

Configure a Model Number

Output Shaft Orientation

Type	Prefix
Horizontal	H
Vertical	V

Mounting Style

Type	Prefix
Shaft Mount (Hollow Shaft)	Y
Housing Mount (Solid Shaft)	U
Flange (Solid Shaft)	F
Foot (Solid Shaft)	H

Input Connection

Input Connection	Prefix	
	Reducer	Motor
Free Input Shaft		
Input Motor Adapter	J	JM
W/Input Motor Flange & Hollow Bore	X	XM

Modification

	Prefix
Unit build with special modifications	S
Shrink Disc	S
No special modifications applied	

Motor Power (HP or kW)

(if supplied and/or mounted by Sumitomo; applies only to 1750 RPM)

HP	(kW)	Prefix
1/8	(0.1)	01
1/4	(0.2)	02
1/3	(0.25)	03
1/2	(0.4)	05
3/4	(0.55)	08
1	(0.75)	1
1 1/2	(1.1)	1H
2	(1.5)	2
3	(2.2)	3
5	(3.7)	5
7 1/2	(5.5)	8
10	(7.5)	10
15	(11)	15
20	(15)	20
25	(18.5)	25
30	(22)	30
40	(30)	40
50	(37)	50
60	(45)	60
75	(55)	75

When ordering, the following information should be included:

- NEMA frame size for C-face adapter
- Motor Specification if supplied and/or mounted by Sumitomo (230/460 VAC 60 Hz is supplied in the United States, unless otherwise specified)
- Bushing Bore size must be supplied

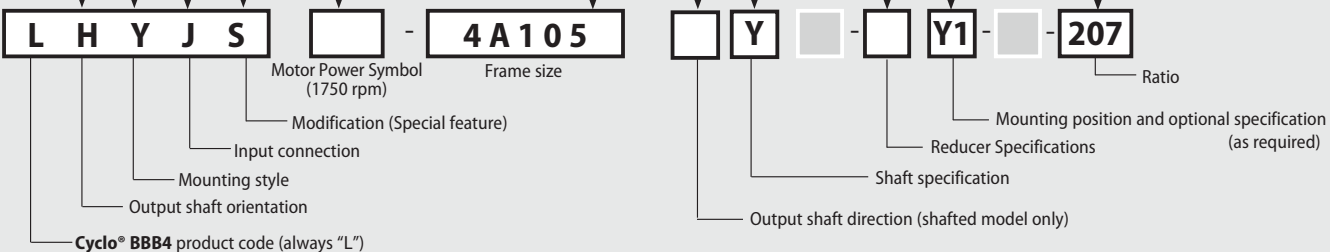
Optional conduit box positions must be specified, otherwise Y1 is supplied.

Frame Size

Single Reduction			
4A100	4B125	4C170	4E175
4A105	4B140	4C175	4E180
4A110	4B145	4D160	4E185
4A115	4B160	4D165	4E190
4A120	4B165	4D170	4E195
4A125	4C140	4D175	4F180
4A140	4C145	4D180	4F185
4A145	4C160	4D185	4F190
4B120	4C165	4E170	4F195
Double Reduction			
4A10DA	4B16DA	4C17DC	4E17DC
4A12DA	4B16DB	4D16DA	4E18DA
4A12DB	4B16DC	4D16DB	4E18DB
4A14DA	4C14DA	4D16DC	4E19DA
4A14DB	4C14DB	4D17DA	4E19DB
4A14DC	4C14DC	4D17DB	4F18DA
4B12DA	4C16DA	4D17DC	4F18DB
4B12DB	4C16DB	4D18DA	4F19DA
4B14DA	4C16DC	4D18DB	4F19DB
4B14DB	4C17DA	4E17DA	
4B14DC	4C17DB	4E17DB	

