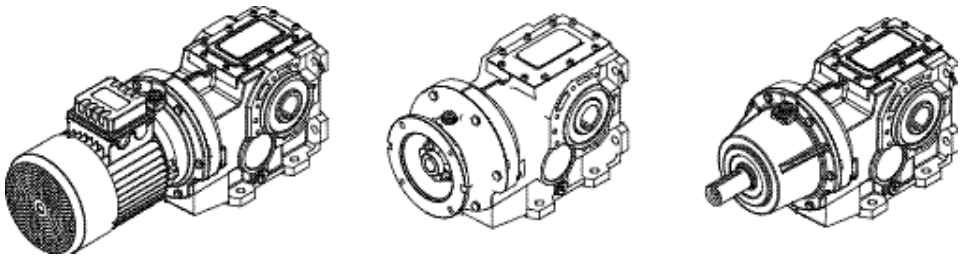
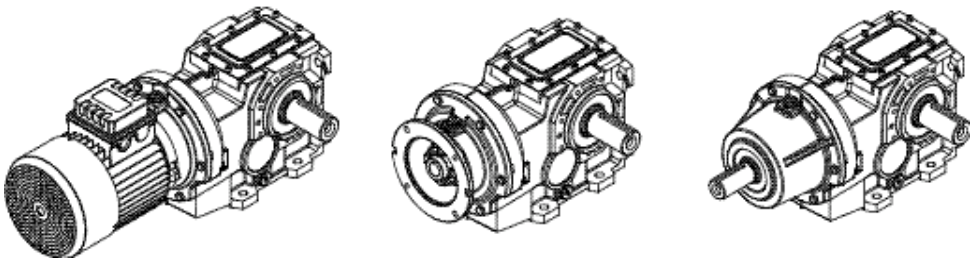
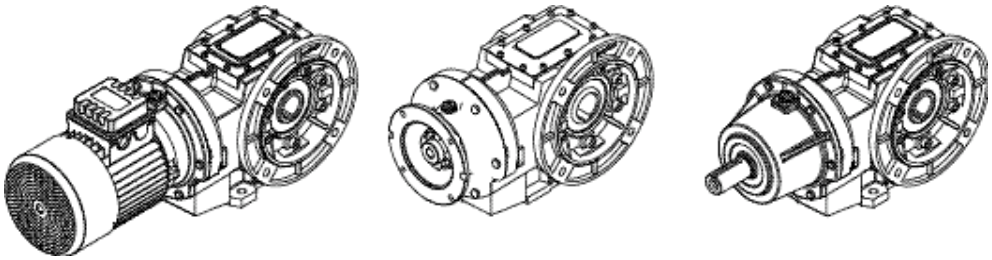
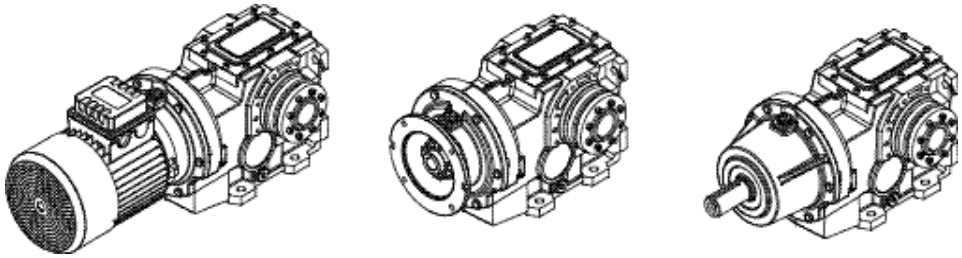
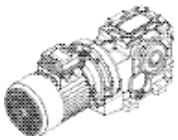
CB

PB

IB

B Versions

	**Triple Stage** Hollow Output Bore
	**Triple Stage** Solid Output Shaft
	**Triple Stage** Flange Mount
	**Triple Stage** Shrink Disk Mount



CB	083	UC	FB	1	39.60	T	90S4	Pos2	1.500	B3
1	2	3	4	5	6	7	8	9	10	11

1. Style

CB
Helical Bevel Gearmotor Motovario three-phase integral motor is permanently attached to the reducer. The motor and the reducer are supplied together.

PB
Helical Bevel Gear Reducer with Input Coupling C-face-type input flange allows the reducer to accept standard NEMA and IEC motors with c-face adapters. The motor shaft is coupled to the reducer using a two-piece coupling. Motors are supplied separately from the gear reducers.

IB
Helical Bevel Gear Reducer with Input Shaft Inch-standard or metric dimensioned input shaft allows for standard sprocket or pulley attachment, direct motor coupling or other types of free input.

2. Size

Three Stage Reduction	083
	103
	123
	143
	153

3. Output Style

- **U Universal**
  Includes machined housing faces for foot mounting the reducer or for optional mounting flanges.
- **C** Hollow output bore
- **D** Single extension output shaft, right side (all side references are viewed from input)
- **S** Single extension output shaft, left side
- **P** Double extension output shaft
- **L** Shrink disk mounting, right side bore
- **M** Shrink disk mounting, left side bore

4. Output Mounting Flange — FA, FB, FC
Helical Bevel units have different output flange choices, depending on the size of the gear reducer. Output mounting flanges are optional accessories that bolt directly on to the reducer housing. Please refer to the dimensional drawings for details.

5. Output Flange Position
Please refer to page 105 for output flange mounting position specifications.

6. Reduction Ratio
The reduction ratio determines the output speed of the reducer. Ratios will vary depending on the size of the reducer. For a list of reduction ratios, please refer to pages 106-110 or 112-128.

7. Input Type

T
Three Phase Integral Motor CB units are supplied with Motovario three-phase motors. Please check motor size compatibility on pages 106-110.

P
IEC Input Coupling PB units supplied with IEC standard motor inputs must specify the frame size of the mounted motor. SmartBox™ units are only available with the B5 style IEC input flange. Please check input flange availability on pages 106-110.

N
NEMA Input Coupling PB units supplied with NEMA standard c-face motor inputs must specify the frame size of the mounted motor. Please check input flange availability on pages 106-110.

UB
Input Shaft Please specify the diameter of the input shaft in inches or millimeters. Input shaft sizes are specified on the gear reducer dimension pages, 146-155.

8. Integral Motor Description

Description of Motor Frame Size, Power and Speed
The motor frame size, power and speed must be specified when ordering a CB style SmartBox™. Please check the gearmotor ratings on pages 130-145 for gearmotor specifications.

or

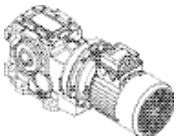
Input Coupling Frame Size The motor frame size, either IEC or NEMA, must be specified when ordering a PB style SmartBox™. Please check with the motor supplier for the correct frame size.

9. Motor Mounting Position

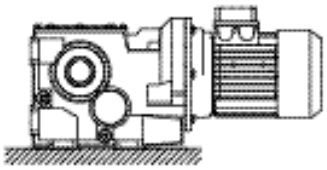
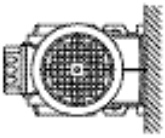
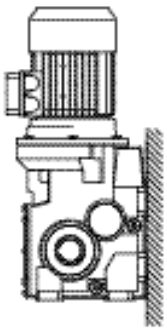
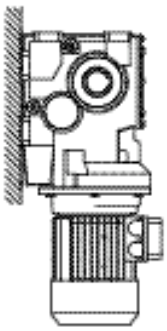
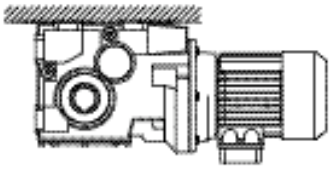
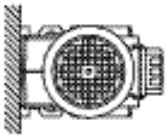
Integral Motors The motor mounting position is specified only when ordering the SmartBox™ CB style units. The motor mounting position indicates the position of the terminal box and the wire strain relief connection. The motor mounting position always relates to the gear reducer in position B3. Please refer to page 104 for motor mounting position specifications.

10. Output Shaft Diameter
Specify the diameter of the output shaft in inches or millimeters. Output shaft sizes are specified on the gear reducer dimension pages, 146-155.

11. Reducer Mounting Position
The mounting position of the gear reducer or gearmotor must be specified when ordering for the proper placement of the sight glass and lubrication amount. Please refer to page 104 for mounting positions.

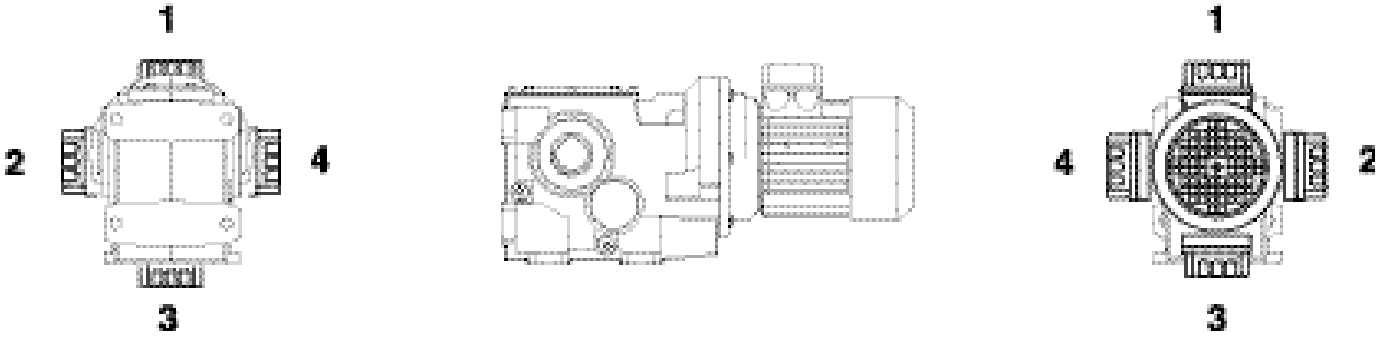


B Mounting Positions

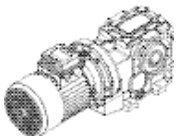
B3	B6	V5	V6
			
B8	**B7**		
			

Mounting position must be specified when ordering to provide the proper gear configuration and lubrication quantity. If mounting position is not specified, gear reducers are supplied in position B3 (standard position).

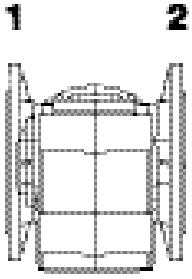
B Terminal Box Positions

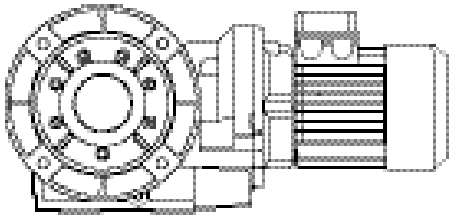


The motor terminal box position must be specified, according to the diagram, when ordering gearmotors.
If terminal box position is not specified, the gearmotor is supplied with the terminal box in position 1.
Terminal box positions always relate to the gear reducer mounted in position B3.
For vertical mounting positions, refer to the Engineering and Technical Specifications section of this catalog.
For positions not specified in this catalog, please contact Motovario.

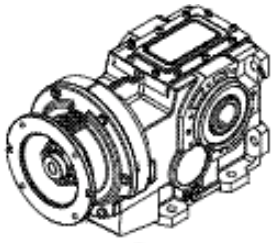


Flange Positions B

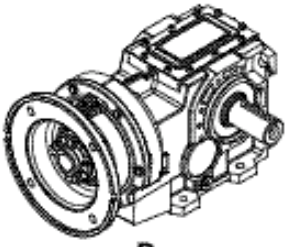




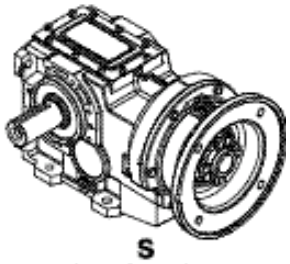
Output Styles B



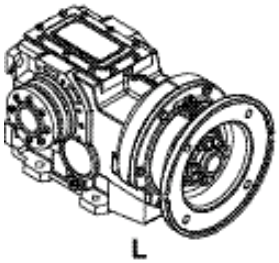
C
Hollow Output Bore



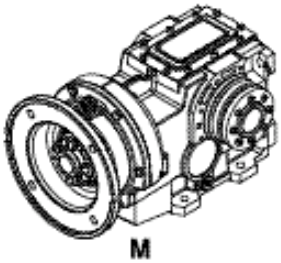
D
Single Output Shaft
Right Side Extension



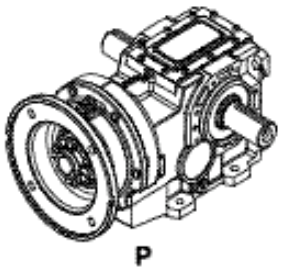
S
Single Output Shaft
Left Side Extension



L
Shrink Disk Mounting
Right Side Hollow Bore



M
Shrink Disk Mounting
Left Side Hollow Bore



P
Double Output Shaft

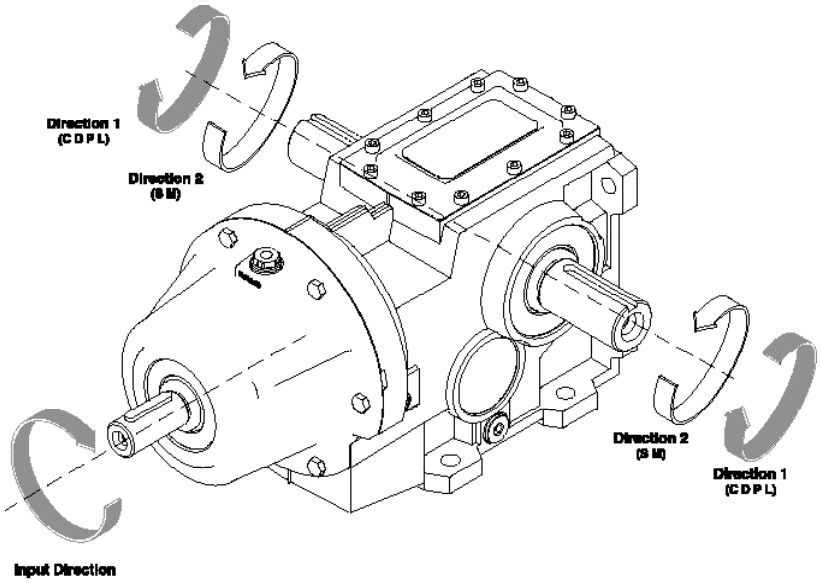
Direction of Rotation B

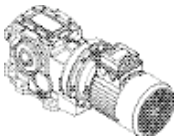
Helical bevel gear reducers are supplied with standard rotation:

Direction 1: standard when output is configured as C, D, P or L (see page 103)

Direction 2: standard when output is configured as S or M (see page 103)

Motovario helical bevel gear reducers can run in either direction. However, the standard direction of output rotation can be reversed. Please specify “Opposite Standard Rotation” when ordering.





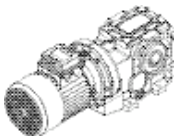
MOTOVARIO™

B Input Types

CB-PB…083

	NEMA					IEC				
i	56C	140TC	180TC	210TC	250TC	080	090	100	112	132
7.81						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
8.62						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
10.49						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
11.59						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
14.43						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
16.60						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
18.32						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
22.82						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
26.71						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
29.50						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
31.80						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
34.49						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
39.60						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
42.95						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
45.44						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
51.19						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
55.52						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
59.96						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
63.74						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
69.14						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
73.14						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
80.76						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
92.19						B5-B11	B5-B11	B5-B11	B5-B11	
100.57						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
105.29						B5-B11	B5-B11	B5-B11	B5-B11	
116.25						B5-B11	B5-B11	B5-B11	B5-B11	
126.76						B5-B11	B5-B11	B5-B11	B5-B11	
144.77						B5-B11	B5-B11	B5-B11	B5-B11	

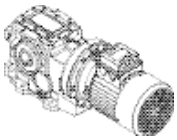
NEMA reducers available with c-face input only.
B5: Indicates IEC motor mount is available.
B11: Indicates integral IEC motor is available.



CB-PB…103

	NEMA					IEC					
i	56C	140TC	180TC	210TC	250TC	080	090	100	112	132	160
8.13						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
8.97						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
10.92						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
12.05						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
14.99						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
17.27						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
19.06						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
23.70						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
26.51						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
30.55						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
33.07						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
35.87						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
41.12						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
44.61						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
47.28						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
50.24						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
53.02						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
58.50						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
64.89						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
68.58						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
72.76						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
78.92						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
83.66						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
92.31						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
106.44						B5-B11	B5-B11	B5-B11	B5-B11		
114.80						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
120.42						B5-B11	B5-B11	B5-B11	B5-B11		
132.87						B5-B11	B5-B11	B5-B11	B5-B11		
144.69						B5-B11	B5-B11	B5-B11	B5-B11		
165.25						B5-B11	B5-B11	B5-B11	B5-B11		

NEMA reducers available with c-face input only.
B5: Indicates IEC motor mount is available.
B11: Indicates integral IEC motor is available.



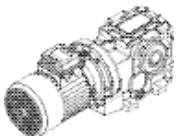
MOTOVARIO™

B Input Types

CB-PB…123

	NEMA					IEC					
i	140TC	180TC	210TC	250TC	280TC	090	100	112	132	160	180
7.97									B5-B11	B5	B5
9.62									B5-B11	B5	B5
10.33									B5-B11	B5	B5
12.48									B5-B11	B5	B5
13.84									B5-B11	B5	B5
15.38									B5-B11	B5	B5
18.58									B5-B11	B5	B5
20.61									B5-B11	B5	B5
22.78									B5-B11	B5	B5
25.89							B5-B11	B5-B11	B5-B11	B5	B5
27.51									B5-B11	B5	B5
30.79									B5-B11	B5	B5
31.26							B5-B11	B5-B11	B5-B11	B5	B5
34.66							B5-B11	B5-B11	B5-B11	B5	B5
40.53							B5-B11	B5-B11	B5-B11	B5	B5
44.89							B5-B11	B5-B11	B5-B11	B5	B5
49.80							B5-B11	B5-B11	B5-B11	B5	B5
54.30							B5-B11	B5-B11	B5-B11	B5	B5
59.36							B5-B11	B5-B11	B5-B11	B5	B5
62.69							B5-B11	B5-B11	B5-B11	B5	B5
69.43							B5-B11	B5-B11	B5-B11	B5	B5
74.42							B5-B11	B5-B11	B5-B11	B5	B5
80.04						B5-B11	B5-B11	B5-B11	B5-B11		
89.87							B5-B11	B5-B11	B5-B11	B5	B5
99.70							B5-B11	B5-B11	B5-B11	B5	B5
106.65						B5-B11	B5-B11	B5-B11	B5-B11		
119.60						B5-B11	B5-B11	B5-B11	B5-B11		
129.96						B5-B11	B5-B11	B5-B11	B5-B11		
144.43						B5-B11	B5-B11	B5-B11	B5-B11		
160.23						B5-B11	B5-B11	B5-B11	B5-B11		
180.40						B5-B11	B5-B11	B5-B11	B5-B11		

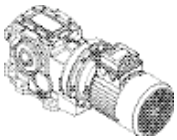
NEMA reducers available with c-face input only.
B5: Indicates IEC motor mount is available.
B11: Indicates integral IEC motor is available.



CB-PB…143

	NEMA					IEC					
i	180TC	210TC	250TC	280TC	320TC	100	112	132	160	180	200
10.84								B5-B11	B5	B5	B5
11.87								B5-B11	B5	B5	B5
14.49								B5-B11	B5	B5	B5
17.04								B5-B11	B5	B5	B5
18.66								B5-B11	B5	B5	B5
21.00								B5-B11	B5	B5	B5
22.77								B5-B11	B5	B5	B5
25.63								B5-B11	B5	B5	B5
27.44						B5-B11	B5-B11	B5-B11	B5	B5	B5
30.05						B5-B11	B5-B11	B5-B11	B5	B5	B5
33.01								B5-B11	B5	B5	B5
36.67						B5-B11	B5-B11	B5-B11	B5	B5	B5
40.29								B5-B11	B5	B5	B5
44.16						B5-B11	B5-B11	B5-B11	B5	B5	B5
48.35						B5-B11	B5-B11	B5-B11	B5	B5	B5
53.16						B5-B11	B5-B11	B5-B11	B5	B5	B5
54.63						B5-B11	B5-B11	B5-B11	B5	B5	B5
59.02						B5-B11	B5-B11	B5-B11	B5	B5	B5
64.88						B5-B11	B5-B11	B5-B11	B5	B5	B5
70.43						B5-B11	B5-B11	B5-B11	B5	B5	
77.12						B5-B11	B5-B11	B5-B11	B5	B5	
85.54						B5-B11	B5-B11	B5-B11	B5	B5	B5
94.13						B5-B11	B5-B11	B5-B11	B5	B5	
105.83						B5-B11	B5-B11	B5-B11			
111.94						B5-B11	B5-B11	B5-B11	B5	B5	
124.62						B5-B11	B5-B11	B5-B11	B5	B5	
136.44						B5-B11	B5-B11	B5-B11	B5	B5	
149.59						B5-B11	B5-B11	B5-B11	B5	B5	
166.53						B5-B11	B5-B11	B5-B11	B5	B5	
187.24						B5-B11	B5-B11	B5-B11			

NEMA reducers available with c-face input only.
B5: Indicates IEC motor mount is available.
B11: Indicates integral IEC motor is available.



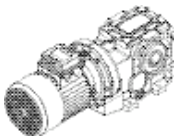
MOTOVARIO™

B Input Types

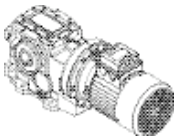
CB-PB…153

	NEMA						IEC				
i	180TC	210TC	250TC	280TC	320TC	360TC	132	160	180	200	225
10.49								B5	B5	B5	B5
12.64								B5	B5	B5	B5
14.01								B5	B5	B5	B5
15.40								B5	B5	B5	B5
18.56								B5	B5	B5	B5
20.56								B5	B5	B5	B5
23.86								B5	B5	B5	B5
25.19							B5	B5	B5	B5	B5
28.23							B5	B5	B5	B5	B5
30.35							B5	B5	B5	B5	B5
33.63							B5	B5	B5	B5	B5
35.02								B5	B5	B5	B5
38.51								B5	B5	B5	B5
42.30							B5	B5	B5	B5	B5
47.53							B5	B5	B5	B5	B5
50.56							B5	B5	B5	B5	B5
54.64							B5	B5	B5	B5	B5
57.27							B5	B5	B5	B5	B5
60.92							B5	B5	B5	B5	B5
63.47							B5	B5	B5	B5	B5
71.15							B5	B5	B5		
77.22							B5	B5	B5	B5	B5
83.89							B5	B5	B5		
87.65							B5	B5	B5		
93.05							B5	B5	B5	B5	B5
103.12							B5	B5	B5	B5	B5
123.88							B5	B5	B5		
134.27							B5	B5	B5		
149.26							B5	B5	B5		
165.42							B5	B5	B5		

NEMA reducers available with c-face input only.
B5: Indicates IEC motor mount is available.
B11: Indicates integral IEC motor is available.



