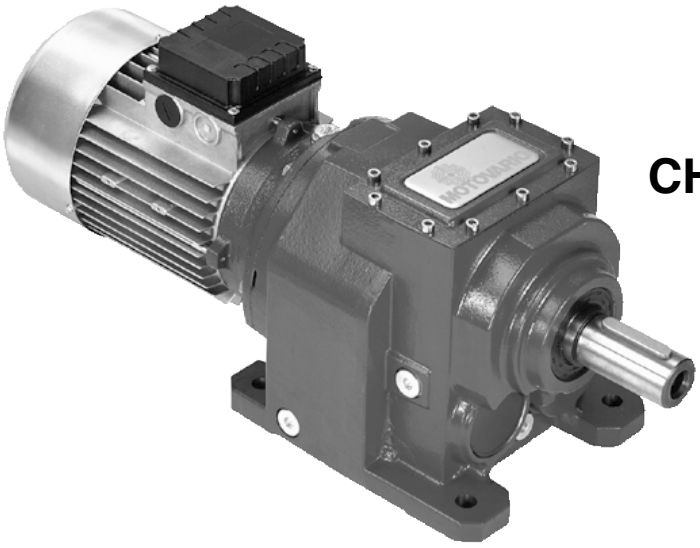
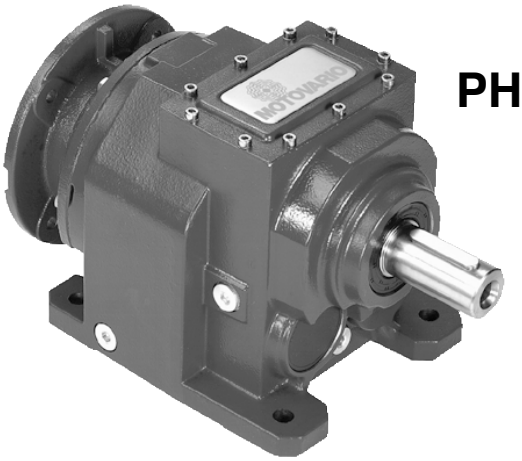
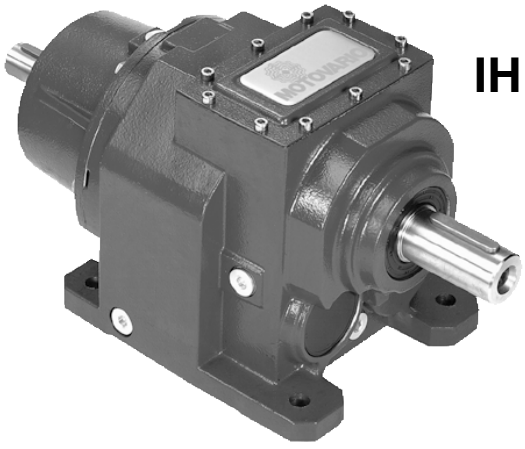


CH

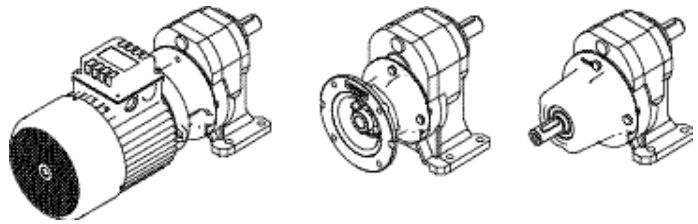
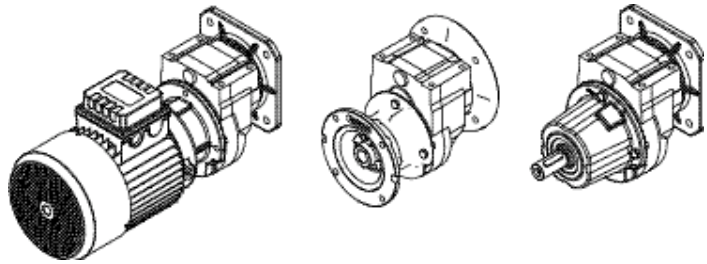
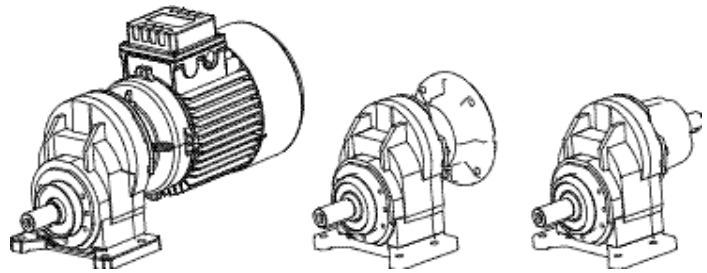
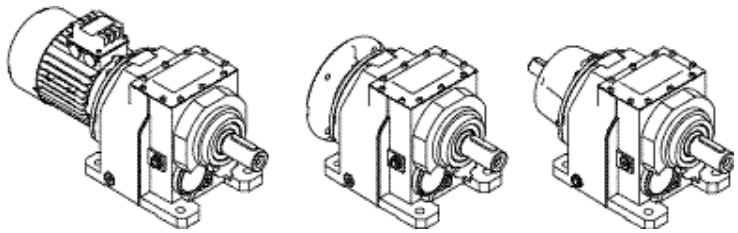
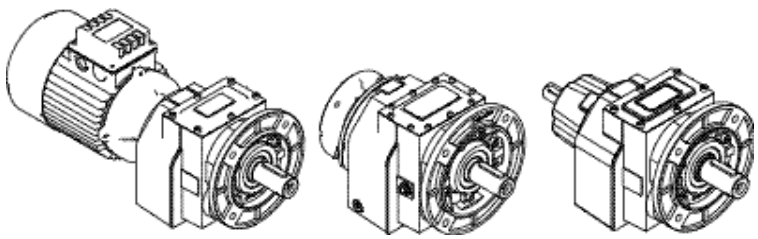