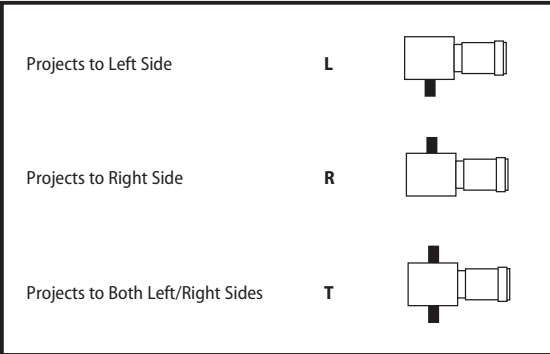
Reducer Specifications

Specification	Suffix
Standard	
Shovel Base	SB
Torque Limiter	TL



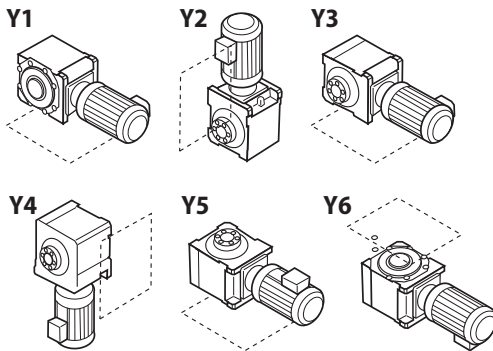
Nomenclature

Driven Shaft Direction (Shafted Model Only)



Shaft Specifications

Input Shaft	OUTPUT SHAFT		Suffix
	Hollow	Solid	
mm	Key (mm)	mm	
Inch	Key (Inch)	Inch	K
mm	Taper-Grip®		M
Inch	Taper-Grip®		Y



Mounting Positions

Nominal and Exact Ratio

Nomenclature Example:

LHYJS – 4A105Y – Y1 – 207

- L** – Cyclo® Bevel Buddybox
- H** – Horizontal Output Shaft
- Y** – Shaft Mount (Hollow Shaft)
- J** – C-Face Input
- S** – Modification (Special feature)
- 4A105** – Frame Size
- Y** – Taper-Grip® Bushing output, inch shaft input
- Y1** – Installation Position
- 207** – Ratio

Nominal and Exact Ratios

BBB4 with Planetary Input				BBB4 with Planetary Input Single Reduction						
Nominal Ratio		Frame Size	Exact Ratio	Nominal Ratio		Frame Size	Exact Ratio			
Input	Overall			Input	Overall					
3	11	4A10	10.50	6	21	All	21.0			
		4A12	10.89	7	22		22.4			
		4A14		8	25		24.5			
		4B14	10.85	8	28		28.0			
		4B16		11	35		35.2			
		4C16		13	39		38.5			
		4D16		15	46		45.5			
		4D17	10.5	17	53		52.5			
		4E17		21	60		59.5			
		4E18	10.82	21	67		67.2			
		4F18		25	74		73.5			
		4E19	12.99	25	80		80.0			
4F19	29	88		87.5						
4	13	4A10	12.80	29	102	All	101.5			
		4A12	12.95	35	112		112.0			
		4A14		43	123		122.5			
		4B14	12.80	43	151		150.5			
		4B16		51	179		178.5			
		4C16		59	207		206.5			
		4D16		71	249		248.5			
		4D17	13.09	87	305		304.5			
		4E17		119	417		416.5			
		4	14	4E18	13.01		Double Reduction		All	
				4F18			Input	Overall		Frame Size
				4E19	14.21		104	364		All
4F19	121			424		423.5				
4A10	14.00			143	501	500.5				
4A12				165	578	577.5				
4A14	14.00			195	683	682.5				
4B14				231	809	808.5				
4B16				273	956	955.5				
4C16				319	1117	1116.5				
4D16	14.32			377	1320	1319.5				
4D17				473	1656	1655.5				
4E17	14.23	559	1957	1956.5						
4E18		649	2272	2271.5						
4E19	15.36	731	2559	2558.5						
4F19		841	2944	2943.5						
5	16	4A10	15.65	1003	3511	All	3510.5			
		4A12	16.00	1247	4365		4364.5			
		4A14		1479	5177		5176.5			
		4B14	16.26	1849	6472		6471.5			
		4B16		2065	7228		7227.5			
		4C16		2537	8880		8879.5			
		4D16		3045	10658		10657.5			
		4D17	16.17	3481	12184		12183.5			
		4E17		4437	15530		15529.5			
		4E18	15.63	5133	17966		17965.5			
		4E19		6177	21620		21619.5			
		4F18	15.47	7569	26492		26491.5			
4F19	16.80									
5		18	4A10	17.12						
	4A12		17.50							
	4A14									
	4B14		17.78							
	4B16									
	4C16									
4D16										
4D17	17.68									
4E17										
4E18	17.10									
4E19										
4F18	16.92									
4F19										

Speed Reducers
Nomenclature