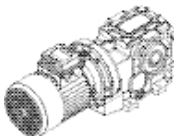
Notes B



MOTOVARIO™

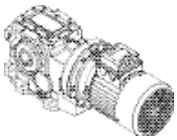
B Gear Reducer Ratings – Input Speed 1750 RPM

Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
4424	224	7.81	17.5	2469	379	**PB083**	**IB083**
5309	203	8.62	19.0	2475	353	**PB083**	**IB083**
5751	167	10.49	16.9	2632	388	**PB083**	**IB083**
6636	151	11.59	17.7	2648	375	**PB083**	**IB083**
7167	121	14.43	15.3	2843	415	**PB083**	**IB083**
7521	105	16.60	14.0	2976	438	**PB083**	**IB083**
7521	96	18.32	12.7	3101	460	**PB083**	**IB083**
7521	77	22.82	10.2	3392	502	**PB083**	**IB083**
7521	66	26.71	8.7	3614	527	**PB083**	**IB083**
7521	59	29.50	7.9	3760	541	**PB083**	**IB083**
7521	55	31.80	7.3	3874	551	**PB083**	**IB083**
7521	51	34.49	6.7	4000	560	**PB083**	**IB083**
7521	44	39.60	5.9	4045	562	**PB083**	**IB083**
7521	41	42.95	5.4	4045	562	**PB083**	**IB083**
7521	39	45.44	5.1	4045	562	**PB083**	**IB083**
7521	34	51.19	4.5	4045	562	**PB083**	**IB083**
7521	32	55.52	4.2	4045	562	**PB083**	**IB083**
7521	29	59.96	3.9	4045	562	**PB083**	**IB083**
7521	27	63.74	3.6	4045	562	**PB083**	**IB083**
7521	25	69.14	3.4	4045	562	**PB083**	**IB083**
7521	24	73.14	3.2	4045	562	**PB083**	**IB083**
7521	22	80.76	2.9	4045	562	**PB083**	**IB083**
7521	19	92.19	2.5	4045	562	**PB083**	**IB083**
7521	17	100.57	2.3	4045	562	**PB083**	**IB083**
7521	17	105.29	2.2	4045	562	**PB083**	**IB083**
7521	15	116.25	2.0	4045	562	**PB083**	**IB083**
7521	14	126.76	1.8	4045	562	**PB083**	**IB083**
7521	12	144.77	1.6	4045	562	**PB083**	**IB083**



Gear Reducer Ratings – Input Speed 1750 RPM B

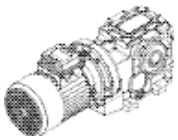
Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
7078	215	8.13	26.9	3067	242	**PB103**	**IB103**
7963	195	8.97	27.4	3121	234	**PB103**	**IB103**
8848	160	10.92	25.0	3305	272	**PB103**	**IB103**
8848	145	12.05	22.7	3436	309	**PB103**	**IB103**
10618	117	14.99	21.9	3611	322	**PB103**	**IB103**
12387	101	17.27	22.1	3692	318	**PB103**	**IB103**
12387	92	19.06	20.1	3844	351	**PB103**	**IB103**
12387	74	23.70	16.1	4198	413	**PB103**	**IB103**
13272	66	26.51	15.4	4326	424	**PB103**	**IB103**
14157	57	30.55	14.3	4515	442	**PB103**	**IB103**
15042	53	33.07	14.0	4597	447	**PB103**	**IB103**
15042	49	35.87	12.9	4752	464	**PB103**	**IB103**
15042	43	41.12	11.3	4944	490	**PB103**	**IB103**
15042	39	44.61	10.4	4944	504	**PB103**	**IB103**
15042	37	47.28	9.8	4944	514	**PB103**	**IB103**
15042	35	50.24	9.2	4944	523	**PB103**	**IB103**
15042	33	53.02	8.8	4944	531	**PB103**	**IB103**
15042	30	58.50	7.9	4944	544	**PB103**	**IB103**
15042	27	64.89	7.2	4944	556	**PB103**	**IB103**
15042	26	68.58	6.8	4944	562	**PB103**	**IB103**
15042	24	72.76	6.4	4944	568	**PB103**	**IB103**
15042	22	78.92	5.9	4944	576	**PB103**	**IB103**
15927	21	83.66	5.9	4944	576	**PB103**	**IB103**
15927	19	92.31	5.3	4944	585	**PB103**	**IB103**
15927	17	105.44	4.7	4944	596	**PB103**	**IB103**
15927	15	114.80	4.3	4944	602	**PB103**	**IB103**
15927	15	120.42	4.1	4944	605	**PB103**	**IB103**
15927	13	132.87	3.7	4944	611	**PB103**	**IB103**
15927	12	144.69	3.4	4944	616	**PB103**	**IB103**
15927	11	165.25	3.0	4944	623	**PB103**	**IB103**



MOTOVARIO™

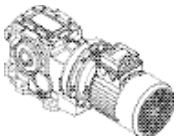
B Gear Reducer Ratings – Input Speed 1750 RPM

Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
13272	220	7.97	51.4	3504	575	**PB123**	**IB123**
15927	182	9.62	51.1	3518	578	**PB123**	**IB123**
17696	169	10.33	52.8	3440	566	**PB123**	**IB123**
17696	140	12.48	43.8	3794	624	**PB123**	**IB123**
18581	126	13.84	41.4	3895	638	**PB123**	**IB123**
18581	114	15.38	37.3	4109	664	**PB123**	**IB123**
19466	94	18.58	32.3	4409	696	**PB123**	**IB123**
22120	85	20.61	33.1	4332	691	**PB123**	**IB123**
24775	77	22.78	33.6	4255	688	**PB123**	**IB123**
24775	68	25.89	29.5	4563	713	**PB123**	**IB123**
24775	64	27.51	27.8	4714	724	**PB123**	**IB123**
24775	57	30.79	24.8	5002	743	**PB123**	**IB123**
24775	56	31.26	24.5	5042	745	**PB123**	**IB123**
24775	50	34.68	22.0	5318	760	**PB123**	**IB123**
24775	43	40.53	18.9	5752	780	**PB123**	**IB123**
26544	39	44.89	18.2	5841	784	**PB123**	**IB123**
28314	35	49.80	17.5	5946	789	**PB123**	**IB123**
28314	32	54.30	16.1	6214	798	**PB123**	**IB123**
28314	29	59.36	14.7	6498	807	**PB123**	**IB123**
29199	28	62.59	14.4	6568	809	**PB123**	**IB123**
29199	25	69.43	13.0	6742	817	**PB123**	**IB123**
30968	24	74.42	12.8	6742	818	**PB123**	**IB123**
30968	22	80.04	11.9	6742	824	**PB123**	**IB123**
30968	19	89.87	10.6	6742	832	**PB123**	**IB123**
30968	18	99.70	9.6	6742	839	**PB123**	**IB123**
30968	16	106.65	9.0	6742	843	**PB123**	**IB123**
30968	15	119.60	8.0	6742	849	**PB123**	**IB123**
30968	13	129.96	7.4	6742	853	**PB123**	**IB123**
30968	12	144.43	6.6	6742	858	**PB123**	**IB123**
30968	11	160.23	6.0	6742	862	**PB123**	**IB123**
30968	10	180.40	5.3	6742	866	**PB123**	**IB123**



Gear Reducer Ratings – Input Speed 1750 RPM B

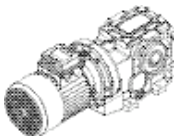
Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
26544	161	10.84	75.6	3476	517	**PB143**	**IB143**
27429	147	11.87	71.3	3574	538	**PB143**	**IB143**
27429	121	14.49	58.4	3987	604	**PB143**	**IB143**
28314	103	17.04	51.3	4264	640	**PB143**	**IB143**
31853	94	18.66	52.7	4149	633	**PB143**	**IB143**
35392	83	21.00	52.0	4107	636	**PB143**	**IB143**
38932	77	22.77	52.8	3983	632	**PB143**	**IB143**
40701	68	25.63	49.0	4121	651	**PB143**	**IB143**
40701	64	27.44	45.8	4300	668	**PB143**	**IB143**
41586	58	30.05	42.7	4463	683	**PB143**	**IB143**
41586	53	33.01	38.9	4723	703	**PB143**	**IB143**
42471	48	36.67	35.7	4943	718	**PB143**	**IB143**
42471	43	40.29	32.5	5221	735	**PB143**	**IB143**
42471	40	44.16	29.7	5501	749	**PB143**	**IB143**
44240	36	48.35	28.2	5624	756	**PB143**	**IB143**
44240	33	53.16	25.7	5931	769	**PB143**	**IB143**
44240	32	54.63	25.0	6021	773	**PB143**	**IB143**
44240	30	59.02	23.1	6280	782	**PB143**	**IB143**
44240	27	64.88	21.0	6608	793	**PB143**	**IB143**
44240	25	70.43	19.4	6900	801	**PB143**	**IB143**
44240	23	77.12	17.7	7232	810	**PB143**	**IB143**
44240	20	85.54	16.0	7624	819	**PB143**	**IB143**
44240	19	94.13	14.5	7998	826	**PB143**	**IB143**
44240	17	105.83	12.9	8472	834	**PB143**	**IB143**
44240	16	111.94	12.2	8706	838	**PB143**	**IB143**
44240	14	124.62	11.0	9165	844	**PB143**	**IB143**
44240	13	136.44	10.0	9566	849	**PB143**	**IB143**
44240	12	149.59	9.1	9985	853	**PB143**	**IB143**
44240	11	166.53	8.2	10113	858	**PB143**	**IB143**
44240	9.3	187.24	7.3	10113	863	**PB143**	**IB143**



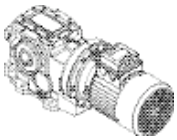
MOTOVARIO™

B Gear Reducer Ratings – Input Speed 1750 RPM

Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
39816	167	10.49	117.1	6713	899	**PB153**	**IB153**
39816	138	12.64	97.2	7233	899	**PB153**	**IB153**
44240	125	14.01	97.4	7368	899	**PB153**	**IB153**
44240	114	15.40	88.7	7654	1124	**PB153**	**IB153**
53088	94	18.56	88.3	7915	1124	**PB153**	**IB153**
57512	85	20.56	86.3	8091	1348	**PB153**	**IB153**
59282	73	23.86	76.7	8540	1798	**PB153**	**IB153**
60167	69	25.19	73.7	8701	1798	**PB153**	**IB153**
70785	62	28.23	77.4	8725	1798	**PB153**	**IB153**
70785	58	30.35	72.0	8999	1798	**PB153**	**IB153**
70785	52	33.63	64.9	9401	1799	**PB153**	**IB153**
70785	50	35.02	62.4	9562	1799	**PB153**	**IB153**
70785	45	38.81	56.3	9982	1799	**PB153**	**IB153**
70785	41	42.30	51.6	10346	1799	**PB153**	**IB153**
70785	37	47.53	46.0	10856	1799	**PB153**	**IB153**
70785	35	50.56	43.2	11134	1800	**PB153**	**IB153**
70785	32	54.64	40.0	11491	1800	**PB153**	**IB153**
70785	31	57.27	38.1	11712	1800	**PB153**	**IB153**
70785	29	60.92	35.9	12007	1800	**PB153**	**IB153**
70785	28	63.47	34.4	12206	1801	**PB153**	**IB153**
70785	25	71.15	30.7	12776	1801	**PB153**	**IB153**
70785	23	77.22	28.3	13198	1801	**PB153**	**IB153**
70785	21	83.89	26.0	13637	1802	**PB153**	**IB153**
70785	20	87.65	24.9	13874	1802	**PB153**	**IB153**
70785	19	93.05	23.5	14203	1802	**PB153**	**IB153**
70785	17	103.12	21.2	14608	1802	**PB153**	**IB153**
70785	14	123.88	17.6	14608	1802	**PB153**	**IB153**
70785	13	134.27	16.3	14608	1802	**PB153**	**IB153**
70785	12	149.26	14.6	14608	1802	**PB153**	**IB153**
70785	11	165.42	13.2	14608	1802	**PB153**	**IB153**



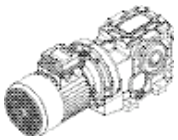
Notes B



MOTOVARIO™

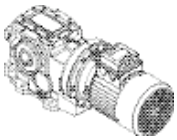
B Gear Reducer Ratings – Input Speed 1140 RPM

Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
4424	146	7.81	11.4	2913	379	**PB083**	**IB083**
5309	132	8.62	12.4	2934	353	**PB083**	**IB083**
5751	109	10.49	11.0	3121	388	**PB083**	**IB083**
6636	98	11.59	11.5	3154	375	**PB083**	**IB083**
7167	79	14.43	10.0	3387	415	**PB083**	**IB083**
7521	69	16.60	9.1	3546	438	**PB083**	**IB083**
7521	62	18.32	8.3	3689	460	**PB083**	**IB083**
7521	50	22.82	6.6	4024	502	**PB083**	**IB083**
7521	43	26.71	5.7	4045	527	**PB083**	**IB083**
7521	39	29.50	5.1	4045	541	**PB083**	**IB083**
7521	36	31.80	4.8	4045	551	**PB083**	**IB083**
7521	33	34.49	4.4	4045	560	**PB083**	**IB083**
7521	29	39.60	3.8	4045	562	**PB083**	**IB083**
7521	27	42.95	3.5	4045	562	**PB083**	**IB083**
7521	25	45.44	3.3	4045	562	**PB083**	**IB083**
7521	22	51.19	3.0	4045	562	**PB083**	**IB083**
7521	21	55.52	2.7	4045	562	**PB083**	**IB083**
7521	19	59.96	2.5	4045	562	**PB083**	**IB083**
7521	18	63.74	2.4	4045	562	**PB083**	**IB083**
7521	16	69.14	2.2	4045	562	**PB083**	**IB083**
7521	16	73.14	2.1	4045	562	**PB083**	**IB083**
7521	14	80.76	1.9	4045	562	**PB083**	**IB083**
7521	12	92.19	1.6	4045	562	**PB083**	**IB083**
7521	11	100.57	1.5	4045	562	**PB083**	**IB083**
7521	11	105.29	1.4	4045	562	**PB083**	**IB083**
7521	10	116.25	1.3	4045	562	**PB083**	**IB083**
7521	9.0	126.76	1.2	4045	562	**PB083**	**IB083**
7521	7.9	144.77	1.0	4045	562	**PB083**	**IB083**



Gear Reducer Ratings – Input Speed 1140 RPM B

Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
7078	140	8.13	17.5	3612	242	**PB103**	**IB103**
7963	127	8.97	17.9	3684	234	**PB103**	**IB103**
8848	104	10.92	16.3	3906	272	**PB103**	**IB103**
8848	95	12.05	14.8	4056	309	**PB103**	**IB103**
10618	76	14.99	14.2	4277	322	**PB103**	**IB103**
12387	66	17.27	14.4	4390	318	**PB103**	**IB103**
12387	60	19.06	13.1	4565	351	**PB103**	**IB103**
12387	48	23.70	10.5	4944	413	**PB103**	**IB103**
13272	43	26.51	10.1	4944	424	**PB103**	**IB103**
14157	37	30.55	9.3	4944	442	**PB103**	**IB103**
15042	34	33.07	9.1	4944	447	**PB103**	**IB103**
15042	32	35.87	8.4	4944	464	**PB103**	**IB103**
15042	28	41.12	7.4	4944	490	**PB103**	**IB103**
15042	26	44.61	6.8	4944	504	**PB103**	**IB103**
15042	24	47.28	6.4	4944	514	**PB103**	**IB103**
15042	23	50.24	6.0	4944	523	**PB103**	**IB103**
15042	22	53.02	5.7	4944	531	**PB103**	**IB103**
15042	19	58.50	5.2	4944	544	**PB103**	**IB103**
15042	18	64.89	4.7	4944	556	**PB103**	**IB103**
15042	17	68.58	4.4	4944	562	**PB103**	**IB103**
15042	16	72.76	4.2	4944	568	**PB103**	**IB103**
15042	14	78.92	3.8	4944	576	**PB103**	**IB103**
15927	14	83.66	3.8	4944	576	**PB103**	**IB103**
15927	12	92.31	3.5	4944	585	**PB103**	**IB103**
15927	11	105.44	3.0	4944	596	**PB103**	**IB103**
15927	10	114.80	2.8	4944	602	**PB103**	**IB103**
15927	9.5	120.42	2.7	4944	605	**PB103**	**IB103**
15927	8.6	132.87	2.4	4944	611	**PB103**	**IB103**
15927	7.9	144.69	2.2	4944	616	**PB103**	**IB103**
15927	6.9	165.25	1.9	4944	623	**PB103**	**IB103**



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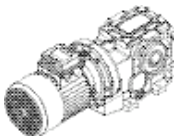
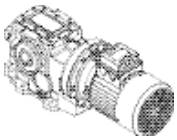
B Gear Reducer Ratings – Input Speed 1140 RPM

Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
13272	143	7.97	33.5	4271	575	**PB123**	**IB123**
15927	119	9.62	33.3	4335	578	**PB123**	**IB123**
17696	110	10.33	34.4	4277	566	**PB123**	**IB123**
17696	91	12.48	28.5	4684	624	**PB123**	**IB123**
18581	82	13.84	27.0	4816	638	**PB123**	**IB123**
18581	74	15.38	24.3	5063	664	**PB123**	**IB123**
19466	61	18.58	21.1	5424	696	**PB123**	**IB123**
22120	55	20.61	21.6	5383	691	**PB123**	**IB123**
24775	50	22.78	21.9	5341	688	**PB123**	**IB123**
24775	44	25.89	19.2	5696	713	**PB123**	**IB123**
24775	41	27.51	18.1	5870	724	**PB123**	**IB123**
24775	37	30.79	16.2	6202	743	**PB123**	**IB123**
24775	36	31.26	15.9	6247	745	**PB123**	**IB123**
24775	33	34.68	14.4	6566	760	**PB123**	**IB123**
24775	28	40.53	12.3	6742	780	**PB123**	**IB123**
26544	25	44.89	11.9	6742	784	**PB123**	**IB123**
28314	23	49.80	11.4	6742	789	**PB123**	**IB123**
28314	21	54.30	10.5	6742	798	**PB123**	**IB123**
28314	19	59.36	9.6	6742	807	**PB123**	**IB123**
29199	18	62.59	9.4	6742	809	**PB123**	**IB123**
29199	16	69.43	8.5	6742	817	**PB123**	**IB123**
30968	15	74.42	8.4	6742	818	**PB123**	**IB123**
30968	14	80.04	7.8	6742	824	**PB123**	**IB123**
30968	13	89.87	6.9	6742	832	**PB123**	**IB123**
30968	11	99.70	6.2	6742	839	**PB123**	**IB123**
30968	11	106.65	5.8	6742	843	**PB123**	**IB123**
30968	10	119.60	5.2	6742	849	**PB123**	**IB123**
30968	8.8	129.96	4.8	6742	853	**PB123**	**IB123**
30968	7.9	144.43	4.3	6742	858	**PB123**	**IB123**
30968	7.1	160.23	3.9	6742	862	**PB123**	**IB123**
30968	6.3	180.40	3.5	6742	866	**PB123**	**IB123**



Gear Reducer Ratings – Input Speed 1140 RPM B

Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
26544	105	10.84	49.2	4371	517	**PB143**	**IB143**
27429	96	11.87	46.5	4497	538	**PB143**	**IB143**
27429	79	14.49	38.1	4973	604	**PB143**	**IB143**
28314	67	17.04	33.4	5304	640	**PB143**	**IB143**
31853	61	18.66	34.3	5220	633	**PB143**	**IB143**
35392	54	21.00	33.9	5221	636	**PB143**	**IB143**
38932	50	22.77	34.4	5128	632	**PB143**	**IB143**
40701	44	25.63	31.9	5311	651	**PB143**	**IB143**
40701	42	27.44	29.8	5517	668	**PB143**	**IB143**
41586	38	30.05	27.8	5717	683	**PB143**	**IB143**
41586	35	33.01	25.3	6016	703	**PB143**	**IB143**
42471	31	36.67	23.3	6282	718	**PB143**	**IB143**
42471	28	40.29	21.2	6602	735	**PB143**	**IB143**
42471	26	44.16	19.3	6924	749	**PB143**	**IB143**
44240	24	48.35	18.4	7091	756	**PB143**	**IB143**
44240	21	53.16	16.7	7444	769	**PB143**	**IB143**
44240	21	54.63	16.3	7548	773	**PB143**	**IB143**
44240	19	59.02	15.1	7847	782	**PB143**	**IB143**
44240	18	64.88	13.7	8224	793	**PB143**	**IB143**
44240	16	70.43	12.6	8561	801	**PB143**	**IB143**
44240	15	77.12	11.5	8943	810	**PB143**	**IB143**
44240	13	85.54	10.4	9395	819	**PB143**	**IB143**
44240	12	94.13	9.4	9826	826	**PB143**	**IB143**
44240	11	105.83	8.4	10113	834	**PB143**	**IB143**
44240	10	111.94	7.9	10113	838	**PB143**	**IB143**
44240	9.1	124.62	7.1	10113	844	**PB143**	**IB143**
44240	8.4	136.44	6.5	10113	849	**PB143**	**IB143**
44240	7.6	149.59	5.9	10113	853	**PB143**	**IB143**
44240	6.8	166.53	5.3	10113	858	**PB143**	**IB143**
44240	6.1	187.24	4.7	10113	863	**PB143**	**IB143**