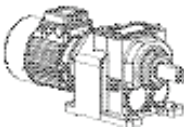
PH



IH

H Versions

	**Single Stage** Foot Mount 041 - 051 - 061 - 081 - 101 - 121
	**Single Stage** Flange Mount 041F - 051F - 061F - 081F - 101F - 121F
	**Single Stage Mono Style** Output Offset Down 041M - 051M - 061M - 081M - 101M - 121M
	**Double/Triple Stage** Foot Mount 032 - 042 - 052 - 062 - 082 - 102 - 122 - 142 033 - 043 - 053 - 063 - 083 - 103 - 123 - 143
	**Double/Triple Stage** Flange Mount 032F - 042F - 052F - 062F - 082F - 102F 122F - 142F 033F - 043F - 053F - 063F - 083F - 103F 123F - 143F



CH	082	FB	38.70	T	90S4	Pos2	50mm	B3
1	2	3	4	5	6	7	8	9

1. Style

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

PH
In-line Helical 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.

IH
In-line Helical 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

One Stage Gear Reduction	041	051
	061	081
	101	121
Two Stage Reduction	032	042
	052	062
	082	102
	122	142
Three Stage Reduction	033	043
	053	063
	083	103
	123	143

3. Output Style

M/Mono Version Single stage in-line helical reducer outputs are offset from the input; offset up is standard. The Mono version offsets the output down for lower output shaft height in certain applications.

FA, FB, FC/Output Flange In-line helical units have different output flange choices, depending on the size of the gear reducer. In-line units with output mounting flanges are a different body style than the standard foot mounted units. Please refer to the dimensional drawings for details.

4. 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 12-19 or 20-43.

5. Input Type

T
Three Phase Integral Motor CH units are supplied with Motovario three-phase motors. Please check motor size compatibility on pages 12-19.

P
IEC Input Coupling PH 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 12-19.

N
NEMA Input Coupling PH 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 12-19.

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, 72-99.

6. Integral Motor

Description of Motor Frame Size, Power and Speed The motor frame size, power and speed must be specified when ordering a CH style SmartBox™. Please check the gearmotor ratings on pages 44-70 for gearmotor specifications.

or

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

7. Motor Mounting Position

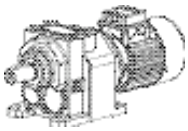
Integral Motors The motor mounting position is specified only when ordering the SmartBox™ CH style units. The motor mounting position indicates the position of the terminal box and the wire strain relief connection. The motor mounting position always refers to the gear reducer in position B3. Please refer to page 10 for motor mounting position specifications.

8. 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, 72-99.

9. 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 11 for mounting positions.



H Series Features

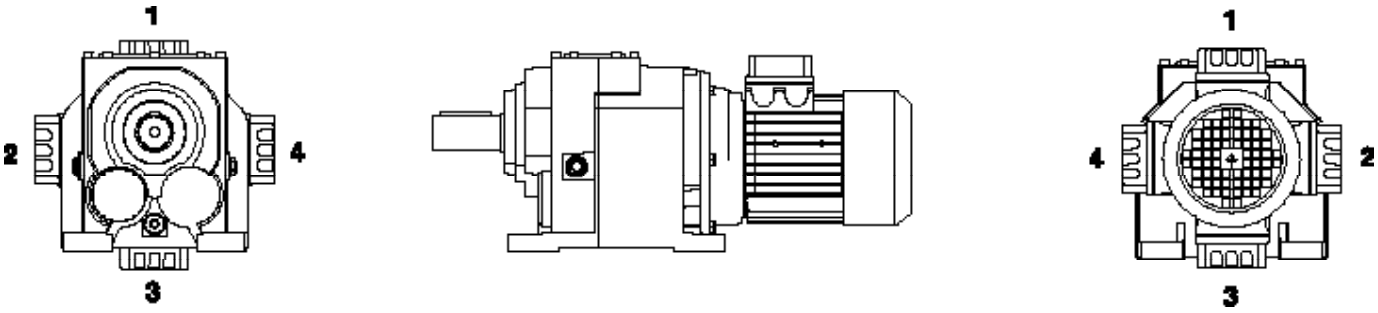
Motovario SmartBox™ H Series takes full advantage of the SmartParts™ concept, using standardized parts, shared gears, shafts, input sets and output flanges. Key design features of the SmartBox™ H Series include:

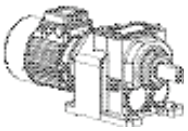
- New flexible motor coupling design
- SmartParts™ standardized parts
- One-piece PowerCase™ cast-iron housings
- Wider distance between support bearings
- Maximum performance in harsh or stressful applications
- Hardened gears
- Efficiencies up to 98% in single-stage reducers
- Efficiencies up to 95% in double and triple stage reducers
- Foot or flange mount

