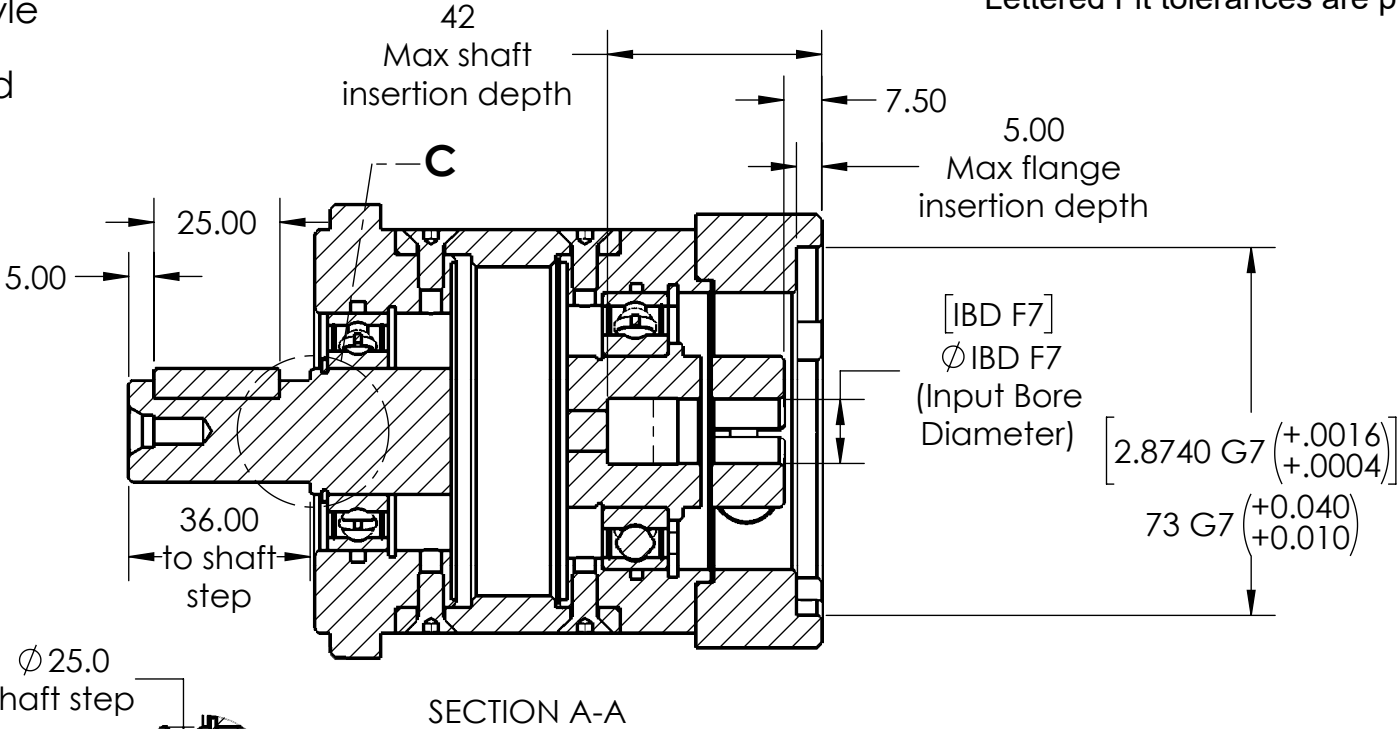
of 4
Sheets

GSFL NEMA 34 Planetary Gearbox: Inline, 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

Identifier Number	Dimension Name	Possible Codes	Dimension Value mm [in]	Notes
5	BL (Body Length) [Set by gear ratio e.g. 3:1 gear ratio is 003 code]	003, 004 ... 008, 010	97.50 [3.839]	1-Stage Gearbox
		009	119.50 [4.705]	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]	

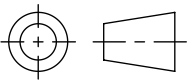
Unless otherwise specified, untoleranced dimensions default to:
X: ± .75mm [0.030]
X.X: ± .5mm [0.020]
X.XX: ± .25mm [0.010]
X.XXX: ± .125mm [0.005]
Lettered Fit tolerances are per ISO 286



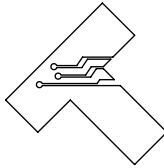
Teknic, Incorporated

Victor, NY 14564 USA

This document and related electronic files are the sole property of Teknic, Incorporated and contain proprietary information.



Third-Angle Projection



Additional documentation including product specifications, up-to-date compliance information, and manuals can be downloaded from Teknic's website.

Visit <https://www.teknic.com/> to access that documentation.

DWG. NO. REV

TITLE: GSFL Planetary Gearbox, Inline, Straight Cut, Square Flange

4 of 4 Sheets