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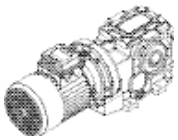
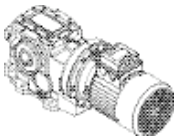
B Gear Reducer Ratings – Input Speed 1140 RPM

Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
39816	109	10.49	76.3	7958	899	**PB153**	**IB153**
39816	90	12.64	63.3	8557	899	**PB153**	**IB153**
44240	81	14.01	63.5	8738	899	**PB153**	**IB153**
44240	74	15.40	57.8	9068	1124	**PB153**	**IB153**
53088	61	18.56	57.5	9418	1124	**PB153**	**IB153**
57512	55	20.56	56.2	9646	1348	**PB153**	**IB153**
59282	48	23.86	50.0	10173	1798	**PB153**	**IB153**
60167	45	25.19	48.0	10363	1798	**PB153**	**IB153**
70785	40	28.23	50.4	10451	1798	**PB153**	**IB153**
70785	38	30.35	46.9	10767	1798	**PB153**	**IB153**
70785	34	33.63	42.3	11229	1799	**PB153**	**IB153**
70785	33	35.02	40.6	11415	1799	**PB153**	**IB153**
70785	29	38.81	36.7	11900	1799	**PB153**	**IB153**
70785	27	42.30	33.6	12318	1799	**PB153**	**IB153**
70785	24	47.53	29.9	12906	1799	**PB153**	**IB153**
70785	23	50.56	28.1	13226	1800	**PB153**	**IB153**
70785	21	54.64	26.0	13637	1800	**PB153**	**IB153**
70785	20	57.27	24.8	13892	1800	**PB153**	**IB153**
70785	19	60.92	23.4	14232	1800	**PB153**	**IB153**
70785	18	63.47	22.4	14461	1801	**PB153**	**IB153**
70785	16	71.15	20.0	14608	1801	**PB153**	**IB153**
70785	15	77.22	18.4	14608	1801	**PB153**	**IB153**
70785	14	83.89	17.0	14608	1802	**PB153**	**IB153**
70785	13	87.65	16.2	14608	1802	**PB153**	**IB153**
70785	12	93.05	15.3	14608	1802	**PB153**	**IB153**
70785	11	103.12	13.8	14608	1802	**PB153**	**IB153**
70785	9.2	123.88	11.5	14608	1802	**PB153**	**IB153**
70785	8.5	134.27	10.6	14608	1802	**PB153**	**IB153**
70785	7.6	149.26	9.5	14608	1802	**PB153**	**IB153**
70785	6.9	165.42	8.6	14608	1802	**PB153**	**IB153**



Notes B



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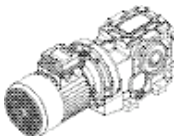
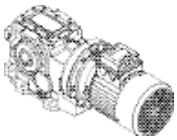
B Gear Reducer Ratings – Input Speed 875 RPM

Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
4424	112	7.81	8.7	3220	379	**PB083**	**IB083**
5309	101	8.62	9.5	3251	353	**PB083**	**IB083**
5751	83	10.49	8.5	3460	388	**PB083**	**IB083**
6636	76	11.59	8.8	3504	375	**PB083**	**IB083**
7167	61	14.43	7.7	3764	415	**PB083**	**IB083**
7521	53	16.60	7.0	3940	438	**PB083**	**IB083**
7521	48	18.32	6.3	4045	460	**PB083**	**IB083**
7521	38	22.82	5.1	4045	502	**PB083**	**IB083**
7521	33	26.71	4.3	4045	527	**PB083**	**IB083**
7521	30	29.50	3.9	4045	541	**PB083**	**IB083**
7521	28	31.80	3.6	4045	551	**PB083**	**IB083**
7521	25	34.49	3.4	4045	560	**PB083**	**IB083**
7521	22	39.60	2.9	4045	562	**PB083**	**IB083**
7521	20	42.95	2.7	4045	562	**PB083**	**IB083**
7521	19	45.44	2.6	4045	562	**PB083**	**IB083**
7521	17	51.19	2.3	4045	562	**PB083**	**IB083**
7521	16	55.52	2.1	4045	562	**PB083**	**IB083**
7521	15	59.96	1.9	4045	562	**PB083**	**IB083**
7521	14	63.74	1.8	4045	562	**PB083**	**IB083**
7521	13	69.14	1.7	4045	562	**PB083**	**IB083**
7521	12	73.14	1.6	4045	562	**PB083**	**IB083**
7521	11	80.76	1.4	4045	562	**PB083**	**IB083**
7521	9.5	92.19	1.3	4045	562	**PB083**	**IB083**
7521	8.7	100.57	1.2	4045	562	**PB083**	**IB083**
7521	8.3	105.29	1.1	4045	562	**PB083**	**IB083**
7521	7.5	116.25	1.0	4045	562	**PB083**	**IB083**
7521	6.9	126.76	0.9	4045	562	**PB083**	**IB083**
7521	6.0	144.77	0.8	4045	562	**PB083**	**IB083**



Gear Reducer Ratings – Input Speed 875 RPM B

Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
7078	108	8.13	13.4	3989	242	**PB103**	**IB103**
7963	98	8.97	13.7	4073	234	**PB103**	**IB103**
8848	80	10.92	12.5	4321	272	**PB103**	**IB103**
8848	73	12.05	11.3	4485	309	**PB103**	**IB103**
10618	58	14.99	10.9	4738	322	**PB103**	**IB103**
12387	51	17.27	11.1	4873	318	**PB103**	**IB103**
12387	46	19.06	10.0	4944	351	**PB103**	**IB103**
12387	37	23.70	8.1	4944	413	**PB103**	**IB103**
13272	33	26.51	7.7	4944	424	**PB103**	**IB103**
14157	29	30.55	7.1	4944	442	**PB103**	**IB103**
15042	26	33.07	7.0	4944	447	**PB103**	**IB103**
15042	24	35.87	6.5	4944	464	**PB103**	**IB103**
15042	21	41.12	5.6	4944	490	**PB103**	**IB103**
15042	20	44.61	5.2	4944	504	**PB103**	**IB103**
15042	19	47.28	4.9	4944	514	**PB103**	**IB103**
15042	17	50.24	4.6	4944	523	**PB103**	**IB103**
15042	17	53.02	4.4	4944	531	**PB103**	**IB103**
15042	15	58.50	4.0	4944	544	**PB103**	**IB103**
15042	13	64.89	3.6	4944	556	**PB103**	**IB103**
15042	13	68.58	3.4	4944	562	**PB103**	**IB103**
15042	12	72.76	3.2	4944	568	**PB103**	**IB103**
15042	11	78.92	2.9	4944	576	**PB103**	**IB103**
15927	10	83.66	2.9	4944	576	**PB103**	**IB103**
15927	9.5	92.31	2.7	4944	585	**PB103**	**IB103**
15927	8.3	105.44	2.3	4944	596	**PB103**	**IB103**
15927	7.6	114.80	2.1	4944	602	**PB103**	**IB103**
15927	7.3	120.42	2.0	4944	605	**PB103**	**IB103**
15927	6.6	132.87	1.8	4944	611	**PB103**	**IB103**
15927	6.0	144.69	1.7	4944	616	**PB103**	**IB103**
15927	5.3	165.25	1.5	4944	623	**PB103**	**IB103**



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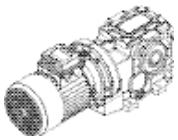
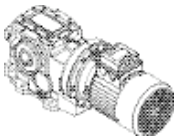
B Gear Reducer Ratings – Input Speed 875 RPM

Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
13272	110	7.97	25.7	4802	575	**PB123**	**IB123**
15927	91	9.62	25.5	4900	578	**PB123**	**IB123**
17696	85	10.33	26.4	4855	566	**PB123**	**IB123**
17696	70	12.48	21.9	5300	624	**PB123**	**IB123**
18581	63	13.84	20.7	5453	638	**PB123**	**IB123**
18581	57	15.38	18.6	5723	664	**PB123**	**IB123**
19466	47	18.58	16.2	6127	696	**PB123**	**IB123**
22120	42	20.61	16.6	6109	691	**PB123**	**IB123**
24775	38	22.78	16.8	6092	688	**PB123**	**IB123**
24775	34	25.89	14.8	6479	713	**PB123**	**IB123**
24775	32	27.51	13.9	6669	724	**PB123**	**IB123**
24775	28	30.79	12.4	6742	743	**PB123**	**IB123**
24775	28	31.26	12.2	6742	745	**PB123**	**IB123**
24775	25	34.68	11.0	6742	760	**PB123**	**IB123**
24775	22	40.53	9.4	6742	780	**PB123**	**IB123**
26544	19	44.89	9.1	6742	784	**PB123**	**IB123**
28314	18	49.80	8.8	6742	789	**PB123**	**IB123**
28314	16	54.30	8.0	6742	798	**PB123**	**IB123**
28314	15	59.36	7.4	6742	807	**PB123**	**IB123**
29199	14	62.59	7.2	6742	809	**PB123**	**IB123**
29199	13	69.43	6.5	6742	817	**PB123**	**IB123**
30968	12	74.42	6.4	6742	818	**PB123**	**IB123**
30968	11	80.04	6.0	6742	824	**PB123**	**IB123**
30968	10	89.87	5.3	6742	832	**PB123**	**IB123**
30968	8.8	99.70	4.8	6742	839	**PB123**	**IB123**
30968	8.2	106.65	4.5	6742	843	**PB123**	**IB123**
30968	7.3	119.60	4.0	6742	849	**PB123**	**IB123**
30968	6.7	129.96	3.7	6742	853	**PB123**	**IB123**
30968	6.1	144.43	3.3	6742	858	**PB123**	**IB123**
30968	5.5	160.23	3.0	6742	862	**PB123**	**IB123**
30968	4.9	180.40	2.6	6742	866	**PB123**	**IB123**



Gear Reducer Ratings – Input Speed 875 RPM B

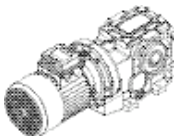
Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
26544	81	10.84	37.8	4991	517	**PB143**	**IB143**
27429	74	11.87	35.7	5135	538	**PB143**	**IB143**
27429	60	14.49	29.2	5654	604	**PB143**	**IB143**
28314	51	17.04	25.6	6023	640	**PB143**	**IB143**
31853	47	18.66	26.3	5962	633	**PB143**	**IB143**
35392	42	21.00	26.0	5991	636	**PB143**	**IB143**
38932	38	22.77	26.4	5919	632	**PB143**	**IB143**
40701	34	25.63	24.5	6134	651	**PB143**	**IB143**
40701	32	27.44	22.9	6359	668	**PB143**	**IB143**
41586	29	30.05	21.4	6584	683	**PB143**	**IB143**
41586	27	33.01	19.4	6911	703	**PB143**	**IB143**
42471	24	36.67	17.9	7209	718	**PB143**	**IB143**
42471	22	40.29	16.3	7558	735	**PB143**	**IB143**
42471	20	44.16	14.8	7909	749	**PB143**	**IB143**
44240	18	48.35	14.1	8106	756	**PB143**	**IB143**
44240	16	53.16	12.8	8491	769	**PB143**	**IB143**
44240	16	54.63	12.5	8604	773	**PB143**	**IB143**
44240	15	59.02	11.6	8931	782	**PB143**	**IB143**
44240	13	64.88	10.5	9343	793	**PB143**	**IB143**
44240	12	70.43	9.7	9710	801	**PB143**	**IB143**
44240	11	77.12	8.9	10113	810	**PB143**	**IB143**
44240	10	85.54	8.0	10113	819	**PB143**	**IB143**
44240	9.3	94.13	7.3	10113	826	**PB143**	**IB143**
44240	8.3	105.83	6.4	10113	834	**PB143**	**IB143**
44240	7.8	111.94	6.1	10113	838	**PB143**	**IB143**
44240	7.0	124.62	5.5	10113	844	**PB143**	**IB143**
44240	6.4	136.44	5.0	10113	849	**PB143**	**IB143**
44240	5.8	149.59	4.6	10113	853	**PB143**	**IB143**
44240	5.3	166.53	4.1	10113	858	**PB143**	**IB143**
44240	4.7	187.24	3.6	10113	863	**PB143**	**IB143**



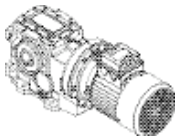
MOTOVARIO™

B Gear Reducer Ratings – Input Speed 875 RPM

Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
39816	83	10.49	58.6	8819	899	**PB153**	**IB153**
39816	69	12.64	48.6	9473	899	**PB153**	**IB153**
44240	62	14.01	48.7	9686	899	**PB153**	**IB153**
44240	57	15.40	44.3	10045	1124	**PB153**	**IB153**
53088	47	18.56	44.1	10457	1124	**PB153**	**IB153**
57512	43	20.56	43.2	10722	1348	**PB153**	**IB153**
59282	37	23.86	38.3	11302	1798	**PB153**	**IB153**
60167	35	25.19	36.9	11513	1798	**PB153**	**IB153**
70785	31	28.23	38.7	11645	1798	**PB153**	**IB153**
70785	29	30.35	36.0	11990	1798	**PB153**	**IB153**
70785	26	33.63	32.5	12494	1799	**PB153**	**IB153**
70785	25	35.02	31.2	12697	1799	**PB153**	**IB153**
70785	23	38.81	28.1	13226	1799	**PB153**	**IB153**
70785	21	42.30	25.8	13683	1799	**PB153**	**IB153**
70785	18	47.53	23.0	14324	1799	**PB153**	**IB153**
70785	17	50.56	21.6	14608	1800	**PB153**	**IB153**
70785	16	54.64	20.0	14608	1800	**PB153**	**IB153**
70785	15	57.27	19.1	14608	1800	**PB153**	**IB153**
70785	14	60.92	17.9	14608	1800	**PB153**	**IB153**
70785	14	63.47	17.2	14608	1801	**PB153**	**IB153**
70785	12	71.15	15.4	14608	1801	**PB153**	**IB153**
70785	11	77.22	14.1	14608	1801	**PB153**	**IB153**
70785	10	83.89	13.0	14608	1802	**PB153**	**IB153**
70785	10	87.65	12.5	14608	1802	**PB153**	**IB153**
70785	9.4	93.05	11.7	14608	1802	**PB153**	**IB153**
70785	8.5	103.12	10.6	14608	1802	**PB153**	**IB153**
70785	7.1	123.88	8.8	14608	1802	**PB153**	**IB153**
70785	6.5	134.27	8.1	14608	1802	**PB153**	**IB153**
70785	5.9	149.26	7.3	14608	1802	**PB153**	**IB153**
70785	5.3	165.42	6.6	14608	1802	**PB153**	**IB153**



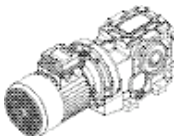
Notes B



MOTOVARIO™

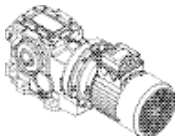
B Gearmotor Ratings – Motor Speed 1750 RPM

Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
0.75	224	23.3	190	7.81	4424	2469	**CB083**	80A4	**PB083**	56C
	203	25.3	210	8.62	5309	2475	**CB083**	80A4	**PB083**	56C
	167	22.5	255	10.49	5751	2632	**CB083**	80A4	**PB083**	56C
	151	23.6	282	11.59	6636	2648	**CB083**	80A4	**PB083**	56C
	121	20.4	351	14.43	7167	2843	**CB083**	80A4	**PB083**	56C
	105	18.6	403	16.60	7521	2976	**CB083**	80A4	**PB083**	56C
	96	16.9	445	18.32	7521	3101	**CB083**	80A4	**PB083**	56C
	77	13.6	555	22.82	7521	3392	**CB083**	80A4	**PB083**	56C
	66	11.6	649	26.71	7521	3614	**CB083**	80A4	**PB083**	56C
	59	10.5	717	29.50	7521	3760	**CB083**	80A4	**PB083**	56C
	55	9.7	773	31.80	7521	3874	**CB083**	80A4	**PB083**	56C
	51	9.0	838	34.49	7521	4000	**CB083**	80A4	**PB083**	56C
	44	7.8	962	39.60	7521	4045	**CB083**	80A4	**PB083**	56C
	41	7.2	1044	42.95	7521	4045	**CB083**	80A4	**PB083**	56C
	39	6.8	1104	45.44	7521	4045	**CB083**	80A4	**PB083**	56C
	34	6.0	1244	51.19	7521	4045	**CB083**	80A4	**PB083**	56C
	32	5.6	1349	55.52	7521	4045	**CB083**	80A4	**PB083**	56C
	29	5.2	1457	59.96	7521	4045	**CB083**	80A4	**PB083**	56C
	27	4.9	1549	63.74	7521	4045	**CB083**	80A4	**PB083**	56C
	25	4.5	1680	69.14	7521	4045	**CB083**	80A4	**PB083**	56C
	24	4.2	1778	73.14	7521	4045	**CB083**	80A4	**PB083**	56C
	22	3.8	1963	80.76	7521	4045	**CB083**	80A4	**PB083**	56C
	19	3.4	2241	92.19	7521	4045	**CB083**	80A4	**PB083**	56C
	17	3.1	2444	100.57	7521	4045	**CB083**	80A4	**PB083**	56C
	17	2.9	2559	105.29	7521	4045	**CB083**	80A4	**PB083**	56C
	15	2.7	2825	116.25	7521	4045	**CB083**	80A4	**PB083**	56C
	14	2.4	3081	126.76	7521	4045	**CB083**	80A4	**PB083**	56C
	12	2.1	3518	144.77	7521	4045	**CB083**	80A4	**PB083**	56C
	11	4.0	4016	165.25	15927	4944	**CB103**	80A4	**PB103**	56C
1.0	224	17.5	253	7.81	4424	2469	**CB083**	80B4	**PB083**	56C/143/145TC
	203	19.0	279	8.62	5309	2475	**CB083**	80B4	**PB083**	56C/143/145TC
	167	16.9	340	10.49	5751	2632	**CB083**	80B4	**PB083**	56C/143/145TC
	151	17.7	375	11.59	6636	2648	**CB083**	80B4	**PB083**	56C/143/145TC
	121	15.3	468	14.43	7167	2843	**CB083**	80B4	**PB083**	56C/143/145TC
	105	14.0	538	16.60	7521	2976	**CB083**	80B4	**PB083**	56C/143/145TC
	96	12.7	594	18.32	7521	3101	**CB083**	80B4	**PB083**	56C/143/145TC
	77	10.2	739	22.82	7521	3392	**CB083**	80B4	**PB083**	56C/143/145TC
	66	8.7	866	26.71	7521	3614	**CB083**	80B4	**PB083**	56C/143/145TC
	59	7.9	956	29.50	7521	3760	**CB083**	80B4	**PB083**	56C/143/145TC
	55	7.3	1030	31.80	7521	3874	**CB083**	80B4	**PB083**	56C/143/145TC
	51	6.7	1118	34.49	7521	4000	**CB083**	80B4	**PB083**	56C/143/145TC
	44	5.9	1283	39.60	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC
	41	5.4	1392	42.95	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC
	39	5.1	1472	45.44	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC



Gearmotor Ratings – Motor Speed 1750 RPM B

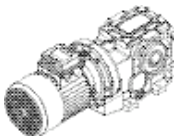
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
1.0	34	4.5	1659	51.19	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC
	32	4.2	1799	55.52	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC
	29	3.9	1943	59.96	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC
	27	3.6	2066	63.74	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC
	25	3.4	2241	69.14	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC
	24	3.2	2370	73.14	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC
	22	2.9	2617	80.76	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC
	19	2.5	2987	92.19	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC
	17	2.3	3259	100.57	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC
	17	2.2	3412	105.29	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC
	15	2.0	3767	116.25	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC
	14	1.8	4108	126.76	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC
	13	3.7	4306	132.87	15927	4944	**CB103**	80B4	**PB103**	56C/143/145TC
	12	1.6	4691	144.77	7521	4045	**CB083**	80B4	**PB083**	56C/143/145TC
	12	3.4	4689	144.69	15927	4944	**CB103**	80B4	**PB103**	56C/143/145TC
	11	3.0	5355	165.25	15927	4944	**CB103**	80B4	**PB103**	56C/143/145TC
1.5	224	11.7	380	7.81	4424	2469	**CB083**	90S4	**PB083**	56C/143/145TC
	203	12.7	419	8.62	5309	2475	**CB083**	90S4	**PB083**	56C/143/145TC
	167	11.3	510	10.49	5751	2632	**CB083**	90S4	**PB083**	56C/143/145TC
	151	11.8	563	11.59	6636	2648	**CB083**	90S4	**PB083**	56C/143/145TC
	121	10.2	701	14.43	7167	2843	**CB083**	90S4	**PB083**	56C/143/145TC
	105	9.3	807	16.60	7521	2976	**CB083**	90S4	**PB083**	56C/143/145TC
	96	8.4	891	18.32	7521	3101	**CB083**	90S4	**PB083**	56C/143/145TC
	77	6.8	1109	22.82	7521	3392	**CB083**	90S4	**PB083**	56C/143/145TC
	66	5.8	1299	26.71	7521	3614	**CB083**	90S4	**PB083**	56C/143/145TC
	55	4.9	1546	31.80	7521	3874	**CB083**	90S4	**PB083**	56C/143/145TC
	51	4.5	1677	34.49	7521	4000	**CB083**	90S4	**PB083**	56C/143/145TC
	44	3.9	1925	39.60	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	41	3.6	2088	42.95	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	39	3.4	2209	45.44	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	34	3.0	2488	51.19	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	32	2.8	2699	55.52	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	29	2.6	2914	59.96	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	27	2.4	3098	63.74	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	25	2.2	3361	69.14	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	24	2.1	3555	73.14	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	22	1.9	3926	80.76	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	22	3.9	3836	78.92	15042	4944	**CB103**	90S4	**PB103**	56C/143/145TC
	21	3.9	4066	83.66	15927	4944	**CB103**	90S4	**PB103**	56C/143/145TC
	19	1.7	4481	92.19	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	19	3.5	4487	92.31	15927	4944	**CB103**	90S4	**PB103**	56C/143/145TC
	17	1.5	4889	100.57	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	17	1.5	5118	105.29	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	17	3.1	5125	105.44	15927	4944	**CB103**	90S4	**PB103**	56C/143/145TC