H Terminal Box Positions

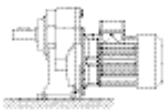
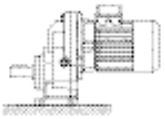
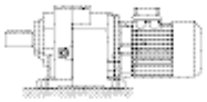
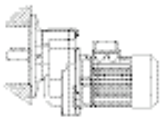
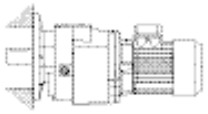
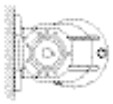
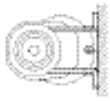
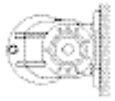
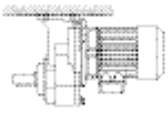
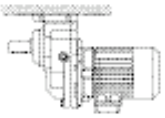
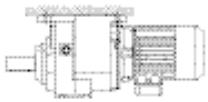
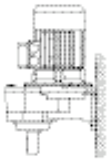
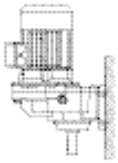
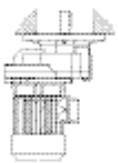
Mounting position must be specified when ordering to provide the proper gear configuration and lubrication quantity. If mounting position is not specified, gear reducers are supplied in position B3/B5 (standard position).

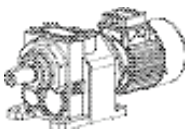
The motor terminal box position must be specified, according to the diagram, when ordering gearmotors.
If terminal box position is not specified, the gearmotor is supplied with the terminal box in position 1.
Terminal box positions always relate to the gear reducer mounted in position B3/B5.
For vertical mounting positions, refer to the Engineering and Technical Specifications section of this catalog.
For positions not specified in this catalog, please contact Motovario.





Mounting Positions H

	H...1	H...1M	H...2/3
B3			
B5			
B6			
B7			
B8			
V5			
V1			
V6			
V3			



MOTOVARIO™

H Input Types

CH-PH...032

	NEMA			IEC				
i	56C	140TC	180TC	071	080	090	100	112
4.70				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
6.53				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
7.76				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
8.87				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
10.14				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
11.76				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
13.72				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
14.66				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
16.77				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
18.20				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
19.90				B5-B11	B5-B11	B5-B11		
22.48				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
23.83				B5-B11	B5-B11	B5-B11		
26.39				B5-B11	B5-B11	B5-B11		
28.70				B5-B11	B5-B11	B5-B11		
31.89				B5-B11	B5-B11	B5-B11		
37.95				B5-B11	B5-B11	B5-B11		
41.45				B5-B11	B5-B11	B5-B11		
47.25				B5-B11	B5-B11	B5-B11		

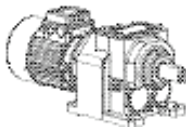
CH-PH...033

	NEMA		IEC			
i	56C	140TC	063	071	080	090
53.59			B5-B11	B5-B11	B5-B11	B5-B11
66.78			B5-B11	B5-B11	B5-B11	B5-B11
74.84			B5-B11	B5-B11	B5-B11	B5-B11
99.37			B5-B11	B5-B11	B5-B11	B5-B11
106.05			B5-B11	B5-B11		
133.71			B5-B11	B5-B11	B5-B11	B5-B11
143.33			B5-B11	B5-B11		
178.61			B5-B11	B5-B11		
197.17			B5-B11	B5-B11		
249.73			B5-B11	B5-B11		

CH-PH...041

	NEMA			IEC		
i	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4.44				B5-B11	B5-B11	B5-B11
5.60				B5-B11	B5-B11	B5-B11
6.99				B5-B11	B5-B11	B5-B11
8.21				B5-B11	B5-B11	B5-B11
9.31				B5-B11	B5-B11	B5-B11
11.60				B5-B11	B5-B11	B5-B11
13.56				B5-B11	B5-B11	B5-B11
15.99				B5-B11	B5-B11	B5-B11
17.80				B5-B11	B5-B11	B5-B11
19.90				B5-B11	B5-B11	B5-B11
23.07				B5-B11	B5-B11	B5-B11
25.98				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.



CH-PH...042

	NEMA			IEC				
i	56C	140TC	180TC	071	080	090	100	112
5.46				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
7.19				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
8.91				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
10.31				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
11.60				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
13.57				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
15.56				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
19.00				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
21.00				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
23.15				B5-B11	B5-B11	B5-B11		
26.04				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
27.50				B5-B11	B5-B11	B5-B11		
30.45				B5-B11	B5-B11	B5-B11		
34.10				B5-B11	B5-B11	B5-B11		
37.76				B5-B11	B5-B11	B5-B11		
43.75				B5-B11	B5-B11	B5-B11		
47.53				B5-B11	B5-B11	B5-B11		
54.25				B5-B11	B5-B11	B5-B11		

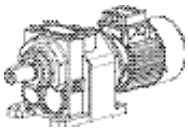
CH-PH...043

	NEMA		IEC			
i	56C	140TC	063	071	080	090
51.63			B5-B11	B5-B11	B5-B11	B5-B11
75.67			B5-B11	B5-B11	B5-B11	B5-B11
97.05			B5-B11	B5-B11	B5-B11	B5-B11
114.55			B5-B11	B5-B11	B5-B11	B5-B11
135.69			B5-B11	B5-B11		
142.04			B5-B11	B5-B11	B5-B11	B5-B11
165.38			B5-B11	B5-B11		
205.07			B5-B11	B5-B11		
237.50			B5-B11	B5-B11		
282.10			B5-B11	B5-B11		

CH-PH...051

	NEMA			IEC				
i	56C	140TC	180TC	071	080	090	100	112
4.87					B5-B11	B5-B11	B5-B11	B5-B11
5.43					B5-B11	B5-B11	B5-B11	B5-B11
6.38					B5-B11	B5-B11	B5-B11	B5-B11
6.97				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
8.17				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
9.69				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
10.96				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
11.77				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
13.96				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
15.66				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
17.33				B5-B11	B5-B11	B5-B11		
19.98				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™

H Input Types

CH-PH...052

	NEMA			IEC				
i	56C	140TC	180TC	071	080	090	100	112
5.73					B5-B11	B5-B11	B5-B11	B5-B11
6.89					B5-B11	B5-B11	B5-B11	B5-B11
8.50					B5-B11	B5-B11	B5-B11	B5-B11
9.56					B5-B11	B5-B11	B5-B11	B5-B11
11.51					B5-B11	B5-B11	B5-B11	B5-B11
14.24					B5-B11	B5-B11	B5-B11	B5-B11
16.59				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
18.09				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
19.97				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
21.67				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
24.71				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
26.16				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
28.44				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
31.52				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
33.00				B5-B11	B5-B11	B5-B11		
36.36				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
45.36				B5-B11	B5-B11	B5-B11		
49.13				B5-B11	B5-B11	B5-B11		
56.11				B5-B11	B5-B11	B5-B11		

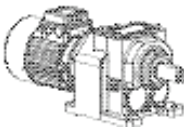
CH-PH...053

	NEMA		IEC			
i	56C	140TC	063	071	080	090
58.61			B5-B11	B5-B11	B5-B11	B5-B11
72.75			B5-B11	B5-B11	B5-B11	B5-B11
90.51			B5-B11	B5-B11	B5-B11	B5-B11
108.95			B5-B11	B5-B11	B5-B11	B5-B11
134.76			B5-B11	B5-B11	B5-B11	B5-B11
157.29			B5-B11	B5-B11		
194.58			B5-B11	B5-B11		
216.38			B5-B11	B5-B11		
267.65			B5-B11	B5-B11		

CH-PH...061

	NEMA			IEC			
i	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5.24				B5-B11	B5-B11	B5-B11	B5-B11
5.85				B5-B11	B5-B11	B5-B11	B5-B11
6.97				B5-B11	B5-B11	B5-B11	B5-B11
8.17				B5-B11	B5-B11	B5-B11	B5-B11
9.69				B5-B11	B5-B11	B5-B11	B5-B11
10.99				B5-B11	B5-B11	B5-B11	B5-B11
12.77				B5-B11	B5-B11	B5-B11	B5-B11
14.97				B5-B11	B5-B11	B5-B11	B5-B11
16.38				B5-B11	B5-B11	B5-B11	B5-B11
18.82				B5-B11	B5-B11	B5-B11	B5-B11
21.33				B5-B11	B5-B11	B5-B11	B5-B11
23.33				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.



CH-PH...062

	NEMA					IEC				
i	56C	140TC	180TC	210TC	250TC	080	090	100	112	132
5.36						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
6.53						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
7.39						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
8.50						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
9.39						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
11.69						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
12.67						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
14.75						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
16.29						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
17.67						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
20.28						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
23.27						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
25.70						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
29.33						B5-B11	B5-B11	B5-B11	B5-B11	
32.00						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
36.99						B5-B11	B5-B11	B5-B11	B5-B11	
40.33						B5-B11	B5-B11	B5-B11	B5-B11	
46.06						B5-B11	B5-B11	B5-B11	B5-B11	

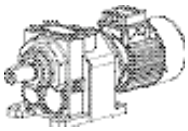
CH-PH...063

	NEMA			IEC				
i	56C	140TC	180TC	071	080	090	100	112
49.45					B5-B11	B5-B11	B5-B11	B5-B11
54.61					B5-B11	B5-B11	B5-B11	B5-B11
58.09					B5-B11	B5-B11	B5-B11	B5-B11
85.82				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
94.76				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
116.00				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
139.40				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
149.51				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
170.67				B5-B11	B5-B11	B5-B11		
186.16				B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
215.21				B5-B11	B5-B11	B5-B11		
234.87				B5-B11	B5-B11	B5-B11		
258.00				B5-B11	B5-B11	B5-B11		

CH-PH...081

	NEMA					IEC				
i	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1.39										[illegible]
1.43										[illegible]
1.66										[illegible]
1.81								[illegible]	[illegible]	[illegible]
2.05								[illegible]	[illegible]	[illegible]
2.22								[illegible]	[illegible]	[illegible]
2.69								[illegible]	[illegible]	[illegible]
2.87								[illegible]	[illegible]	[illegible]
3.01						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3.46						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3.89						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4.44						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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