MOTOVARIO™

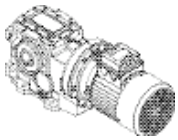
B Gearmotor Ratings – Motor Speed 1750 RPM

Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
1.5	15	1.3	5651	116.25	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	15	2.7	5854	120.42	15927	4944	**CB103**	90S4	**PB103**	56C/143/145TC
	15	2.9	5580	114.80	15927	4944	**CB103**	90S4	**PB103**	56C/143/145TC
	14	1.2	6162	126.76	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	13	2.5	6459	132.87	15927	4944	**CB103**	90S4	**PB103**	56C/143/145TC
	12	1.1	7037	144.77	7521	4045	**CB083**	90S4	**PB083**	56C/143/145TC
	12	2.3	7033	144.69	15927	4944	**CB103**	90S4	**PB103**	56C/143/145TC
	11	2.0	8032	165.25	15927	4944	**CB103**	90S4	**PB103**	56C/143/145TC
2.0	224	8.7	506	7.81	4424	2469	**CB083**	90L4	**PB083**	143/145TC
	203	9.5	559	8.62	5309	2475	**CB083**	90L4	**PB083**	143/145TC
	167	8.5	680	10.49	5751	2632	**CB083**	90L4	**PB083**	143/145TC
	151	8.8	751	11.59	6636	2648	**CB083**	90L4	**PB083**	143/145TC
	121	7.7	935	14.43	7167	2843	**CB083**	90L4	**PB083**	143/145TC
	105	7.0	1076	16.60	7521	2976	**CB083**	90L4	**PB083**	143/145TC
	96	6.3	1188	18.32	7521	3101	**CB083**	90L4	**PB083**	143/145TC
	77	5.1	1479	22.82	7521	3392	**CB083**	90L4	**PB083**	143/145TC
	66	4.3	1731	26.71	7521	3614	**CB083**	90L4	**PB083**	143/145TC
	59	3.9	1912	29.50	7521	3760	**CB083**	90L4	**PB083**	143/145TC
	55	3.6	2061	31.80	7521	3874	**CB083**	90L4	**PB083**	143/145TC
	51	3.4	2235	34.49	7521	4000	**CB083**	90L4	**PB083**	143/145TC
	44	2.9	2566	39.60	7521	4045	**CB083**	90L4	**PB083**	143/145TC
	41	2.7	2784	42.95	7521	4045	**CB083**	90L4	**PB083**	143/145TC
	39	2.6	2945	45.44	7521	4045	**CB083**	90L4	**PB083**	143/145TC
	34	2.3	3317	51.19	7521	4045	**CB083**	90L4	**PB083**	143/145TC
	32	2.1	3599	55.52	7521	4045	**CB083**	90L4	**PB083**	143/145TC
	30	4.0	3792	58.50	15042	4944	**CB103**	90L4	**PB103**	143/145TC
	29	1.9	3886	59.96	7521	4045	**CB083**	90L4	**PB083**	143/145TC
	27	1.8	4131	63.74	7521	4045	**CB083**	90L4	**PB083**	143/145TC
	27	3.6	4205	64.89	15042	4944	**CB103**	90L4	**PB103**	143/145TC
	26	3.4	4444	68.58	15042	4944	**CB103**	90L4	**PB103**	143/145TC
	25	1.7	4481	69.14	7521	4045	**CB083**	90L4	**PB083**	143/145TC
	24	1.6	4740	73.14	7521	4045	**CB083**	90L4	**PB083**	143/145TC
	24	3.2	4715	72.76	15042	4944	**CB103**	90L4	**PB103**	143/145TC
	22	1.4	5234	80.76	7521	4045	**CB083**	90L4	**PB083**	143/145TC
	22	2.9	5115	78.92	15042	4944	**CB103**	90L4	**PB103**	143/145TC
	21	2.9	5422	83.66	15927	4944	**CB103**	90L4	**PB103**	143/145TC
	19	1.3	5975	92.19	7521	4045	**CB083**	90L4	**PB083**	143/145TC
	19	2.7	5983	92.31	15927	4944	**CB103**	90L4	**PB103**	143/145TC
	17	1.2	6518	100.57	7521	4045	**CB083**	90L4	**PB083**	143/145TC
	17	1.1	6824	105.29	7521	4045	**CB083**	90L4	**PB083**	143/145TC
	17	2.3	6834	105.44	15927	4944	**CB103**	90L4	**PB103**	143/145TC
	15	1.0	7535	116.25	7521	4045	**CB083**	90L4	**PB083**	143/145TC
	15	2.0	7805	120.42	15927	4944	**CB103**	90L4	**PB103**	143/145TC



Gearmotor Ratings – Motor Speed 1750 RPM B

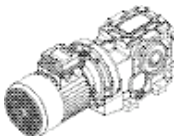
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
2.0	15	2.1	7440	114.80	15927	4944	**CB103**	90L4	**PB103**	143/145TC
	15	4.0	7751	119.60	30968	6742	**CB123**	90L4	**PB123**	143/145TC
	13	1.8	8612	132.87	15927	4944	**CB103**	90L4	**PB103**	143/145TC
	13	3.7	8423	129.96	30968	6742	**CB123**	90L4	**PB123**	143/145TC
	12	1.7	9378	144.69	15927	4944	**CB103**	90L4	**PB103**	143/145TC
	12	3.3	9361	144.43	30968	6742	**CB123**	90L4	**PB123**	143/145TC
	11	1.5	10710	165.25	15927	4944	**CB103**	90L4	**PB103**	143/145TC
	11	3.0	10385	160.23	30968	6742	**CB123**	90L4	**PB123**	143/145TC
	9.7	2.6	11692	180.40	30968	6742	**CB123**	90L4	**PB123**	143/145TC
3.0	224	5.8	759	7.81	4424	2469	**CB083**	100LA4	**PB083**	182/184TC
	203	6.3	838	8.62	5309	2475	**CB083**	100LA4	**PB083**	182/184TC
	167	5.6	1020	10.49	5751	2632	**CB083**	100LA4	**PB083**	182/184TC
	151	5.9	1126	11.59	6636	2648	**CB083**	100LA4	**PB083**	182/184TC
	121	5.1	1403	14.43	7167	2843	**CB083**	100LA4	**PB083**	182/184TC
	105	4.7	1613	16.60	7521	2976	**CB083**	100LA4	**PB083**	182/184TC
	96	4.2	1781	18.32	7521	3101	**CB083**	100LA4	**PB083**	182/184TC
	77	3.4	2218	22.82	7521	3392	**CB083**	100LA4	**PB083**	182/184TC
	66	2.9	2597	26.71	7521	3614	**CB083**	100LA4	**PB083**	182/184TC
	59	2.6	2868	29.50	7521	3760	**CB083**	100LA4	**PB083**	182/184TC
	55	2.4	3091	31.80	7521	3874	**CB083**	100LA4	**PB083**	182/184TC
	51	2.2	3353	34.49	7521	4000	**CB083**	100LA4	**PB083**	182/184TC
	44	2.0	3849	39.60	7521	4045	**CB083**	100LA4	**PB083**	182/184TC
	43	3.8	3998	41.12	15042	4944	**CB103**	100LA4	**PB103**	182/184TC
	41	1.8	4176	42.95	7521	4045	**CB083**	100LA4	**PB083**	182/184TC
	39	1.7	4417	45.44	7521	4045	**CB083**	100LA4	**PB083**	182/184TC
	39	3.5	4337	44.61	15042	4944	**CB103**	100LA4	**PB103**	182/184TC
	37	3.3	4597	47.28	15042	4944	**CB103**	100LA4	**PB103**	182/184TC
	35	3.1	4884	50.24	15042	4944	**CB103**	100LA4	**PB103**	182/184TC
	34	1.5	4976	51.19	7521	4045	**CB083**	100LA4	**PB083**	182/184TC
	33	2.9	5155	53.02	15042	4944	**CB103**	100LA4	**PB103**	182/184TC
	32	1.4	5398	55.52	7521	4045	**CB083**	100LA4	**PB083**	182/184TC
	30	2.6	5688	58.50	15042	4944	**CB103**	100LA4	**PB103**	182/184TC
	29	1.3	5829	59.96	7521	4045	**CB083**	100LA4	**PB083**	182/184TC
	27	1.2	6197	63.74	7521	4045	**CB083**	100LA4	**PB083**	182/184TC
	27	2.4	6308	64.89	15042	4944	**CB103**	100LA4	**PB103**	182/184TC
	26	2.3	6667	68.58	15042	4944	**CB103**	100LA4	**PB103**	182/184TC
	25	1.1	6722	69.14	7521	4045	**CB083**	100LA4	**PB083**	182/184TC
	24	1.1	7111	73.14	7521	4045	**CB083**	100LA4	**PB083**	182/184TC
	24	2.1	7073	72.76	15042	4944	**CB103**	100LA4	**PB103**	182/184TC
	22	2.0	7673	78.92	15042	4944	**CB103**	100LA4	**PB103**	182/184TC
	22	4.0	7781	80.04	30968	6742	**CB123**	100LA4	**PB123**	182/184TC
	21	2.0	8133	83.66	15927	4944	**CB103**	100LA4	**PB103**	182/184TC
	19	1.8	8974	92.31	15927	4944	**CB103**	100LA4	**PB103**	182/184TC
	19	3.5	8736	89.87	30968	6742	**CB123**	100LA4	**PB123**	182/184TC



MOTOVARIO™

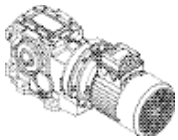
B Gearmotor Ratings – Motor Speed 1750 RPM

Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
3.0	18	3.2	9692	99.70	30968	6742	**CB123**	100LA4	**PB123**	182/184TC
	17	1.6	10251	105.44	15927	4944	**CB103**	100LA4	**PB103**	182/184TC
	16	3.0	10369	106.65	30968	6742	**CB123**	100LA4	**PB123**	182/184TC
	15	1.4	11160	114.80	15927	4944	**CB103**	100LA4	**PB103**	182/184TC
	15	2.7	11627	119.60	30968	6742	**CB123**	100LA4	**PB123**	182/184TC
	15	1.4	11707	120.42	15927	4944	**CB103**	100LA4	**PB103**	182/184TC
	14	3.7	12115	124.62	44240	9165	**CB143**	100LA4	**PB143**	182/184TC
	13	1.2	12917	132.87	15927	4944	**CB103**	100LA4	**PB103**	182/184TC
	13	2.5	12635	129.96	30968	6742	**CB123**	100LA4	**PB123**	182/184TC
	13	3.3	13264	136.44	44240	9566	**CB143**	100LA4	**PB143**	182/184TC
	12	1.1	14067	144.69	15927	4944	**CB103**	100LA4	**PB103**	182/184TC
	12	2.2	14041	144.43	30968	6742	**CB123**	100LA4	**PB123**	182/184TC
	12	3.0	14543	149.59	44240	9985	**CB143**	100LA4	**PB143**	182/184TC
	11	1.0	16065	165.25	15927	4944	**CB103**	100LA4	**PB103**	182/184TC
	11	2.0	15577	160.23	30968	6742	**CB123**	100LA4	**PB123**	182/184TC
	11	2.7	16190	166.53	44240	10113	**CB143**	100LA4	**PB143**	182/184TC
	9.7	1.8	17538	180.40	30968	6742	**CB123**	100LA4	**PB123**	182/184TC
	9.3	2.4	18203	187.24	44240	10113	**CB143**	100LA4	**PB143**	182/184TC
5.0	224	3.5	1265	7.81	4424	2469	**CB083**	112M4	**PB083**	182/184TC
	203	3.8	1397	8.62	5309	2475	**CB083**	112M4	**PB083**	182/184TC
	167	3.4	1700	10.49	5751	2632	**CB083**	112M4	**PB083**	182/184TC
	151	3.5	1877	11.59	6636	2648	**CB083**	112M4	**PB083**	182/184TC
	121	3.1	2338	14.43	7167	2843	**CB083**	112M4	**PB083**	182/184TC
	105	2.8	2689	16.60	7521	2976	**CB083**	112M4	**PB083**	182/184TC
	96	2.5	2969	18.32	7521	3101	**CB083**	112M4	**PB083**	182/184TC
	77	2.0	3697	22.82	7521	3392	**CB083**	112M4	**PB083**	182/184TC
	74	3.2	3840	23.70	12387	4198	**CB103**	112M4	**PB103**	182/184TC
	66	1.7	4328	26.71	7521	3614	**CB083**	112M4	**PB083**	182/184TC
	66	3.1	4296	26.51	13272	4326	**CB103**	112M4	**PB103**	182/184TC
	59	1.6	4779	29.50	7521	3760	**CB083**	112M4	**PB083**	182/184TC
	57	2.9	4951	30.55	14157	4515	**CB103**	112M4	**PB103**	182/184TC
	55	1.5	5152	31.80	7521	3874	**CB083**	112M4	**PB083**	182/184TC
	53	2.8	5358	33.07	15042	4597	**CB103**	112M4	**PB103**	182/184TC
	51	1.3	5589	34.49	7521	4000	**CB083**	112M4	**PB083**	182/184TC
	49	2.6	5812	35.87	15042	4752	**CB103**	112M4	**PB103**	182/184TC
	44	1.2	6416	39.60	7521	4045	**CB083**	112M4	**PB083**	182/184TC
	43	2.3	6663	41.12	15042	4944	**CB103**	112M4	**PB103**	182/184TC
	43	3.8	6567	40.53	24775	5752	**CB123**	112M4	**PB123**	182/184TC
	41	1.1	6959	42.95	7521	4045	**CB083**	112M4	**PB083**	182/184TC
	39	1.0	7362	45.44	7521	4045	**CB083**	112M4	**PB083**	182/184TC
	39	2.1	7228	44.61	15042	4944	**CB103**	112M4	**PB103**	182/184TC
	39	3.6	7274	44.89	26544	5841	**CB123**	112M4	**PB123**	182/184TC
	37	2.0	7661	47.28	15042	4944	**CB103**	112M4	**PB103**	182/184TC



Gearmotor Ratings – Motor Speed 1750 RPM B

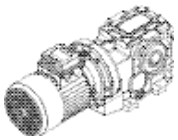
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
5.0	35	1.8	8140	50.24	15042	4944	**CB103**	112M4	**PB103**	182/184TC
	35	3.5	8069	49.80	28314	5946	**CB123**	112M4	**PB123**	182/184TC
	33	1.8	8591	53.02	15042	4944	**CB103**	112M4	**PB103**	182/184TC
	32	3.2	8798	54.30	28314	6214	**CB123**	112M4	**PB123**	182/184TC
	30	1.6	9479	58.50	15042	4944	**CB103**	112M4	**PB103**	182/184TC
	29	2.9	9617	59.36	28314	6498	**CB123**	112M4	**PB123**	182/184TC
	28	2.9	10141	62.59	29199	6568	**CB123**	112M4	**PB123**	182/184TC
	27	1.4	10513	64.89	15042	4944	**CB103**	112M4	**PB103**	182/184TC
	26	1.4	11111	68.58	15042	4944	**CB103**	112M4	**PB103**	182/184TC
	25	2.6	11250	69.43	29199	6742	**CB123**	112M4	**PB123**	182/184TC
	24	1.3	11789	72.76	15042	4944	**CB103**	112M4	**PB103**	182/184TC
	24	2.6	12058	74.42	30968	6742	**CB123**	112M4	**PB123**	182/184TC
	23	3.5	12495	77.12	44240	7232	**CB143**	112M4	**PB143**	182/184TC
	22	1.2	12788	78.92	15042	4944	**CB103**	112M4	**PB103**	182/184TC
	22	2.4	12969	80.04	30968	6742	**CB123**	112M4	**PB123**	182/184TC
	21	1.2	13555	83.66	15927	4944	**CB103**	112M4	**PB103**	182/184TC
	20	3.2	13861	85.54	44240	7624	**CB143**	112M4	**PB143**	-
	19	1.1	14956	92.31	15927	4944	**CB103**	112M4	**PB103**	182/184TC
	19	2.1	14561	89.87	30968	6742	**CB123**	112M4	**PB123**	182/184TC
	19	2.9	15251	94.13	44240	7998	**CB143**	112M4	**PB143**	182/184TC
	18	1.9	16154	99.70	30968	6742	**CB123**	112M4	**PB123**	182/184TC
	17	2.6	17147	105.83	44240	8472	**CB143**	112M4	**PB143**	182/184TC
	16	1.8	17281	106.65	30968	6742	**CB123**	112M4	**PB123**	182/184TC
	16	2.4	18137	111.94	44240	8706	**CB143**	112M4	**PB143**	182/184TC
	15	1.6	19378	119.60	30968	6742	**CB123**	112M4	**PB123**	182/184TC
	14	2.2	20191	124.62	44240	9165	**CB143**	112M4	**PB143**	182/184TC
	14	3.5	20072	123.88	70785	14608	-	-	**PB153**	182/184TC
	13	1.5	21058	129.96	30968	6742	**CB123**	112M4	**PB123**	182/184TC
	13	2.0	22107	136.44	44240	9566	**CB143**	112M4	**PB143**	182/184TC
	13	3.3	21755	134.27	70785	14608	-	-	**PB153**	182/184TC
	12	1.3	23401	144.43	30968	6742	**CB123**	112M4	**PB123**	182/184TC
	12	2.9	24185	149.26	70785	14608	-	-	**PB153**	182/184TC
	12	1.8	24238	149.59	44240	9985	**CB143**	112M4	**PB143**	182/184TC
	11	1.2	25961	160.23	30968	6742	**CB123**	112M4	**PB123**	182/184TC
	11	1.6	26983	166.53	44240	10113	**CB143**	112M4	**PB143**	182/184TC
	11	2.6	26802	165.42	70785	14608	-	-	**PB153**	182/184TC
	9.7	1.1	29231	180.40	30968	6742	**CB123**	112M4	**PB123**	182/184TC
	9.3	1.5	30338	187.24	44240	10113	**CB143**	112M4	**PB143**	182/184TC
7.5	224	2.3	1898	7.81	4424	2469	**CB083**	132S4	**PB083**	213/215TC
	215	3.6	1975	8.13	7078	3067	**CB103**	132S4	**PB103**	213/215TC
	203	2.5	2096	8.62	5309	2475	**CB083**	132S4	**PB083**	213/215TC
	195	3.7	2179	8.97	7963	3121	**CB103**	132S4	**PB103**	213/215TC
	167	2.3	2550	10.49	5751	2632	**CB083**	132S4	**PB083**	213/215TC



MOTOVARIO™

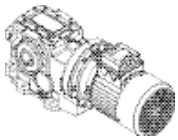
B Gearmotor Ratings – Motor Speed 1750 RPM

Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
7.5	160	3.3	2654	10.92	8848	3305	**CB103**	132S4	**PB103**	213/215TC
	151	2.4	2816	11.59	6636	2648	**CB083**	132S4	**PB083**	213/215TC
	145	3.0	2929	12.05	8848	3436	**CB103**	132S4	**PB103**	213/215TC
	121	2.0	3507	14.43	7167	2843	**CB083**	132S4	**PB083**	213/215TC
	117	2.9	3642	14.99	10618	3611	**CB103**	132S4	**PB103**	213/215TC
	105	1.9	4033	16.60	7521	2976	**CB083**	132S4	**PB083**	213/215TC
	101	3.0	4197	17.27	12387	3692	**CB103**	132S4	**PB103**	213/215TC
	96	1.7	4453	18.32	7521	3101	**CB083**	132S4	**PB083**	213/215TC
	92	2.7	4631	19.06	12387	3844	**CB103**	132S4	**PB103**	213/215TC
	77	1.4	5546	22.82	7521	3392	**CB083**	132S4	**PB083**	213/215TC
	74	2.2	5760	23.70	12387	4198	**CB103**	132S4	**PB103**	213/215TC
	68	3.9	6292	25.89	24775	4563	**CB123**	132S4	**PB123**	213/215TC
	66	1.2	6493	26.71	7521	3614	**CB083**	132S4	**PB083**	213/215TC
	66	2.1	6444	26.51	13272	4326	**CB103**	132S4	**PB103**	213/215TC
	64	3.7	6686	27.51	24775	4714	**CB123**	132S4	**PB123**	213/215TC
	59	1.0	7169	29.50	7521	3760	**CB083**	132S4	**PB083**	213/215TC
	57	1.9	7426	30.55	14157	4515	**CB103**	132S4	**PB103**	213/215TC
	57	3.3	7484	30.79	24775	5002	**CB123**	132S4	**PB123**	213/215TC
	56	3.3	7598	31.26	24775	5042	**CB123**	132S4	**PB123**	213/215TC
	53	1.9	8037	33.07	15042	4597	**CB103**	132S4	**PB103**	213/215TC
	50	2.9	8430	34.68	24775	5318	**CB123**	132S4	**PB123**	213/215TC
	49	1.7	8718	35.87	15042	4752	**CB103**	132S4	**PB103**	213/215TC
	43	1.5	9995	41.12	15042	4944	**CB103**	132S4	**PB103**	213/215TC
	43	2.5	9851	40.53	24775	5752	**CB123**	132S4	**PB123**	213/215TC
	39	1.4	10842	44.61	15042	4944	**CB103**	132S4	**PB103**	213/215TC
	39	2.4	10910	44.89	26544	5841	**CB123**	132S4	**PB123**	213/215TC
	37	1.3	11492	47.28	15042	4944	**CB103**	132S4	**PB103**	213/215TC
	36	3.8	11751	48.35	44240	5624	**CB143**	132S4	**PB143**	213/215TC
	35	1.2	12211	50.24	15042	4944	**CB103**	132S4	**PB103**	213/215TC
	35	2.3	12104	49.80	28314	5946	**CB123**	132S4	**PB123**	213/215TC
	33	1.2	12886	53.02	15042	4944	**CB103**	132S4	**PB103**	213/215TC
	33	3.4	12920	53.16	44240	5931	**CB143**	132S4	**PB143**	213/215TC
	32	2.1	13197	54.30	28314	6214	**CB123**	132S4	**PB123**	213/215TC
	32	3.3	13277	54.63	44240	6021	**CB143**	132S4	**PB143**	213/215TC
	30	1.1	14219	58.50	15042	4944	**CB103**	132S4	**PB103**	213/215TC
	30	3.1	14343	59.02	44240	6280	**CB143**	132S4	**PB143**	213/215TC
	29	2.0	14426	59.36	28314	6498	**CB123**	132S4	**PB123**	213/215TC
	28	1.9	15211	62.59	29199	6568	**CB123**	132S4	**PB123**	213/215TC
	27	2.8	15769	64.88	44240	6608	**CB143**	132S4	**PB143**	213/215TC
	25	1.7	16875	69.43	29199	6742	**CB123**	132S4	**PB123**	213/215TC
	25	2.6	17119	70.43	44240	6900	**CB143**	132S4	**PB143**	213/215TC
	24	1.7	18086	74.42	30968	6742	**CB123**	132S4	**PB123**	213/215TC
	23	2.4	18743	77.12	44240	7232	**CB143**	132S4	**PB143**	213/215TC
	23	3.8	18768	77.22	70785	13198	-	-	**PB153**	213/215TC
	22	1.6	19453	80.04	30968	6742	**CB123**	132S4	**PB123**	213/215TC