MOTOVARIO™

H Input Types

CH-PH...082

	NEMA					IEC					
i	56C	140TC	180TC	210TC	250TC	080	090	100	112	132	160
5.39										B5-B11	B5
5.95										B5-B11	B5
7.39										B5-B11	B5
8.02										B5-B11	B5
8.85										B5-B11	B5
11.01										B5-B11	B5
13.50								B5-B11	B5-B11	B5-B11	B5
14.90								B5-B11	B5-B11	B5-B11	B5
16.62								B5-B11	B5-B11	B5-B11	B5
18.53								B5-B11	B5-B11	B5-B11	B5
19.56								B5-B11	B5-B11	B5-B11	B5
21.39								B5-B11	B5-B11	B5-B11	B5
23.60								B5-B11	B5-B11	B5-B11	B5
26.60								B5-B11	B5-B11	B5-B11	B5
27.68						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
31.15						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
34.38						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
38.70						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
42.75						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
48.13						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	

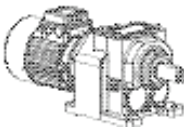
CH-PH...083

	NEMA					IEC				
i	56C	140TC	180TC	210TC	250TC	080	090	100	112	132
58.53						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
71.48						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
78.87						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
85.56						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
96.05						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
112.78						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
124.44						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
142.15						B5-B11	B5-B11	B5-B11	B5-B11	
154.76						B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
162.35						B5-B11	B5-B11			
179.13						B5-B11	B5-B11			
196.07						B5-B11	B5-B11			
222.76						B5-B11	B5-B11			

CH-PH...101

	[illegible]							
i	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]						[illegible]	[illegible]	[illegible]
[illegible]						[illegible]	[illegible]	[illegible]
[illegible]						[illegible]	[illegible]	[illegible]
[illegible]						[illegible]	[illegible]	[illegible]
[illegible]				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]						[illegible]	[illegible]	[illegible]
[illegible]				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]				[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]				[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]				[illegible]	[illegible]	[illegible]	[illegible]	

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



CH-PH...102

	NEMA				IEC				
i	180TC	210TC	250TC	280TC	100	112	132	160	180
5.35							B5-B11	B5	B5
6.36							B5-B11	B5	B5
7.05							B5-B11	B5	B5
8.37							B5-B11	B5	B5
9.99							B5-B11	B5	B5
11.09							B5-B11	B5	B5
13.02					B5-B11	B5-B11	B5-B11	B5	B5
16.09					B5-B11	B5-B11	B5-B11	B5	B5
17.86					B5-B11	B5-B11	B5-B11	B5	B5
19.85					B5-B11	B5-B11	B5-B11	B5	B5
21.44					B5-B11	B5-B11	B5-B11	B5	B5
23.97					B5-B11	B5-B11	B5-B11	B5	B5
25.89					B5-B11	B5-B11	B5-B11	B5	B5
28.73					B5-B11	B5-B11	B5-B11	B5	B5
30.73					B5-B11	B5-B11	B5-B11	B5	
34.20					B5-B11	B5-B11	B5-B11	B5	
36.49					B5-B11	B5-B11	B5-B11		
41.20					B5-B11	B5-B11	B5-B11	B5	
46.87					B5-B11	B5-B11	B5-B11	B5	
51.52					B5-B11	B5-B11	B5-B11		

CH-PH...103

	NEMA				IEC				
i	140TC	180TC	210TC	250TC	090	100	112	132	160
55.47								B5-B11	B5
59.59						B5-B11	B5-B11	B5-B11	B5
79.82						B5-B11	B5-B11	B5-B11	B5
84.16						B5-B11	B5-B11	B5-B11	B5
93.36						B5-B11	B5-B11	B5-B11	B5
100.07						B5-B11	B5-B11	B5-B11	B5
120.84						B5-B11	B5-B11	B5-B11	B5
134.06						B5-B11	B5-B11	B5-B11	B5
143.42					B5-B11	B5-B11	B5-B11	B5-B11	
160.62					B5-B11	B5-B11	B5-B11	B5-B11	
181.07					B5-B11	B5-B11	B5-B11	B5-B11	
194.31					B5-B11	B5-B11	B5-B11	B5-B11	
215.45					B5-B11	B5-B11	B5-B11	B5-B11	
242.59					B5-B11	B5-B11	B5-B11	B5-B11	

NEMA reducers available with c-face input only.
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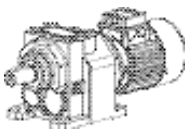

MOTOVARIO™

H Input Types

CH-PH...121

	NEMA			IEC			
i	56TC	140TC	180TC	63B5	71B5	80B5	90B5
1.04					■	■	■
1.06					■	■	■
1.09					■	■	■
1.13				■	■	■	■
1.17				■	■	■	■
1.25				■	■	■	■
1.34				■	■	■	■
1.47				■	■	■	■
1.61				■	■	■	■
1.77				■	■	■	■
1.93				■	■	■	
2.11				■	■	■	
2.32				■	■	■	

CH-PH...122

	NEMA				IEC			
i	210TC	250TC	280TC	320TC	132	160	180	200
5.27								
5.78								
7.05								
7.74								
8.48								
10.39								
12.66								
13.86								
15.93								
19.02								
20.97								
22.93								
26.47								
27.49								
29.86								
33.00								
36.13								
44.10								