Gearmotor Ratings – Motor Speed 1750 RPM B

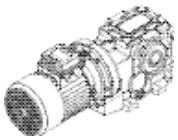
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
7.5	21	3.5	20388	83.89	70785	13637	-	-	**PB153**	213/215TC
	20	2.1	20791	85.54	44240	7624	**CB143**	132S4	**PB143**	213/215TC
	20	3.3	21303	87.65	70785	13874	-	-	**PB153**	213/215TC
	19	1.4	21841	89.87	30968	6742	**CB123**	132S4	**PB123**	213/215TC
	19	1.9	22877	94.13	44240	7998	**CB143**	132S4	**PB143**	213/215TC
	19	3.1	22614	93.05	70785	14203	-	-	**PB153**	213/215TC
	18	1.3	24231	99.70	30968	6742	**CB123**	132S4	**PB123**	213/215TC
	17	1.7	25721	105.83	44240	8472	**CB143**	132S4	**PB143**	213/215TC
	17	2.8	25062	103.12	70785	14608	-	-	**PB153**	213/215TC
	16	1.2	25921	106.65	30968	6742	**CB123**	132S4	**PB123**	213/215TC
	16	1.6	27206	111.94	44240	8706	**CB143**	132S4	**PB143**	213/215TC
	15	1.1	29067	119.60	30968	6742	**CB123**	132S4	**PB123**	213/215TC
	14	1.5	30287	124.62	44240	9165	**CB143**	132S4	**PB143**	213/215TC
	14	2.4	30107	123.88	70785	14608	-	-	**PB153**	213/215TC
	13	1.3	33160	136.44	44240	9566	**CB143**	132S4	**PB143**	213/215TC
	13	2.2	32632	134.27	70785	14608	-	-	**PB153**	213/215TC
	12	1.2	36357	149.59	44240	9985	**CB143**	132S4	**PB143**	213/215TC
	12	2.0	36277	149.26	70785	14608	-	-	**PB153**	213/215TC
	11	1.1	40474	166.53	44240	10113	**CB143**	132S4	**PB143**	213/215TC
	11	1.8	40203	165.42	70785	14608	-	-	**PB153**	213/215TC
10	224	1.7	2531	7.81	4424	2469	**CB083**	132L4	**PB083**	213/215TC
	215	2.7	2634	8.13	7078	3067	**CB103**	132L4	**PB103**	213/215TC
	203	1.9	2794	8.62	5309	2475	**CB083**	132L4	**PB083**	213/215TC
	195	2.7	2906	8.97	7963	3121	**CB103**	132L4	**PB103**	213/215TC
	167	1.7	3401	10.49	5751	2632	**CB083**	132L4	**PB083**	213/215TC
	160	2.5	3539	10.92	8848	3305	**CB103**	132L4	**PB103**	213/215TC
	151	1.8	3755	11.59	6636	2648	**CB083**	132L4	**PB083**	213/215TC
	145	2.3	3905	12.05	8848	3436	**CB103**	132L4	**PB103**	213/215TC
	121	1.5	4676	14.43	7167	2843	**CB083**	132L4	**PB083**	213/215TC
	117	2.2	4856	14.99	10618	3611	**CB103**	132L4	**PB103**	213/215TC
	114	3.7	4985	15.38	18581	4109	**CB123**	132L4	**PB123**	213/215TC
	105	1.4	5378	16.60	7521	2976	**CB083**	132L4	**PB083**	213/215TC
	101	2.2	5596	17.27	12387	3692	**CB103**	132L4	**PB103**	213/215TC
	96	1.3	5938	18.32	7521	3101	**CB083**	132L4	**PB083**	213/215TC
	94	3.2	6020	18.58	19466	4409	**CB123**	132L4	**PB123**	213/215TC
	92	2.0	6175	19.06	12387	3844	**CB103**	132L4	**PB103**	213/215TC
	85	3.3	6678	20.61	22120	4332	**CB123**	132L4	**PB123**	213/215TC
	77	1.0	7394	22.82	7521	3392	**CB083**	132L4	**PB083**	213/215TC
	77	3.4	7382	22.78	24775	4255	**CB123**	132L4	**PB123**	213/215TC
	74	1.6	7680	23.70	12387	4198	**CB103**	132L4	**PB103**	213/215TC
	68	3.0	8389	25.89	24775	4563	**CB123**	132L4	**PB123**	213/215TC
	66	1.5	8592	26.51	13272	4326	**CB103**	132L4	**PB103**	213/215TC
	64	2.8	8915	27.51	24775	4714	**CB123**	132L4	**PB123**	213/215TC
	57	1.4	9901	30.55	14157	4515	**CB103**	132L4	**PB103**	213/215TC
	57	2.5	9979	30.79	24775	5002	**CB123**	132L4	**PB123**	213/215TC



MOTOVARIO™

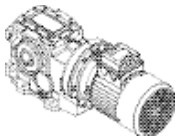
B Gearmotor Ratings – Motor Speed 1750 RPM

Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
10	56	2.4	10131	31.26	24775	5042	**CB123**	132L4	**PB123**	213/215TC
	53	1.4	10716	33.07	15042	4597	**CB103**	132L4	**PB103**	213/215TC
	53	3.9	10697	33.01	41586	4723	**CB143**	132L4	**PB143**	213/215TC
	50	2.2	11240	34.68	24775	5318	**CB123**	132L4	**PB123**	213/215TC
	49	1.3	11624	35.87	15042	4752	**CB103**	132L4	**PB103**	213/215TC
	48	3.6	11884	36.67	42471	4943	**CB143**	132L4	**PB143**	213/215TC
	43	1.1	13326	41.12	15042	4944	**CB103**	132L4	**PB103**	213/215TC
	43	1.9	13134	40.53	24775	5752	**CB123**	132L4	**PB123**	213/215TC
	43	3.3	13056	40.29	42471	5221	**CB143**	132L4	**PB143**	213/215TC
	40	3.0	14311	44.16	42471	5501	**CB143**	132L4	**PB143**	213/215TC
	39	1.0	14456	44.61	15042	4944	**CB103**	132L4	**PB103**	213/215TC
	39	1.8	14547	44.89	26544	5841	**CB123**	132L4	**PB123**	213/215TC
	36	2.8	15669	48.35	44240	5624	**CB143**	132L4	**PB143**	213/215TC
	35	1.8	16139	49.80	28314	5946	**CB123**	132L4	**PB123**	213/215TC
	33	2.6	17226	53.16	44240	5931	**CB143**	132L4	**PB143**	213/215TC
	32	1.6	17596	54.30	28314	6214	**CB123**	132L4	**PB123**	213/215TC
	32	2.5	17702	54.63	44240	6021	**CB143**	132L4	**PB143**	213/215TC
	31	3.8	18560	57.27	70785	11712	-	-	**PB153**	213/215TC
	30	2.3	19124	59.02	44240	6280	**CB143**	132L4	**PB143**	213/215TC
	29	1.5	19235	59.36	28314	6498	**CB123**	132L4	**PB123**	213/215TC
	29	3.6	19743	60.92	70785	12007	-	-	**PB153**	213/215TC
	28	1.4	20281	62.59	29199	6568	**CB123**	132L4	**PB123**	213/215TC
	28	3.4	20568	63.47	70785	12206	-	-	**PB153**	213/215TC
	27	2.1	21026	64.88	44240	6608	**CB143**	132L4	**PB143**	213/215TC
	25	1.3	22500	69.43	29199	6742	**CB123**	132L4	**PB123**	213/215TC
	25	1.9	22825	70.43	44240	6900	**CB143**	132L4	**PB143**	213/215TC
	25	3.1	23055	71.15	70785	12776	-	-	**PB153**	213/215TC
	24	1.3	24115	74.42	30968	6742	**CB123**	132L4	**PB123**	213/215TC
	23	1.8	24990	77.12	44240	7232	**CB143**	132L4	**PB143**	213/215TC
	23	2.8	25024	77.22	70785	13198	-	-	**PB153**	213/215TC
	22	1.2	25937	80.04	30968	6742	**CB123**	132L4	**PB123**	213/215TC
	21	2.6	27184	83.89	70785	13637	-	-	**PB153**	213/215TC
	20	1.6	27721	85.54	44240	7624	**CB143**	132L4	**PB143**	213/215TC
	20	2.5	28404	87.65	70785	13874	-	-	**PB153**	213/215TC
	19	1.1	29122	89.87	30968	6742	**CB123**	132L4	**PB123**	213/215TC
	19	1.5	30502	94.13	44240	7998	**CB143**	132L4	**PB143**	213/215TC
	19	2.3	30152	93.05	70785	14203	-	-	**PB153**	213/215TC
	17	1.3	34295	105.83	44240	8472	**CB143**	132L4	**PB143**	213/215TC
	17	2.1	33415	103.12	70785	14608	-	-	**PB153**	213/215TC
	16	1.2	36274	111.94	44240	8706	**CB143**	132L4	**PB143**	213/215TC
	14	1.1	40382	124.62	44240	9165	**CB143**	132L4	**PB143**	213/215TC
	14	1.8	40143	123.88	70785	14608	-	-	**PB153**	213/215TC
	13	1.0	44214	136.44	44240	9566	**CB143**	132L4	**PB143**	213/215TC
	13	1.6	43510	134.27	70785	14608	-	-	**PB153**	213/215TC
	12	1.5	48369	149.26	70785	14608	-	-	**PB153**	213/215TC
	11	1.3	53604	165.42	70785	14608	-	-	**PB153**	213/215TC



Gearmotor Ratings – Motor Speed 1750 RPM B

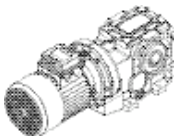
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
15	220	3.4	3872	7.97	13272	3504	-	-	**PB123**	254/256TC
	215	1.8	3950	8.13	7078	3067	-	-	**PB103**	254/256TC
	195	1.8	4359	8.97	7963	3121	-	-	**PB103**	254/256TC
	182	3.4	4676	9.62	15927	3518	-	-	**PB123**	254/256TC
	169	3.5	5023	10.33	17696	3440	-	-	**PB123**	254/256TC
	160	1.7	5308	10.92	8848	3305	-	-	**PB103**	254/256TC
	145	1.5	5857	12.05	8848	3436	-	-	**PB103**	254/256TC
	140	2.9	6066	12.48	17696	3794	-	-	**PB123**	254/256TC
	126	2.8	6730	13.84	18581	3895	-	-	**PB123**	254/256TC
	121	3.9	7041	14.49	27429	3987	-	-	**PB143**	254/256TC
	117	1.5	7284	14.99	10618	3611	-	-	**PB103**	254/256TC
	114	2.5	7477	15.38	18581	4109	-	-	**PB123**	254/256TC
	103	3.4	8283	17.04	28314	4264	-	-	**PB143**	254/256TC
	101	1.5	8395	17.27	12387	3692	-	-	**PB103**	254/256TC
	94	2.2	9029	18.58	19466	4409	-	-	**PB123**	254/256TC
	94	3.5	9069	18.66	31853	4149	-	-	**PB143**	254/256TC
	92	1.3	9263	19.06	12387	3844	-	-	**PB103**	254/256TC
	85	2.2	10017	20.61	22120	4332	-	-	**PB123**	254/256TC
	83	3.5	10206	21.00	35392	4107	-	-	**PB143**	254/256TC
	77	2.2	11073	22.78	24775	4255	-	-	**PB123**	254/256TC
	77	3.5	11069	22.77	38932	3983	-	-	**PB143**	254/256TC
	74	1.1	11519	23.70	12387	4198	-	-	**PB103**	254/256TC
	68	2.0	12584	25.89	24775	4563	-	-	**PB123**	254/256TC
	68	3.3	12457	25.63	40701	4121	-	-	**PB143**	254/256TC
	66	1.0	12888	26.51	13272	4326	-	-	**PB103**	254/256TC
	64	1.9	13372	27.51	24775	4714	-	-	**PB123**	254/256TC
	64	3.1	13339	27.44	40701	4300	-	-	**PB143**	254/256TC
	58	2.8	14605	30.05	41586	4463	-	-	**PB143**	254/256TC
	57	1.7	14968	30.79	24775	5002	-	-	**PB123**	254/256TC
	56	1.6	15197	31.26	24775	5042	-	-	**PB123**	254/256TC
	53	2.6	16045	33.01	41586	4723	-	-	**PB143**	254/256TC
	50	1.5	16859	34.68	24775	5318	-	-	**PB123**	254/256TC
	48	2.4	17826	36.67	42471	4943	-	-	**PB143**	254/256TC
	45	3.8	18864	38.81	70785	9982	-	-	**PB153**	254/256TC
	43	1.3	19701	40.53	24775	5752	-	-	**PB123**	254/256TC
	43	2.2	19584	40.29	42471	5221	-	-	**PB143**	254/256TC
	41	3.4	20559	42.30	70785	10346	-	-	**PB153**	254/256TC
	40	2.0	21466	44.16	42471	5501	-	-	**PB143**	254/256TC
	39	1.2	21821	44.89	26544	5841	-	-	**PB123**	254/256TC
	37	3.1	23105	47.53	70785	10856	-	-	**PB153**	254/256TC
	36	1.9	23503	48.35	44240	5624	-	-	**PB143**	254/256TC
	35	1.2	24208	49.80	28314	5946	-	-	**PB123**	254/256TC
	35	2.9	24577	50.56	70785	11134	-	-	**PB153**	254/256TC
	33	1.7	25839	53.16	44240	5931	-	-	**PB143**	254/256TC
	32	1.1	26394	54.30	28314	6214	-	-	**PB123**	254/256TC



MOTOVARIO™

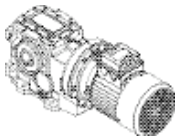
B Gearmotor Ratings – Motor Speed 1750 RPM

Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
15	32	1.7	26553	54.63	44240	6021	-	-	**PB143**	254/256TC
	32	2.7	26560	54.64	70785	11491	-	-	**PB153**	254/256TC
	31	2.5	27839	57.27	70785	11712	-	-	**PB153**	254/256TC
	30	1.5	28687	59.02	44240	6280	-	-	**PB143**	254/256TC
	29	2.4	29614	60.92	70785	12007	-	-	**PB153**	254/256TC
	28	2.3	30852	63.47	70785	12206	-	-	**PB153**	254/256TC
	27	1.4	31538	64.88	44240	6608	-	-	**PB143**	254/256TC
	25	1.3	34237	70.43	44240	6900	-	-	**PB143**	254/256TC
	25	2.0	34583	71.15	70785	12776	-	-	**PB153**	254/256TC
	23	1.2	37485	77.12	44240	7232	-	-	**PB143**	254/256TC
	23	1.9	37536	77.22	70785	13198	-	-	**PB153**	254/256TC
	21	1.7	40776	83.89	70785	13637	-	-	**PB153**	254/256TC
	20	1.1	41582	85.54	44240	7624	-	-	**PB143**	254/256TC
	20	1.7	42606	87.65	70785	13874	-	-	**PB153**	254/256TC
	19	1.6	45228	93.05	70785	14203	-	-	**PB153**	254/256TC
	17	1.4	50123	103.12	70785	14608	-	-	**PB153**	254/256TC
	14	1.2	60215	123.88	70785	14608	-	-	**PB153**	254/256TC
	13	1.1	65264	134.27	70785	14608	-	-	**PB153**	254/256TC
20	220	2.6	5163	7.97	13272	3504	-	-	**PB123**	254/256TC
	215	1.3	5267	8.13	7078	3067	-	-	**PB103**	254/256TC
	195	1.4	5812	8.97	7963	3121	-	-	**PB103**	254/256TC
	182	2.6	6235	9.62	15927	3518	-	-	**PB123**	254/256TC
	169	2.6	6698	10.33	17696	3440	-	-	**PB123**	254/256TC
	160	1.3	7078	10.92	8848	3305	-	-	**PB103**	254/256TC
	147	3.6	7692	11.87	27429	3574	-	-	**PB143**	254/256TC
	145	1.1	7810	12.05	8848	3436	-	-	**PB103**	254/256TC
	140	2.2	8088	12.48	17696	3794	-	-	**PB123**	254/256TC
	126	2.1	8973	13.84	18581	3895	-	-	**PB123**	254/256TC
	121	2.9	9388	14.49	27429	3987	-	-	**PB143**	254/256TC
	117	1.1	9712	14.99	10618	3611	-	-	**PB103**	254/256TC
	114	1.9	9969	15.38	18581	4109	-	-	**PB123**	254/256TC
	103	2.6	11044	17.04	28314	4264	-	-	**PB143**	254/256TC
	101	1.1	11193	17.27	12387	3692	-	-	**PB103**	254/256TC
	94	1.6	12039	18.58	19466	4409	-	-	**PB123**	254/256TC
	94	2.6	12092	18.66	31853	4149	-	-	**PB143**	254/256TC
	92	1.0	12350	19.06	12387	3844	-	-	**PB103**	254/256TC
	85	1.7	13356	20.61	22120	4332	-	-	**PB123**	254/256TC
	83	2.6	13608	21.00	35392	4107	-	-	**PB143**	254/256TC
	77	1.7	14764	22.78	24775	4255	-	-	**PB123**	254/256TC
	77	2.6	14759	22.77	38932	3983	-	-	**PB143**	254/256TC
	73	3.8	15463	23.86	59282	8540	-	-	**PB153**	254/256TC
	68	1.5	16779	25.89	24775	4563	-	-	**PB123**	254/256TC
	68	2.5	16610	25.63	40701	4121	-	-	**PB143**	254/256TC



Gearmotor Ratings – Motor Speed 1750 RPM B

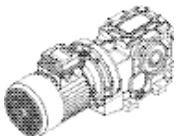
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
20	64	1.4	17830	27.51	24775	4714	-	-	**PB123**	254/256TC
	64	2.3	17786	27.44	40701	4300	-	-	**PB143**	254/256TC
	62	3.9	18297	28.23	70785	8725	-	-	**PB153**	254/256TC
	58	2.1	19473	30.05	41586	4463	-	-	**PB143**	254/256TC
	58	3.6	19669	30.35	70785	8999	-	-	**PB153**	254/256TC
	57	1.2	19957	30.79	24775	5002	-	-	**PB123**	254/256TC
	56	1.2	20262	31.26	24775	5042	-	-	**PB123**	254/256TC
	53	1.9	21394	33.01	41586	4723	-	-	**PB143**	254/256TC
	52	3.2	21798	33.63	70785	9401	-	-	**PB153**	254/256TC
	50	1.1	22479	34.68	24775	5318	-	-	**PB123**	254/256TC
	50	3.1	22695	35.02	70785	9562	-	-	**PB153**	254/256TC
	48	1.8	23768	36.67	42471	4943	-	-	**PB143**	254/256TC
	45	2.8	25151	38.81	70785	9982	-	-	**PB153**	254/256TC
	43	1.6	26112	40.29	42471	5221	-	-	**PB143**	254/256TC
	41	2.6	27412	42.30	70785	10346	-	-	**PB153**	254/256TC
	40	1.5	28622	44.16	42471	5501	-	-	**PB143**	254/256TC
	37	2.3	30806	47.53	70785	10856	-	-	**PB153**	254/256TC
	36	1.4	31337	48.35	44240	5624	-	-	**PB143**	254/256TC
	35	2.2	32770	50.56	70785	11134	-	-	**PB153**	254/256TC
	33	1.3	34452	53.16	44240	5931	-	-	**PB143**	254/256TC
	32	1.2	35404	54.63	44240	6021	-	-	**PB143**	254/256TC
	32	2.0	35413	54.64	70785	11491	-	-	**PB153**	254/256TC
	31	1.9	37119	57.27	70785	11712	-	-	**PB153**	254/256TC
	30	1.2	38249	59.02	44240	6280	-	-	**PB143**	254/256TC
	29	1.8	39485	60.92	70785	12007	-	-	**PB153**	254/256TC
	28	1.7	41136	63.47	70785	12206	-	-	**PB153**	254/256TC
	27	1.1	42051	64.88	44240	6608	-	-	**PB143**	254/256TC
	25	1.5	46111	71.15	70785	12776	-	-	**PB153**	254/256TC
	23	1.4	50049	77.22	70785	13198	-	-	**PB153**	254/256TC
	21	1.3	54368	83.89	70785	13637	-	-	**PB153**	254/256TC
	20	1.2	56808	87.65	70785	13874	-	-	**PB153**	254/256TC
	19	1.2	60304	93.05	70785	14203	-	-	**PB153**	254/256TC
	17	1.1	66831	103.12	70785	14608	-	-	**PB153**	254/256TC
25	220	2.1	6453	7.97	13272	3504	-	-	**PB123**	284/286TC
	182	2.0	7793	9.62	15927	3518	-	-	**PB123**	284/286TC
	169	2.1	8372	10.33	17696	3440	-	-	**PB123**	284/286TC
	161	3.0	8781	10.84	26544	3476	-	-	**PB143**	284/286TC
	147	2.9	9614	11.87	27429	3574	-	-	**PB143**	284/286TC
	140	1.8	10110	12.48	17696	3794	-	-	**PB123**	284/286TC
	126	1.7	11216	13.84	18581	3895	-	-	**PB123**	284/286TC
	121	2.3	11735	14.49	27429	3987	-	-	**PB143**	284/286TC
	114	1.5	12462	15.38	18581	4109	-	-	**PB123**	284/286TC
	114	3.5	12476	15.40	44240	7654	-	-	**PB153**	284/286TC