CH-PH...123

	NEMA					IEC					
i	180TC	210TC	250TC	280TC	320TC	100	112	132	160	180	200
45.77								B5-B11	B5	B5	B5
55.87								B5-B11	B5	B5	B5
67.32						B5-B11	B5-B11	B5-B11	B5	B5	B5
73.71						B5-B11	B5-B11	B5-B11	B5	B5	B5
83.34						B5-B11	B5-B11	B5-B11	B5	B5	B5
91.97						B5-B11	B5-B11	B5-B11	B5	B5	B5
100.29						B5-B11	B5-B11	B5-B11	B5	B5	B5
108.34						B5-B11	B5-B11	B5-B11	B5	B5	B5
118.62						B5-B11	B5-B11	B5-B11	B5	B5	B5
138.18						B5-B11	B5-B11	B5-B11	B5	B5	
144.79						B5-B11	B5-B11	B5-B11	B5	B5	B5
155.22						B5-B11	B5-B11	B5-B11	B5	B5	
172.80						B5-B11	B5-B11	B5-B11	B5	B5	
186.19						B5-B11	B5-B11	B5-B11	B5	B5	
207.49						B5-B11	B5-B11	B5-B11	B5	B5	
230.92						B5-B11	B5-B11	B5-B11	B5	B5	
259.64						B5-B11	B5-B11	B5-B11			

NEMA reducers available with c-face input only.
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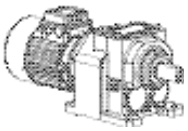


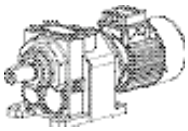
PH…142

	NEMA					IEC			
i	210TC	250TC	280TC	320TC	360TC	160	180	200	225
5.27						B5	B5	B5	B5
6.36						B5	B5	B5	B5
7.04						B5	B5	B5	B5
7.84						B5	B5	B5	B5
9.45						B5	B5	B5	B5
10.47						B5	B5	B5	B5
13.07						B5	B5	B5	B5
15.75						B5	B5	B5	B5
17.46						B5	B5	B5	B5
20.04						B5	B5	B5	B5
24.15						B5	B5	B5	B5
26.76						B5	B5	B5	B5
32.24						B5	B5	B5	B5
34.85						B5	B5	B5	B5
43.05						B5	B5	B5	B5

PH…143

	NEMA						IEC			
i	180TC	210TC	250TC	280TC	320TC	360TC	132	160	180	200
48.35								B5	B5	B5
59.53							B5	B5	B5	B5
59.33							B5	B5	B5	B5
62.99							B5	B5	B5	B5
71.35							B5	B5	B5	B5
79.07							B5	B5	B5	B5
86.43							B5	B5	B5	B5
96.21							B5	B5	B5	B5
104.61							B5	B5	B5	
116.90							B5	B5	B5	B5
128.47							B5	B5	B5	B5
139.65							B5	B5	B5	
154.59							B5	B5	B5	
185.96							B5	B5	B5	
205.06							B5	B5	B5	

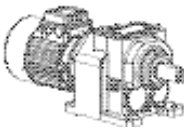
NEMA reducers available with c-face input only.
B5: Indicates IEC motor mount is available.
B11: Indicates integral IEC motor is available.



MOTOVARIO™

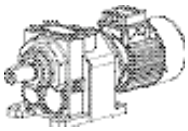
H Gear Reducer Ratings – Input Speed 1750 RPM

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
841	373	4.70	5.2	615	157	**PH032**	**IH032**
929	281	6.23	4.3	673	184	**PH032**	**IH032**
1106	225	7.76	4.1	696	190	**PH032**	**IH032**
1150	197	8.87	3.8	728	201	**PH032**	**IH032**
1239	173	10.14	3.5	752	208	**PH032**	**IH032**
1283	149	11.76	3.2	794	219	**PH032**	**IH032**
1504	128	13.72	3.2	795	219	**PH032**	**IH032**
1504	119	14.66	3.0	821	225	**PH032**	**IH032**
1681	104	16.77	2.9	830	227	**PH032**	**IH032**
1770	96	18.20	2.8	841	230	**PH032**	**IH032**
1770	88	19.90	2.6	880	237	**PH032**	**IH032**
1770	77	22.68	2.3	940	247	**PH032**	**IH032**
1770	73	23.83	2.1	963	250	**PH032**	**IH032**
1770	66	26.39	1.9	1012	256	**PH032**	**IH032**
1770	59	29.70	1.7	1071	263	**PH032**	**IH032**
1770	53	32.89	1.6	1124	268	**PH032**	**IH032**
1770	46	37.92	1.4	1200	274	**PH032**	**IH032**
1770	42	41.40	1.2	1236	278	**PH032**	**IH032**
1770	37	47.25	1.1	1236	282	**PH032**	**IH032**
1770	33	53.59	1.0	1236	286	**PH033**	**IH033**
1770	26	66.78	0.8	1236	292	**PH033**	**IH033**
1770	23	74.84	0.7	1236	295	**PH033**	**IH033**
1770	18	99.27	0.5	1236	300	**PH033**	**IH033**
1770	16	108.05	0.5	1236	301	**PH033**	**IH033**
1770	14	123.71	0.4	1236	303	**PH033**	**IH033**
1770	12	143.33	0.4	1236	305	**PH033**	**IH033**
1770	9.8	178.61	0.3	1236	307	**PH033**	**IH033**
1770	8.9	197.17	0.3	1236	308	**PH033**	**IH033**
1770	7.1	245.70	0.2	1236	309	**PH033**	**IH033**
221	1217	1.44	4.4	123	224	**PH041**	**IH041**
221	875	2.00	3.2	140	247	**PH041**	**IH041**
265	688	2.55	3.0	148	251	**PH041**	**IH041**
265	645	2.71	2.8	152	254	**PH041**	**IH041**
354	564	3.11	3.3	150	246	**PH041**	**IH041**
398	488	3.59	3.2	154	247	**PH041**	**IH041**
398	417	4.20	2.7	165	256	**PH041**	**IH041**
398	350	5.00	2.3	177	264	**PH041**	**IH041**
442	318	5.50	2.3	179	264	**PH041**	**IH041**
442	287	6.09	2.1	187	268	**PH041**	**IH041**
442	228	7.67	1.7	206	276	**PH041**	**IH041**
487	200	8.75	1.6	213	277	**PH041**	**IH041**