MOTOVARIO™

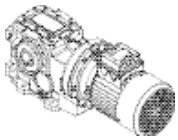
B Gearmotor Ratings – Motor Speed 1750 RPM

Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
25	103	2.1	13805	17.04	28314	4264	-	-	**PB143**	284/286TC
	94	1.3	15049	18.58	19466	4409	-	-	**PB123**	284/286TC
	94	2.1	15115	18.66	31853	4149	-	-	**PB143**	284/286TC
	94	3.5	15032	18.56	53088	7915	-	-	**PB153**	284/286TC
	85	1.3	16695	20.61	22120	4332	-	-	**PB123**	284/286TC
	85	3.5	16659	20.56	57512	8091	-	-	**PB153**	284/286TC
	83	2.1	17010	21.00	35392	4107	-	-	**PB143**	284/286TC
	77	1.3	18456	22.78	24775	4255	-	-	**PB123**	284/286TC
	77	2.1	18449	22.77	38932	3983	-	-	**PB143**	284/286TC
	73	3.1	19328	23.86	59282	8540	-	-	**PB153**	284/286TC
	69	2.9	20405	25.19	60167	8701	-	-	**PB153**	284/286TC
	68	1.2	20996	25.89	24775	4563			**PB123**	284/286TC
	68	2.0	20762	25.63	40701	4121	-	-	**PB143**	284/286TC
	64	1.1	22287	27.51	24775	4714	-	-	**PB123**	284/286TC
	64	1.8	22232	27.44	40701	4300	-	-	**PB143**	284/286TC
	62	3.1	22871	28.23	70785	8725	-	-	**PB153**	284/286TC
	58	1.7	24341	30.05	41586	4463	-	-	**PB143**	284/286TC
	58	2.9	24586	30.35	70785	8999	-	-	**PB153**	284/286TC
	53	1.6	26742	33.01	41586	4723	-	-	**PB143**	284/286TC
	52	2.6	27247	33.63	70785	9401	-	-	**PB153**	284/286TC
	50	2.5	28369	35.02	70785	9562	-	-	**PB153**	284/286TC
	48	1.4	29710	36.67	42471	4943	-	-	**PB143**	284/286TC
	45	2.3	31439	38.81	70785	9982	-	-	**PB153**	284/286TC
	43	1.3	32640	40.29	42471	5221	-	-	**PB143**	284/286TC
	41	2.1	34265	42.30	70785	10346	-	-	**PB153**	284/286TC
	40	1.2	35777	44.16	42471	5501	-	-	**PB143**	284/286TC
	37	1.8	38508	47.53	70785	10856	-	-	**PB153**	284/286TC
	36	1.1	39171	48.35	44240	5624	-	-	**PB143**	284/286TC
	35	1.7	40962	50.56	70785	11134	-	-	**PB153**	284/286TC
	33	1.0	43065	53.16	44240	5931	-	-	**PB143**	284/286TC
	32	1.0	44256	54.63	44240	6021	-	-	**PB143**	284/286TC
	32	1.6	44266	54.64	70785	11491	-	-	**PB153**	284/286TC
	31	1.5	46399	57.27	70785	11712	-	-	**PB153**	284/286TC
	29	1.4	49356	60.92	70785	12007	-	-	**PB153**	284/286TC
	28	1.4	51421	63.47	70785	12206	-	-	**PB153**	284/286TC
	25	1.2	57639	71.15	70785	12776			**PB153**	284/286TC
	23	1.1	62561	77.22	70785	13198	-	-	**PB153**	284/286TC
	21	1.0	67961	83.89	70785	13637			**PB153**	284/286TC
30	220	1.7	7744	7.97	13272	3504	-	-	**PB123**	284/286TC
	182	1.7	9352	9.62	15927	3518	-	-	**PB123**	284/286TC
	169	1.8	10046	10.33	17696	3440	-	-	**PB123**	284/286TC
	161	2.5	10538	10.84	26544	3476	-	-	**PB143**	284/286TC
	147	2.4	11537	11.87	27429	3574	-	-	**PB143**	284/286TC



Gearmotor Ratings – Motor Speed 1750 RPM B

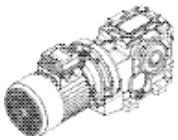
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
30	140	1.5	12132	12.48	17696	3794	-	-	**PB123**	284/286TC
	138	3.2	12290	12.64	39816	7233	-	-	**PB153**	284/286TC
	126	1.4	13459	13.84	18581	3895	-	-	**PB123**	284/286TC
	125	3.2	13620	14.01	44240	7368	-	-	**PB153**	284/286TC
	121	1.9	14082	14.49	27429	3987	-	-	**PB143**	284/286TC
	114	1.2	14954	15.38	18581	4109	-	-	**PB123**	284/286TC
	114	3.0	14971	15.40	44240	7654	-	-	**PB153**	284/286TC
	103	1.7	16566	17.04	28314	4264	-	-	**PB143**	284/286TC
	94	2.9	18039	18.56	53088	7915	-	-	**PB153**	284/286TC
	94	1.1	18059	18.58	19466	4409	-	-	**PB123**	284/286TC
	94	1.8	18138	18.66	31853	4149	-	-	**PB143**	284/286TC
	85	1.1	20034	20.61	22120	4332	-	-	**PB123**	284/286TC
	85	2.9	19991	20.56	57512	8091	-	-	**PB153**	284/286TC
	83	1.7	20412	21.00	35392	4107	-	-	**PB143**	284/286TC
	77	1.1	22147	22.78	24775	4255	-	-	**PB123**	284/286TC
	77	1.8	22139	22.77	38932	3983	-	-	**PB143**	284/286TC
	73	2.6	23194	23.86	59282	8540	-	-	**PB153**	284/286TC
	69	2.5	24486	25.19	60167	8701	-	-	**PB153**	284/286TC
	68	1.6	24914	25.63	40701	4121	-	-	**PB143**	284/286TC
	64	1.5	26678	27.44	40701	4300	-	-	**PB143**	284/286TC
	62	2.6	27445	28.23	70785	8725	-	-	**PB153**	284/286TC
	58	1.4	29209	30.05	41586	4463	-	-	**PB143**	284/286TC
	58	2.4	29504	30.35	70785	8999	-	-	**PB153**	284/286TC
	53	1.3	32090	33.01	41586	4723	-	-	**PB143**	284/286TC
	52	2.2	32697	33.63	70785	9401	-	-	**PB153**	284/286TC
	50	2.1	34043	35.02	70785	9562	-	-	**PB153**	284/286TC
	48	1.2	35652	36.67	42471	4943	-	-	**PB143**	284/286TC
	45	1.9	37727	38.81	70785	9982	-	-	**PB153**	284/286TC
	43	1.1	39169	40.29	42471	5221	-	-	**PB143**	284/286TC
	41	1.7	41118	42.30	70785	10346	-	-	**PB153**	284/286TC
	37	1.5	46210	47.53	70785	10856	-	-	**PB153**	284/286TC
	35	1.4	49155	50.56	70785	11134	-	-	**PB153**	284/286TC
	32	1.3	53120	54.64	70785	11491	-	-	**PB153**	284/286TC
	31	1.3	55679	57.27	70785	11712	-	-	**PB153**	284/286TC
	29	1.2	59228	60.92	70785	12007	-	-	**PB153**	284/286TC
	28	1.1	61705	63.47	70785	12206	-	-	**PB153**	284/286TC
40	167	2.9	13600	10.49	39816	6713	-	-	**PB153**	324/326TC
	161	1.9	14050	10.84	26544	3476	-	-	**PB143**	324/326TC
	147	1.8	15383	11.87	27429	3574	-	-	**PB143**	324/326TC
	138	2.4	16387	12.64	39816	7233	-	-	**PB153**	324/326TC
	125	2.4	18161	14.01	44240	7368	-	-	**PB153**	324/326TC
	121	1.5	18776	14.49	27429	3987	-	-	**PB143**	324/326TC
	114	2.2	19962	15.40	44240	7654	-	-	**PB153**	324/326TC
	103	1.3	22089	17.04	28314	4264	-	-	**PB143**	324/326TC



MOTOVARIO™

B Gearmotor Ratings – Motor Speed 1750 RPM

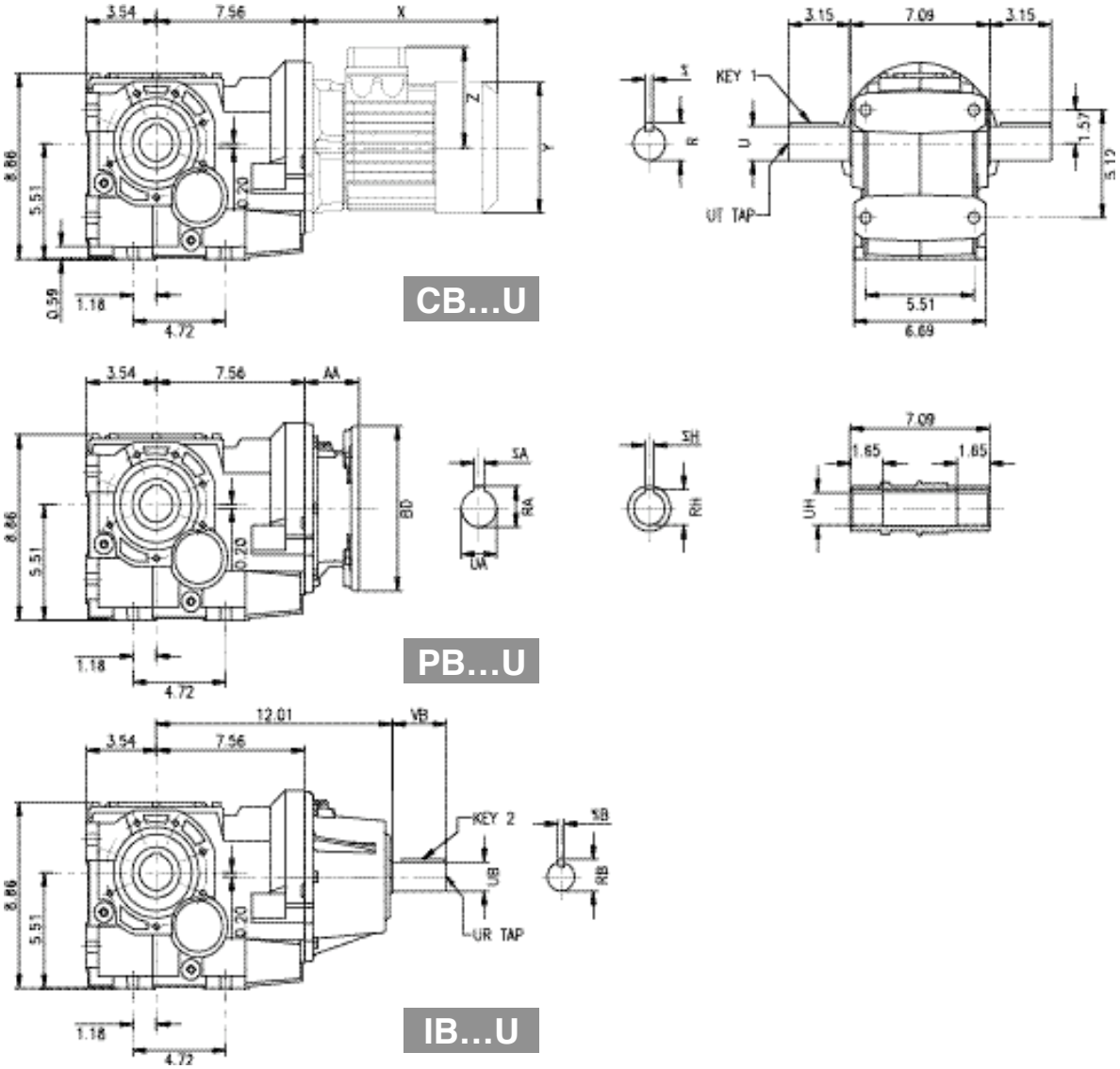
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
40	94	1.3	24184	18.66	31853	4149	-	-	**PB143**	324/326TC
	94	2.2	24052	18.56	53088	7915	-	-	**PB153**	324/326TC
	85	2.2	26655	20.56	57512	8091	-	-	**PB153**	324/326TC
	83	1.3	27216	21.00	35392	4107	-	-	**PB143**	324/326TC
	77	1.3	29518	22.77	38932	3983	-	-	**PB143**	324/326TC
	73	1.9	30925	23.86	59282	8540	-	-	**PB153**	324/326TC
	69	1.8	32648	25.19	60167	8701	-	-	**PB153**	324/326TC
	68	1.2	33219	25.63	40701	4121	-	-	**PB143**	324/326TC
	64	1.1	35571	27.44	40701	4300	-	-	**PB143**	324/326TC
	62	1.9	36594	28.23	70785	8725	-	-	**PB153**	324/326TC
	58	1.1	38946	30.05	41586	4463	-	-	**PB143**	324/326TC
	58	1.8	39338	30.35	70785	8999	-	-	**PB153**	324/326TC
	52	1.6	43596	33.63	70785	9401	-	-	**PB153**	324/326TC
	50	1.6	45390	35.02	70785	9562	-	-	**PB153**	324/326TC
	45	1.4	50303	38.81	70785	9982	-	-	**PB153**	324/326TC
	41	1.3	54824	42.30	70785	10346	-	-	**PB153**	324/326TC
	37	1.1	61613	47.53	70785	10856	-	-	**PB153**	324/326TC
	35	1.1	65540	50.56	70785	11134	-	-	**PB153**	324/326TC
	32	1.0	70826	54.64	70785	11491	-	-	**PB153**	324/326TC
50	167	2.3	17000	10.49	39816	6713	-	-	**PB153**	324/326TC
	161	1.5	17563	10.84	26544	3476	-	-	**PB143**	324/326TC
	147	1.4	19229	11.87	27429	3574	-	-	**PB143**	324/326TC
	138	1.9	20484	12.64	39816	7233	-	-	**PB153**	324/326TC
	125	1.9	22701	14.01	44240	7368	-	-	**PB153**	324/326TC
	121	1.2	23470	14.49	27429	3987	-	-	**PB143**	324/326TC
	114	1.8	24952	15.40	44240	7654	-	-	**PB153**	324/326TC
	103	1.0	27611	17.04	28314	4264	-	-	**PB143**	324/326TC
	94	1.1	30230	18.66	31853	4149	-	-	**PB143**	324/326TC
	94	1.8	30065	18.56	53088	7915	-	-	**PB153**	324/326TC
	85	1.7	33319	20.56	57512	8091	-	-	**PB153**	324/326TC
	83	1.0	34020	21.00	35392	4107	-	-	**PB143**	324/326TC
	77	1.1	36898	22.77	38932	3983	-	-	**PB143**	324/326TC
	73	1.5	38657	23.86	59282	8540	-	-	**PB153**	324/326TC
	69	1.5	40810	25.19	60167	8701	-	-	**PB153**	324/326TC
	62	1.5	45742	28.23	70785	8725	-	-	**PB153**	324/326TC
	58	1.4	49173	30.35	70785	8999	-	-	**PB153**	324/326TC
	52	1.3	54495	33.63	70785	9401	-	-	**PB153**	324/326TC
	50	1.2	56738	35.02	70785	9562	-	-	**PB153**	324/326TC
	45	1.1	62878	38.81	70785	9982	-	-	**PB153**	324/326TC
	41	1.0	68530	42.30	70785	10346	-	-	**PB153**	324/326TC
60	167	2.0	20400	10.49	39816	6713	-	-	**PB153**	364/365TC
	138	1.6	24581	12.64	39816	7233	-	-	**PB153**	364/365TC



Gearmotor Ratings – Motor Speed 1750 RPM B

Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
60	125	1.6	27241	14.01	44240	7368	-	-	**PB153**	364/365TC
	114	1.5	29942	15.40	44240	7654	-	-	**PB153**	364/365TC
	94	1.5	36078	18.56	53088	7915	-	-	**PB153**	364/365TC
	85	1.4	39983	20.56	57512	8091	-	-	**PB153**	364/365TC
	73	1.3	46388	23.86	59282	8540	-	-	**PB153**	364/365TC
	69	1.2	48972	25.19	60167	8701	-	-	**PB153**	364/365TC
	62	1.3	54890	28.23	70785	8725	-	-	**PB153**	364/365TC
	58	1.2	59007	30.35	70785	8999	-	-	**PB153**	364/365TC
	52	1.1	65393	33.63	70785	9401	-	-	**PB153**	364/365TC
	50	1.0	68086	35.02	70785	9562	-	-	**PB153**	364/365TC
75	167	1.6	25500	10.49	39816	6713	-	-	**PB153**	364/365TC
	138	1.3	30726	12.64	39816	7233	-	-	**PB153**	364/365TC
	125	1.3	34051	14.01	44240	7368	-	-	**PB153**	364/365TC
	114	1.2	37428	15.40	44240	7654	-	-	**PB153**	364/365TC
	94	1.2	45097	18.56	53088	7915	-	-	**PB153**	364/365TC
	85	1.2	49978	20.56	57512	8091	-	-	**PB153**	364/365TC
	73	1.0	57985	23.86	59282	8540	-	-	**PB153**	364/365TC
	62	1.0	68613	28.23	70785	8725	-	-	**PB153**	364/365TC

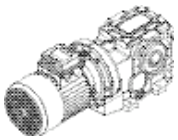
083 B Dimensions

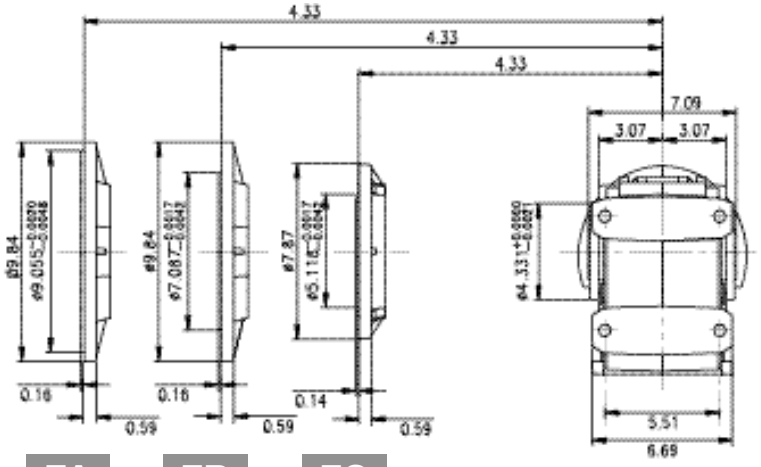


U	R	S	UT TAP	KEY 1	UH	RH	SH
1.625 $^{+0.0000}_{-0.0010}$	1.79	0.3750	5/8-11	3/8 x 3/8 x 2-1/2	1.500 $^{+0.0010}_{-0.0000}$	1.67	0.3750
40mm $^{+0.018mm}_{+0.002mm}$	43mm	12mm	M16	12 x 8 x 60mm	40mm $^{+0.025mm}_{-0.000mm}$	43.3mm	12mm
					45mm $^{+0.025mm}_{-0.000mm}$	47.6mm*	14mm

*Indicates low-profile keyway

UB	VB	RB	SB	UR TAP	KEY 2
1.375 $^{+0.0000}_{-0.0005}$	2.76	1.51	0.3125	1/2-13	5/16 x 5/16 x 2-1/8
28mm $^{+0.009mm}_{-0.004mm}$	60mm	31mm	8mm	M10	8 x 7 x 45mm





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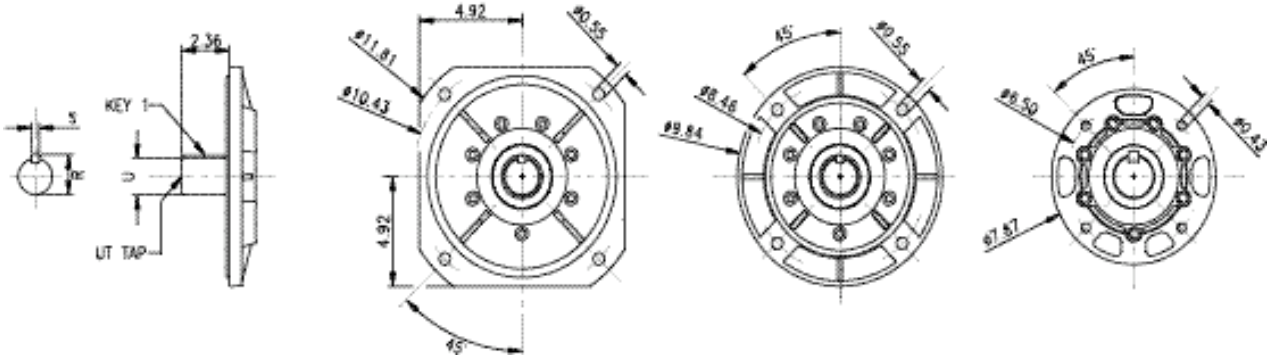


FA FB FC

		UA	RA	SA	AA	BD
NEMA	56C	0.625 +0.0010 -0.0000	0.71	0.1875	2.95	6.69
	140TC	0.875 +0.0010 -0.0000	0.97	0.1875	2.95	6.69
	180TC	1.125 +0.0010 -0.0000	1.24	0.2500	3.54	9.06
	210TC	1.375 +0.0010 -0.0000	1.52	0.3125	6.02	9.06
IEC	080	19mm +0.028mm +0.007mm	21.8mm	6mm	70mm	200mm B5
	090	24mm +0.028mm +0.007mm	27.3mm	8mm	70mm	200mm B5
	100	28mm +0.028mm +0.007mm	31.3mm	8mm	85mm	250mm B5
	112	28mm +0.028mm +0.007mm	31.3mm	8mm	85mm	250mm B5
	132	38mm +0.050mm +0.025mm	41.3mm	10mm	110mm	300mm B5

		Standard Motor			Brake Motor		
		X	Y	Z	X	Y	Z
IEC	080	9.74	6.22	4.78	12.62	6.22	4.78
	090S	10.87	6.81	5.10	13.88	6.81	5.10
	090L	11.85	6.81	5.10	14.86	6.81	5.10
	100	13.23	7.52	5.45	16.40	7.52	5.45
	112	14.13	8.29	6.04	17.81	8.29	6.04
	132S	15.96	9.78	7.64	19.47	9.78	7.64
	132M/L	17.83	9.78	7.64	21.52	9.78	7.64

Torque arm dimensions on page 156.

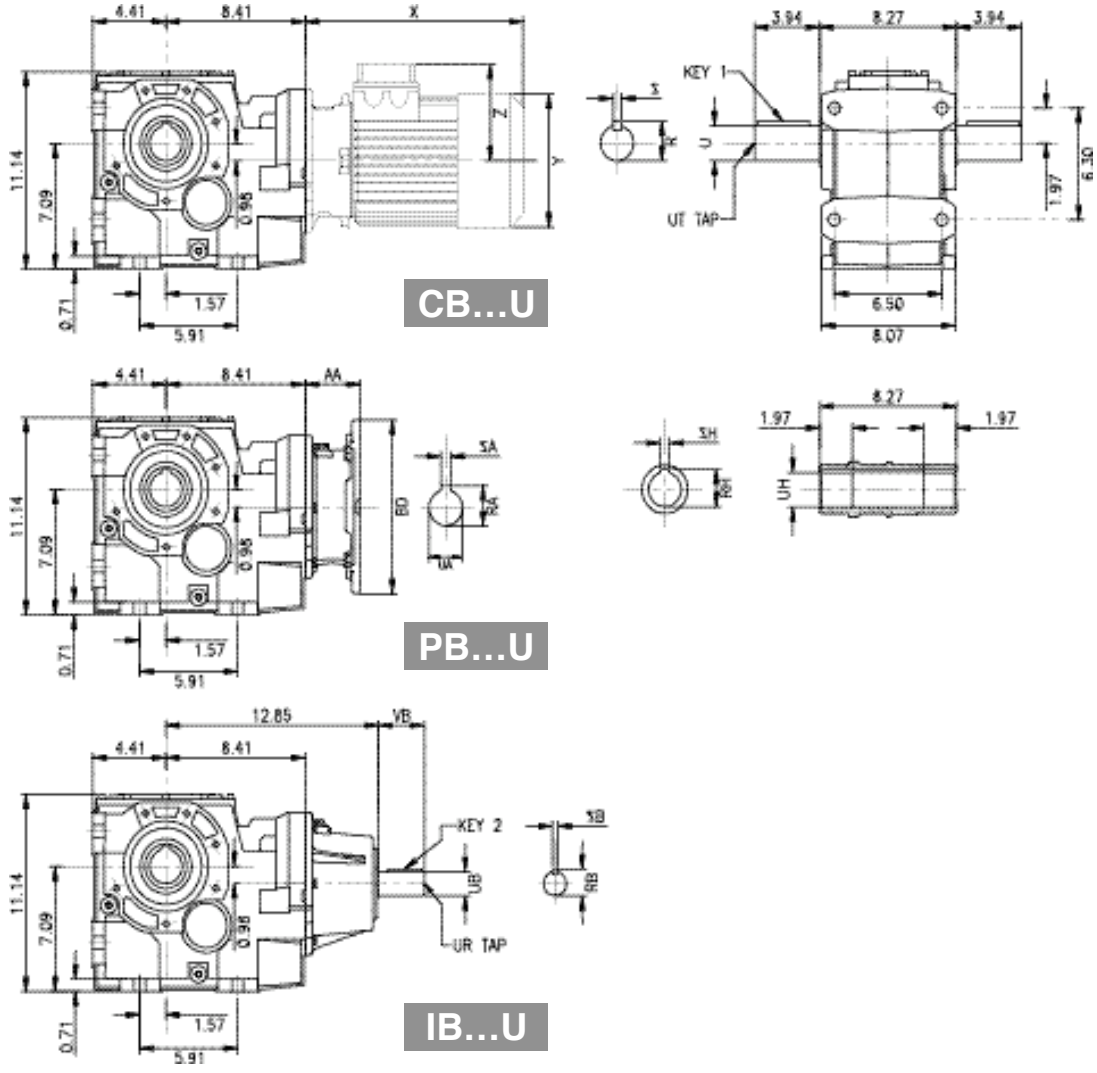
Shrink disk mounting on page 157.

Dimensions for motor connections on page 158.

Diameter of motor or motor flange may protrude below mounting feet of reducer. Please check motor connection for conflicts.

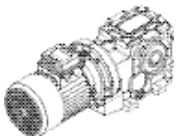
Shipping Weights on page 245.

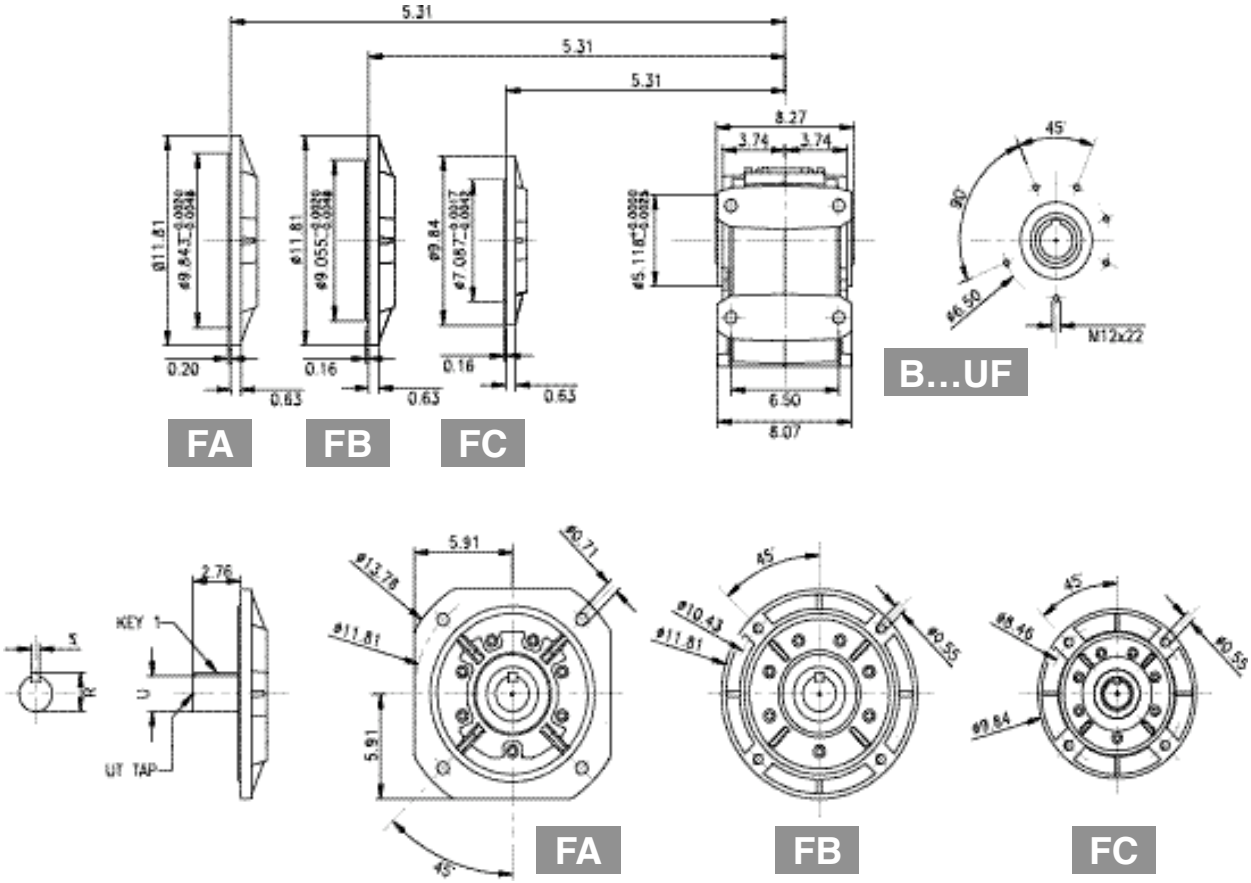
103 B Dimensions



U	R	S	UT TAP	KEY 1	UH	RH	SH
2.000 $^{+0.0000}_{-0.0010}$	2.22	0.5000	3/4-10	1/2 x 1/2 x 3-1/8	2.000 $^{+0.0015}_{-0.0000}$	2.22	0.5000
50mm $^{+0.018mm}_{+0.002mm}$	53.5mm	14mm	M16	14 x 9 x 80mm	50mm $^{+0.025mm}_{-0.000mm}$	53.8mm	14mm

UB	VB	RB	SB	UR TAP	KEY 2
1.375 $^{+0.0000}_{-0.0005}$	2.76	1.51	0.3125	1/2-13	5/16 x 5/16 x 2-1/8
28mm $^{+0.009mm}_{-0.004mm}$	60mm	31mm	8mm	M10	8 x 7 x 45mm





		UA	RA	SA	AA	BD
NEMA	56C	0.625 +0.0010 -0.0000	0.71	0.1875	2.95	6.69
	140TC	0.875 +0.0010 -0.0000	0.97	0.1875	2.95	6.69
	180TC	1.125 +0.0010 -0.0000	1.24	0.2500	3.54	9.06
	210TC	1.375 +0.0010 -0.0000	1.52	0.3125	6.02	9.06
	250TC	1.625 +0.0010 -0.0000	1.80	0.3750	6.02	9.06
IEC	080	19mm +0.028mm +0.007mm	21.8mm	6mm	70mm	200mm B5
	90	24mm +0.028mm +0.007mm	27.3mm	8mm	70mm	200mm B5
	100	28mm +0.028mm +0.007mm	31.3mm	8mm	85mm	250mm B5
	112	28mm +0.028mm +0.007mm	31.3mm	8mm	85mm	250mm B5
	132	38mm +0.050mm +0.025mm	41.3mm	10mm	110mm	300mm B5
	160	42mm +0.050mm +0.025mm	45.3mm	12mm	158mm	350mm B5

		Standard Motor			Brake Motor		
		X	Y	Z	X	Y	Z
IEC	080	9.74	6.22	4.78	12.62	6.22	4.78
	090S	10.87	6.81	5.10	13.88	6.81	5.10
	090L	11.85	6.81	5.10	14.86	6.81	5.10
	100	13.23	7.52	5.45	16.40	7.52	5.45
	112	14.13	8.29	6.04	17.81	8.29	6.04
	132S	15.96	9.78	7.64	19.47	9.78	7.64
	132M/L	17.83	9.78	7.64	21.52	9.78	7.64

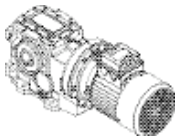
Torque arm dimensions on page 156.

Shrink disk mounting on page 157.

Dimensions for motor connections on page 158.

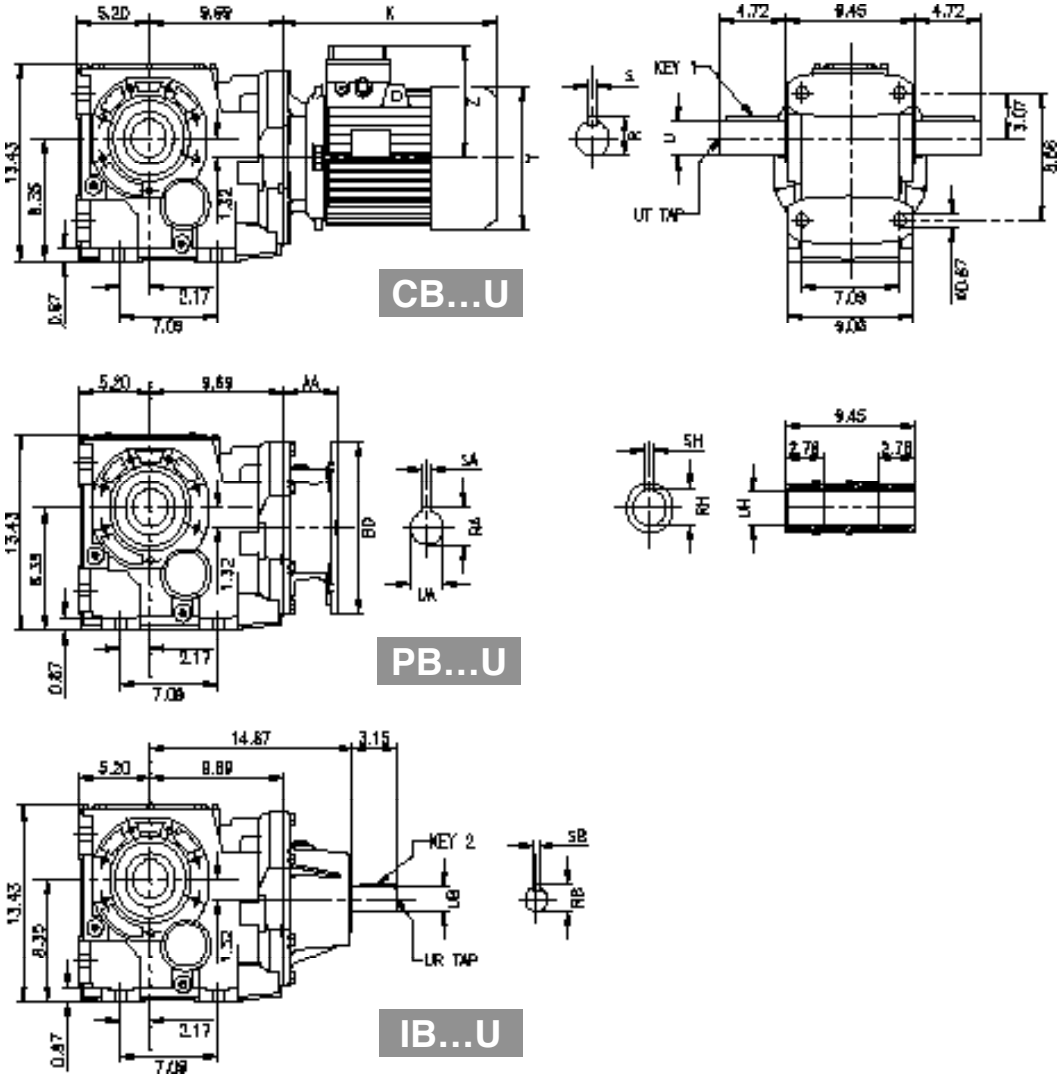
Diameter of motor or motor flange may protrude below mounting feet of reducer. Please check motor connection for conflicts.

Shipping Weights on page 245.



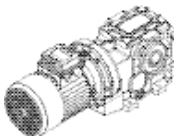
MOTOVARIO

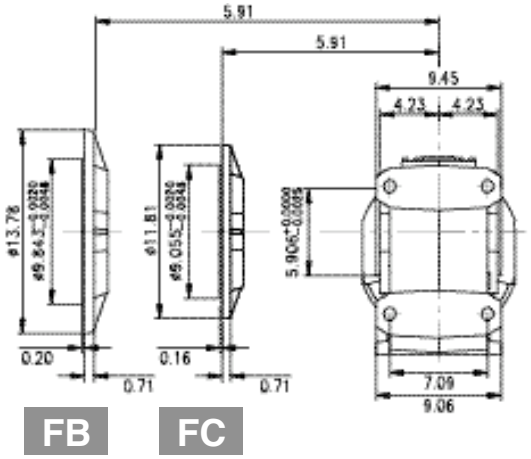
123 B Dimensions

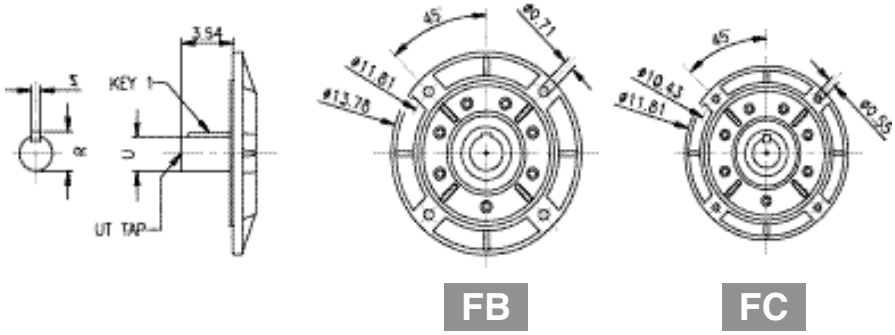


U	R	S	UT TAP	KEY 1	UH	RH	SH
2.375 +0.0000 -0.0010	2.65	0.6250	3/4-10	5/8 x 5/8 x 3-3/4	2.375 +0.0015 -0.0000	2.65	0.6250
60mm +0.030mm +0.011mm	64mm	18mm	M20	18 x 11 x 100mm	60mm +0.030mm -0.000mm	64.4mm	18mm

UB	RB	SB	UR TAP	KEY 2
1.625 +0.0000 -0.0010	1.80	0.3750	5/8-11	3/8 x 3/8 x 2-1/2
38mm +0.018mm +0.002mm	41mm	10mm	M12	10 x 8 x 60mm







		UA	RA	SA	AA	BD
NEMA	140TC	0.875 $^{+0.0010}_{-0.0000}$	0.97	0.1875	2.58	6.69
	180TC	1.125 $^{+0.0010}_{-0.0000}$	1.24	0.2500	3.17	9.06
	210TC	1.375 $^{+0.0010}_{-0.0000}$	1.52	0.3125	5.65	9.06
	250TC	1.625 $^{+0.0010}_{-0.0000}$	1.80	0.3750	5.65	9.06
	280TC	1.875 $^{+0.0010}_{-0.0000}$	2.10	0.5000	6.89	11.02
IEC	090	24mm $^{+0.028mm}_{+0.007mm}$	27.3mm	8mm	61mm	200mm B5
	100	28mm $^{+0.028mm}_{+0.007mm}$	31.3mm	8mm	76mm	250mm B5
	112	28mm $^{+0.028mm}_{+0.007mm}$	31.3mm	8mm	76mm	250mm B5
	132	38mm $^{+0.050mm}_{+0.025mm}$	41.3mm	10mm	101mm	300mm B5
	160	42mm $^{+0.050mm}_{+0.025mm}$	45.3mm	12mm	148mm	350mm B5
	180	48mm $^{+0.050mm}_{+0.025mm}$	51.8mm	14mm	148mm	350mm B5

		Standard Motor			Brake Motor		
		X	Y	Z	X	Y	Z
IEC	090S	10.49	6.81	5.10	13.50	6.81	5.10
	090L	11.48	6.81	5.10	14.49	6.81	5.10
	100	12.85	7.52	5.45	16.02	7.52	5.45
	112	13.76	8.29	6.04	17.44	8.29	6.04
	132S	15.59	9.78	7.64	19.09	9.78	7.64
	132M/L	17.46	9.78	7.64	21.14	9.78	7.64

Torque arm dimensions on page 156.

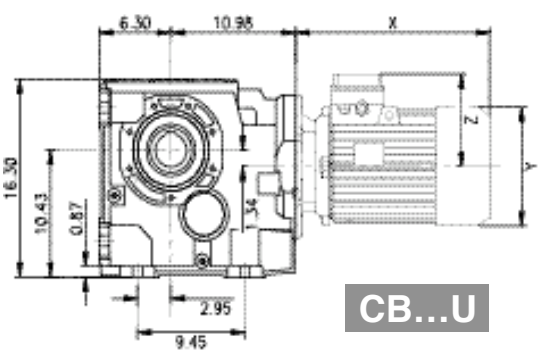
Shrink disk mounting on page 157.

Dimensions for motor connections on page 158.

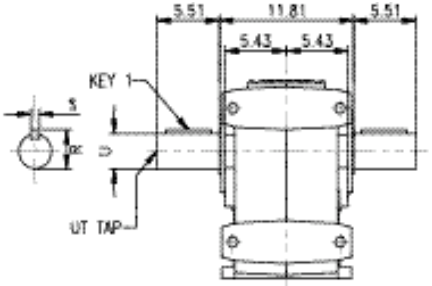
Diameter of motor or motor flange may protrude below mounting feet of reducer. Please check motor connection for conflicts.

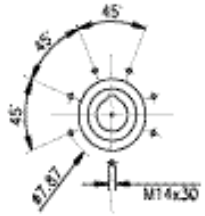
Shipping Weights on page 245.