Gear Reducer Ratings – Input Speed 1750 RPM H

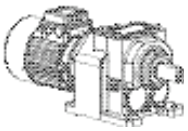
Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
1416	320	5.46	7.5	796	98	**PH042**	**IH042**
1416	243	7.19	5.7	899	151	**PH042**	**IH042**
1858	196	8.91	6.0	894	141	**PH042**	**IH042**
2124	170	10.31	6.0	902	143	**PH042**	**IH042**
2212	148	11.80	5.4	944	159	**PH042**	**IH042**
2212	129	13.57	4.7	1011	180	**PH042**	**IH042**
2212	110	15.96	4.0	1092	201	**PH042**	**IH042**
2212	92	19.00	3.4	1184	221	**PH042**	**IH042**
2212	83	21.00	3.0	1240	230	**PH042**	**IH042**
2300	76	23.15	2.9	1277	235	**PH042**	**IH042**
2300	67	26.04	2.6	1347	245	**PH042**	**IH042**
2477	64	27.50	2.6	1343	243	**PH042**	**IH042**
2477	57	30.45	2.4	1406	251	**PH042**	**IH042**
2477	51	34.10	2.1	1480	258	**PH042**	**IH042**
2477	46	37.76	1.9	1483	264	**PH042**	**IH042**
2477	40	43.75	1.6	1483	272	**PH042**	**IH042**
2477	37	47.53	1.5	1483	276	**PH042**	**IH042**
2477	32	54.25	1.3	1483	282	**PH042**	**IH042**
2654	28	61.83	1.3	1483	284	**PH043**	**IH043**
2654	23	76.67	1.0	1483	291	**PH043**	**IH043**
2654	20	87.05	0.9	1483	295	**PH043**	**IH043**
2654	15	114.55	0.7	1483	301	**PH043**	**IH043**
2654	14	125.69	0.6	1483	303	**PH043**	**IH043**
2654	12	142.04	0.6	1483	305	**PH043**	**IH043**
2654	11	165.38	0.5	1483	307	**PH043**	**IH043**
2654	8.5	205.07	0.4	1483	310	**PH043**	**IH043**
2654	7.7	227.50	0.3	1483	311	**PH043**	**IH043**
2654	6.2	282.10	0.3	1483	313	**PH043**	**IH043**
354	1375	1.27	8.0	309	186	**PH051**	**IH051**
531	1233	1.42	10.7	302	141	**PH051**	**IH051**
531	824	2.13	7.2	353	198	**PH051**	**IH051**
619	681	2.57	6.9	370	203	**PH051**	**IH051**
708	553	3.17	6.4	392	211	**PH051**	**IH051**
796	475	3.69	6.2	406	214	**PH051**	**IH051**
796	438	4.00	5.7	420	222	**PH051**	**IH051**
841	367	4.77	5.0	445	232	**PH051**	**IH051**
885	333	5.25	4.8	458	236	**PH051**	**IH051**
885	301	5.82	4.4	477	243	**PH051**	**IH051**
885	239	7.33	3.5	522	258	**PH051**	**IH051**
885	209	8.38	3.0	550	265	**PH051**	**IH051**



MOTOVARIO™

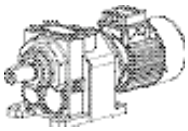
H Gear Reducer Ratings – Input Speed 1750 RPM