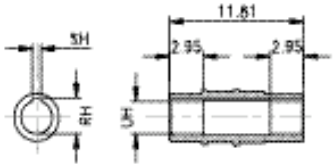
143 B Dimensions

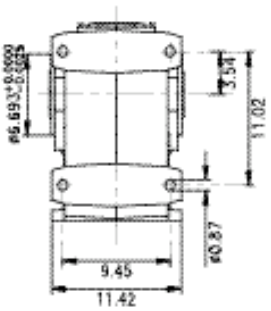


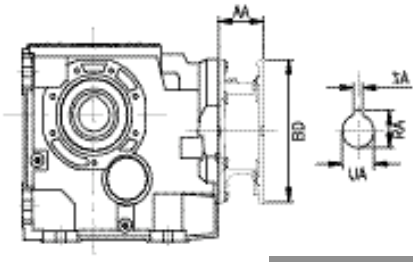
CB...U



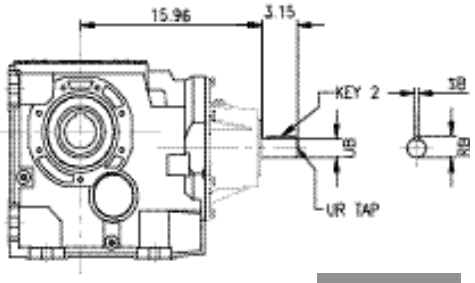








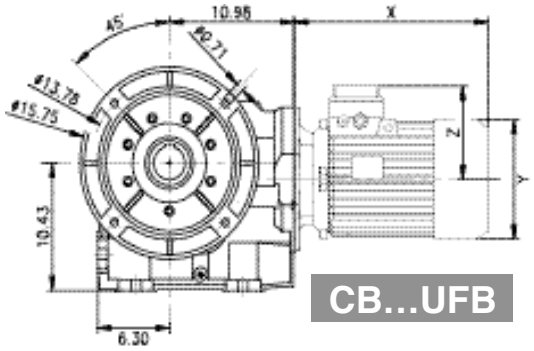
PB...U



IB...U

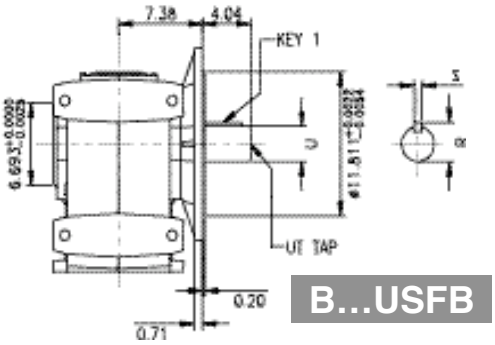
U	R	S	UT TAP	KEY 1	UH	RH	SH
2.875 +0.0000 -0.0010	3.20	0.7500	3/4-10	3/4 x 3/4 x 4	2.750 +0.0015 -0.0000	3.03	0.6250
70mm +0.030mm +0.011mm	74.5mm	20mm	M20	20 x 12 x 110mm	70mm +0.030mm -0.000mm	74.9mm	20mm

UB	RB	SB	UR TAP	KEY 2
1.625 +0.0000 -0.0010	1.79	0.3750	5/8-11	3/8 x 3/8 x 2-1/2
38mm +0.018mm +0.002mm	41mm	10mm	M12	10 x 8 x 60



CB...UFB

FB



B...USFB

		UA	RA	SA	AA	BD
NEMA	180TC	1.125 +0.0010 -0.0000	1.24	0.2500	3.17	9.06
	210TC	1.375 +0.0010 -0.0000	1.52	0.3125	5.65	9.06
	250TC	1.625 +0.0010 -0.0000	1.80	0.3750	5.65	9.06
	280TC	1.875 +0.0010 -0.0000	2.10	0.5000	6.89	11.02
	320TC	2.125 +0.0015 -0.0000	2.35	0.5000	7.03	13.39
IEC	100	28mm +0.028mm +0.007mm	31.3mm	8mm	76mm	250mm B5
	112	28mm +0.028mm +0.007mm	31.3mm	8mm	76mm	250mm B5
	132	38mm +0.050mm +0.025mm	41.3mm	10mm	101mm	300mm B5
	160	42mm +0.050mm +0.025mm	45.3mm	12mm	148mm	350mm B5
	180	48mm +0.050mm +0.025mm	51.8mm	14mm	148mm	350mm B5
	200	55mm +0.060mm +0.030mm	59.3mm	16mm	185mm	400mm B5

		Standard Motor			Brake Motor		
		X	Y	Z	X	Y	Z
IEC	100	12.85	7.52	5.45	16.02	7.52	5.45
	112	13.76	8.29	6.04	17.44	8.29	6.04
	132S	15.59	9.78	7.64	19.09	9.78	7.64
	132M/L	17.46	9.78	7.64	21.14	9.78	7.64

Torque arm dimensions on page 156.

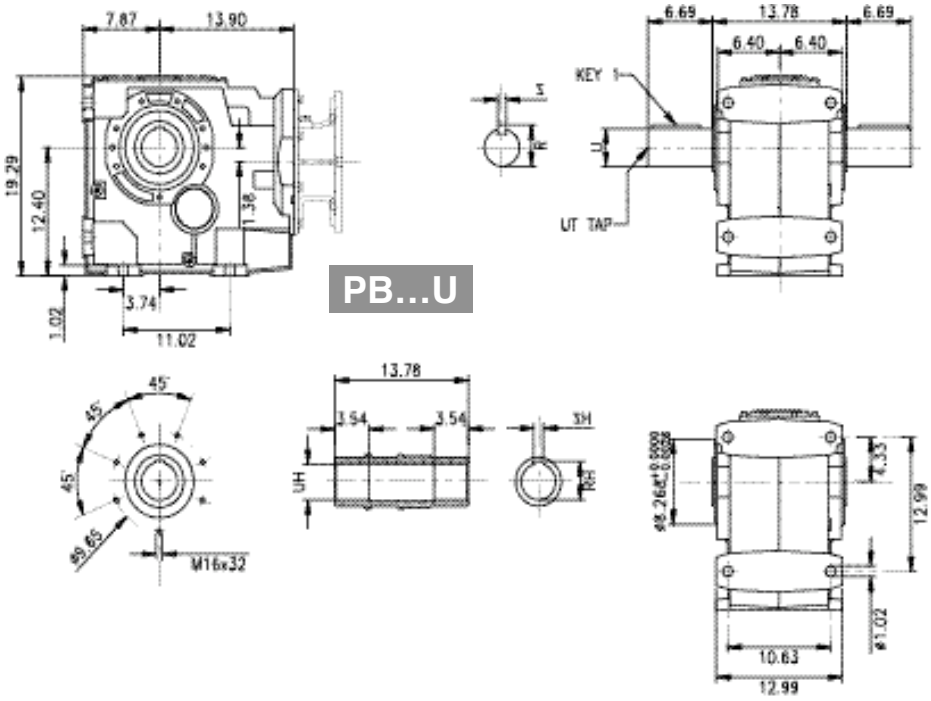
Shrink disk mounting on page 157.

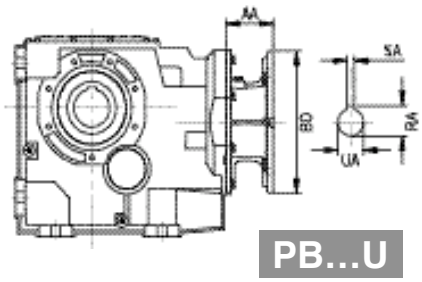
Dimensions for motor connections on page 158.

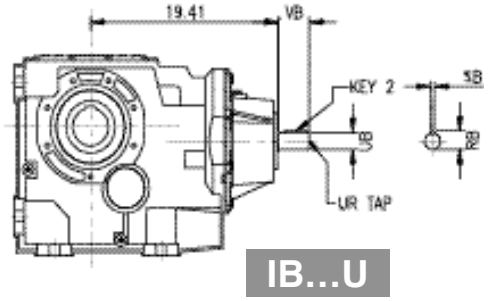
Diameter of motor or motor flange may protrude below mounting feet of reducer. Please check motor connection for conflicts.

Shipping Weights on page 245.

153 B Dimensions

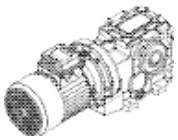


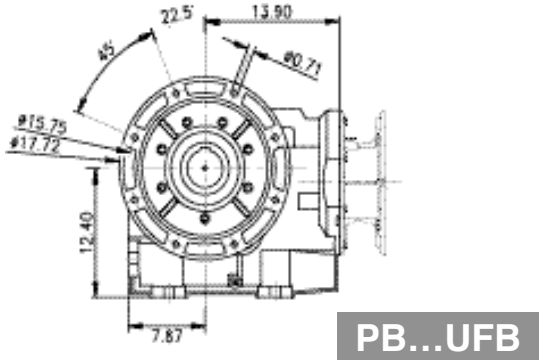




U	R	S	UT TAP	KEY 1	UH	RH	SH
3.625 +0.0000 -0.0010	4.01	0.8750	1-8	7/8 x 7/8 x 5	3.250 +0.0015 -0.0000	3.59	0.7500
90mm +0.038mm +0.013mm	95mm	25mm	M20	25 x 14 x 140mm	90mm +0.038mm -0.000mm	95.4mm	25mm

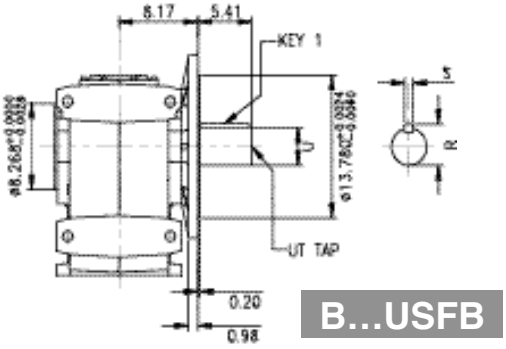
UB	VB	RB	SB	UR TAP	KEY 2
1.625 +0.0000 -0.0010	3.15	1.79	0.3750	5/8-11	3/8 x 3/8 x 2-1/2
42mm +0.018mm +0.008mm	110mm	45mm	12mm	M16	12 x 8 x 90mm



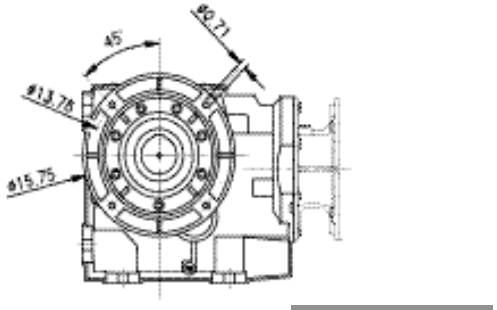


PB…UFB

FB

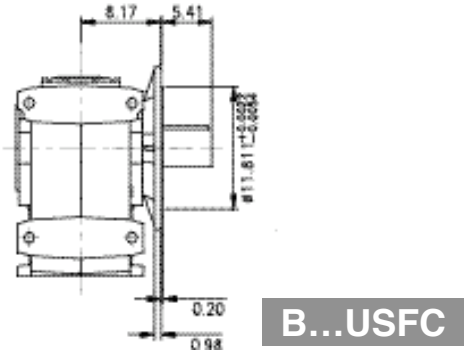


B…USFB



PB…UFC

FC



B…USFC

		UA	RA	SA	AA	BD
NEMA	180TC	1.125 $^{+0.0010}_{-0.0000}$	1.24	0.2500	2.20	9.06
	210TC	1.375 $^{+0.0010}_{-0.0000}$	1.52	0.3175	4.69	9.06
	250TC	1.625 $^{+0.0010}_{-0.0000}$	1.80	0.3750	4.69	9.06
	280TC	1.875 $^{+0.0010}_{-0.0000}$	2.10	0.5000	5.93	11.02
	320TC	2.125 $^{+0.0015}_{-0.0000}$	2.35	0.5000	6.28	13.39
	360TC	2.375 $^{+0.0015}_{-0.0000}$	2.65	0.6250	6.28	13.39
IEC	132	38mm $^{+0.050mm}_{+0.025mm}$	41.3mm	10mm	76mm	300mm B5
	160	42mm $^{+0.050mm}_{+0.025mm}$	45.3mm	12mm	124mm	350mm B5
	180	48mm $^{+0.050mm}_{+0.025mm}$	51.8mm	14mm	124mm	350mm B5
	200	55mm $^{+0.060mm}_{+0.030mm}$	59.3mm	16mm	161mm	400mm B5
	225	60mm $^{+0.060mm}_{+0.030mm}$	64.4mm	18mm	161mm	450mm B5

Torque arm dimensions on page 156.

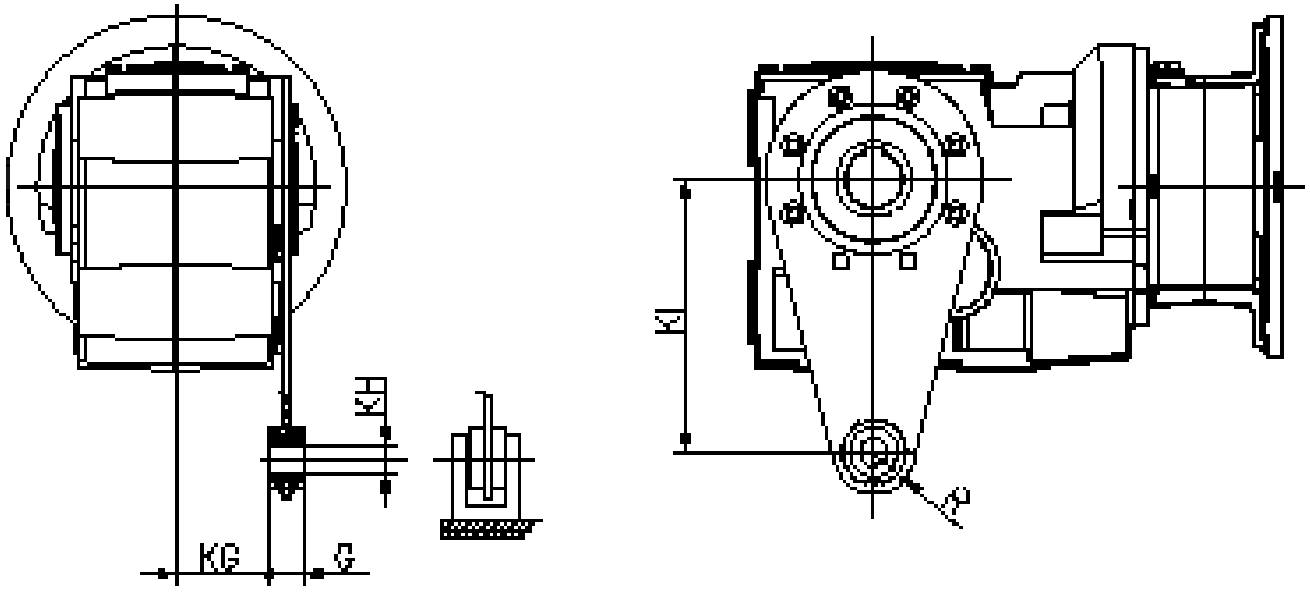
Shrink disk mounting on page 157.

Dimensions for motor connections on page 158.

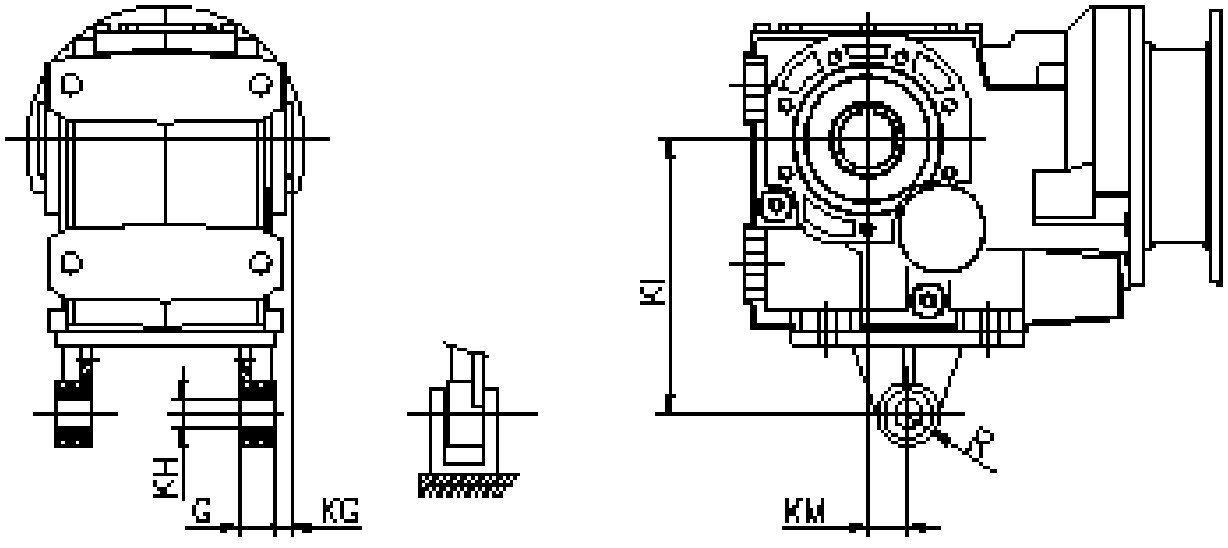
Diameter of motor or motor flange may protrude below mounting feet of reducer. Please check motor connection for conflicts.

Shipping Weights on page 245.

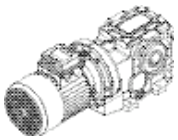
B Torque Arm



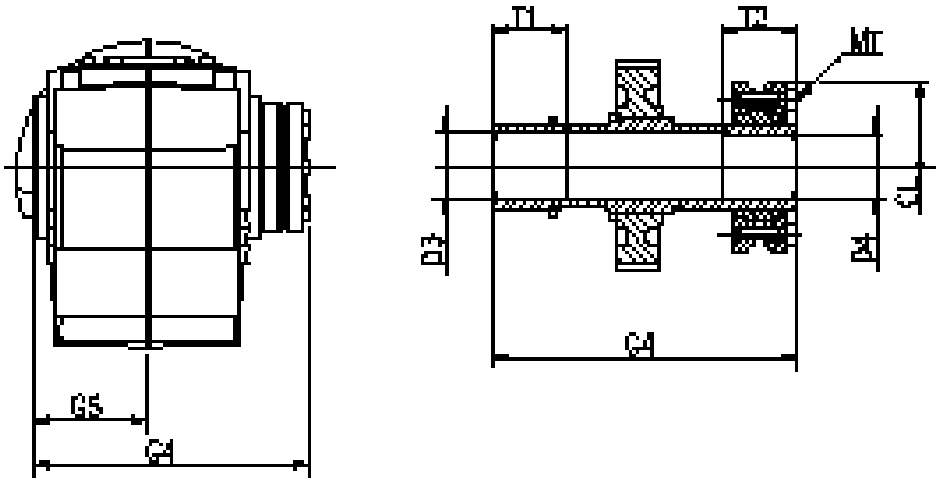
	KI	KG	KH	G	R
083	7.87	3.09	0.79	0.98	1.18
103	9.84	3.74	0.98	1.18	1.38
123	11.81	4.07	0.98	1.57	1.57



	KM	KI	KG	KH	G	R
143	1.77	13.78	1.57	1.18	2.36	1.77
153	1.77	17.72	1.77	1.18	2.36	1.77



Shrink Disk B

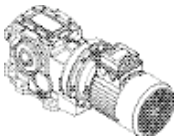


	D3	D4	G4	G5	T1	T2	CL	MT 12.9 (Nm)
083	41 $^{+0.0340}_{+0.0090}$	40 $^{+0.0250}_{+0}$	217	90	50	40	100	15
103	51 $^{+0.0400}_{+0.0100}$	50 $^{+0.0250}_{+0}$	248	105	55	40	115	15
123	61 $^{+0.0400}_{+0.0100}$	60 $^{+0.0300}_{+0}$	282	120	60	50	145	40
143	72 $^{+0.0400}_{+0.0100}$	70 $^{+0.0300}_{+0}$	355	150	70	65	170	50
153	92 $^{+0.0470}_{+0.0120}$	90 $^{+0.0350}_{+0}$	415	175	80	75	184	70

Shrink disk dimensions and tolerances are in millimeters.

Shrink disk is only available in metric dimensions.

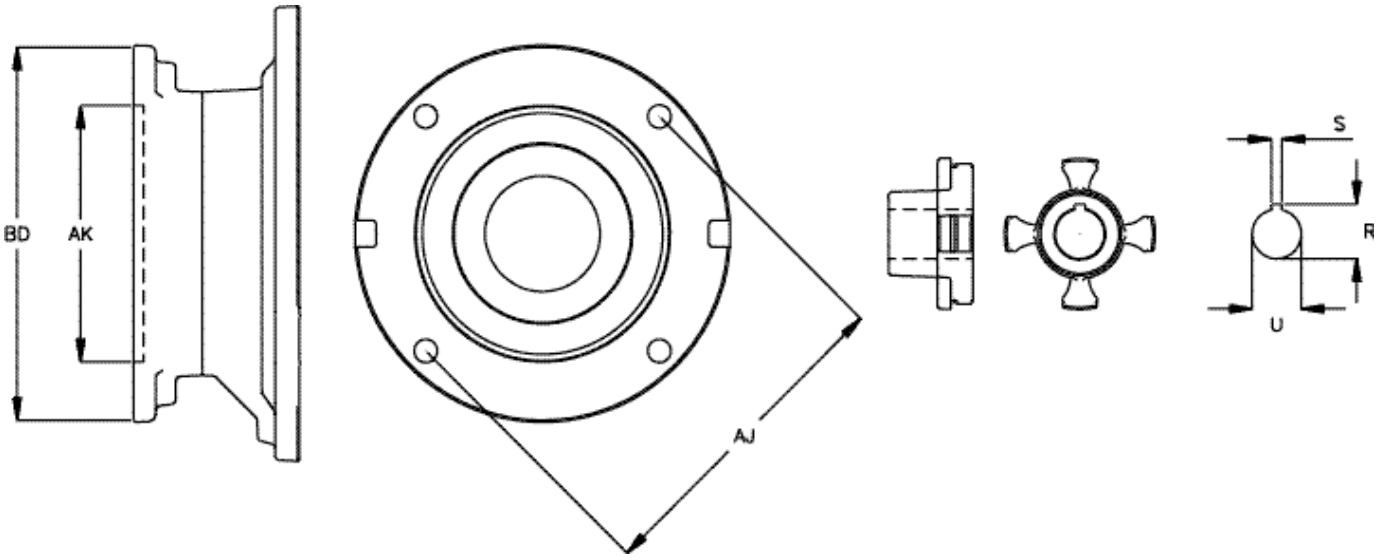
See page 249 for shaft specifications.



MOTOVARIO™

Motor Connections

Input Flange



Input Flange Dimensions

	AJ	AK	BD	R	S	U
NEMA 48C	3.75	3.00	5.625	0.56	0.1250	0.500
56C	5.88	4.50	6.500	0.71	0.1875	0.625
140TC	5.88	4.50	6.500	0.97	0.1875	0.875
180TC	7.25	8.50	9.000	1.24	0.2500	1.125
210TC	7.25	8.50	9.000	1.52	0.3125	1.375
250TC	7.25	8.50	9.000	1.59	0.3750	1.625
280TC	9.00	10.50	11.250	2.09	0.5000	1.875
320TC	11.00	12.50	13.375	2.34	0.5000	2.125
360TC	11.00	12.50	13.375	2.64	0.6250	2.375
IEC 56 B5	100mm	80mm	120mm	10.2mm	3mm	9mm
63 B5	115mm	95mm	140mm	12.8mm	4mm	11mm
71 B5	130mm	110mm	160mm	16.3mm	5mm	14mm
80 B5	165mm	130mm	200mm	21.8mm	6mm	19mm
90 B5	165mm	130mm	200mm	27.3mm	8mm	24mm
100 B5	215mm	180mm	250mm	31.3mm	8mm	28mm
112 B5	215mm	180mm	250mm	31.3mm	8mm	28mm
132 B5	265mm	230mm	300mm	41.3mm	10mm	38mm
160 B5	300mm	250mm	350mm	45.3mm	12mm	42mm
180 B5	300mm	250mm	350mm	51.8mm	14mm	48mm
200 B5	350mm	300mm	400mm	59.3mm	16mm	55mm
225 B5	400mm	350mm	450mm	64.4mm	18mm	60mm