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
2300	306	5.73	11.6	984	58	**PH052**	**IH052**
2566	254	6.89	10.8	1025	77	**PH052**	**IH052**
3008	205	8.53	10.2	1056	89	**PH052**	**IH052**
3274	183	9.56	9.9	1072	96	**PH052**	**IH052**
3451	152	11.51	8.7	1144	123	**PH052**	**IH052**
3805	123	14.24	7.7	1210	144	**PH052**	**IH052**
3982	105	16.59	6.9	1276	161	**PH052**	**IH052**
4070	97	18.00	6.5	1314	170	**PH052**	**IH052**
4070	88	19.97	5.9	1384	184	**PH052**	**IH052**
4159	81	21.67	5.6	1426	192	**PH052**	**IH052**
4159	71	24.71	4.9	1520	207	**PH052**	**IH052**
4336	67	26.18	4.8	1533	209	**PH052**	**IH052**
4336	62	28.44	4.4	1596	217	**PH052**	**IH052**
4336	56	31.52	4.0	1676	227	**PH052**	**IH052**
4336	53	33.00	3.8	1713	231	**PH052**	**IH052**
4336	45	38.98	3.2	1798	243	**PH052**	**IH052**
4336	39	45.36	2.8	1798	253	**PH052**	**IH052**
4336	36	49.13	2.6	1798	258	**PH052**	**IH052**
4336	31	56.11	2.2	1798	265	**PH052**	**IH052**
4424	30	58.81	2.2	1798	266	**PH053**	**IH053**
4424	24	72.75	1.8	1798	276	**PH053**	**IH053**
4424	19	90.51	1.4	1798	283	**PH053**	**IH053**
4424	16	108.95	1.2	1798	288	**PH053**	**IH053**
4424	13	134.76	1.0	1798	293	**PH053**	**IH053**
4424	11	157.29	0.8	1798	296	**PH053**	**IH053**
4424	9.0	194.56	0.7	1798	300	**PH053**	**IH053**
4424	8.1	216.38	0.6	1798	301	**PH053**	**IH053**
4424	6.5	267.65	0.5	1798	304	**PH053**	**IH053**
708	1302	1.34	15.1	456	471	**PH061**	**IH061**
1062	824	2.13	14.3	496	481	**PH061**	**IH061**
1062	681	2.57	11.8	538	513	**PH061**	**IH061**
1150	553	3.17	10.4	574	532	**PH061**	**IH061**
1327	475	3.69	10.3	587	533	**PH061**	**IH061**
1327	438	4.00	9.5	608	544	**PH061**	**IH061**
1416	367	4.77	8.5	643	557	**PH061**	**IH061**
1504	333	5.25	8.2	657	561	**PH061**	**IH061**
1504	301	5.82	7.4	688	572	**PH061**	**IH061**
1504	239	7.33	5.9	759	592	**PH061**	**IH061**
1504	209	8.38	5.1	803	601	**PH061**	**IH061**



Gear Reducer Ratings – Input Speed 1750 RPM H

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	326	5.38	23.8	1586	184	**PH062**	**IH062**
4866	295	5.93	23.7	1596	185	**PH062**	**IH062**
4866	237	7.39	19.0	1769	269	**PH062**	**IH062**
5309	206	8.50	18.1	1821	287	**PH062**	**IH062**
5309	186	9.39	16.4	1908	318	**PH062**	**IH062**
5751	150	11.69	14.2	2045	356	**PH062**	**IH062**
6194	138	12.67	14.1	2057	357	**PH062**	**IH062**
6194	119	14.75	12.1	2211	393	**PH062**	**IH062**
7078	107	16.29	12.6	2184	386	**PH062**	**IH062**
7344	99	17.67	12.0	2232	396	**PH062**	**IH062**
7521	86	20.28	10.7	2361	419	**PH062**	**IH062**
7521	75	23.27	9.3	2522	444	**PH062**	**IH062**
7521	68	25.70	8.5	2643	460	**PH062**	**IH062**
7078	60	29.33	7.0	2697	486	**PH062**	**IH062**
7521	55	32.00	6.8	2697	490	**PH062**	**IH062**
7078	47	36.99	5.5	2697	512	**PH062**	**IH062**
7521	43	40.33	5.4	2697	515	**PH062**	**IH062**
7521	38	46.06	4.7	2697	527	**PH062**	**IH062**
7521	35	49.45	4.5	2697	533	**PH063**	**IH063**
7521	32	54.61	4.1	2697	540	**PH063**	**IH063**
7521	26	68.00	3.3	2697	554	**PH063**	**IH063**
7521	20	85.82	2.6	2697	566	**PH063**	**IH063**
7521	18	94.76	2.3	2697	571	**PH063**	**IH063**
7521	15	118.00	1.9	2697	579	**PH063**	**IH063**
7521	13	135.40	1.6	2697	583	**PH063**	**IH063**
7521	12	149.51	1.5	2697	586	**PH063**	**IH063**
7521	10	170.67	1.3	2697	589	**PH063**	**IH063**
7521	9.4	186.18	1.2	2697	591	**PH063**	**IH063**
7521	8.1	215.21	1.0	2697	594	**PH063**	**IH063**
7521	7.5	234.67	0.9	2697	595	**PH063**	**IH063**
7521	6.5	268.00	0.8	2697	597	**PH063**	**IH063**
1770	1349	1.30	39.1	474	199	**PH081**	**IH081**
1947	1225	1.43	39.0	477	199	**PH081**	**IH081**
2035	906	1.93	30.2	539	302	**PH081**	**IH081**
2477	689	2.54	27.9	564	329	**PH081**	**IH081**
2743	538	3.25	24.2	606	372	**PH081**	**IH081**
2743	470	3.72	21.1	647	408	**PH081**	**IH081**
2831	438	4.00	20.3	660	418	**PH081**	**IH081**
2831	375	4.67	17.4	710	452	**PH081**	**IH081**
2920	316	5.54	15.1	759	478	**PH081**	**IH081**
3008	288	6.08	14.2	783	489	**PH081**	**IH081**
3097	233	7.50	11.8	852	516	**PH081**	**IH081**
3097	207	8.44	10.5	898	532	**PH081**	**IH081**



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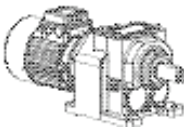
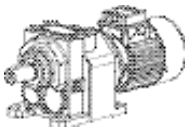
H Gear Reducer Ratings – Input Speed 1750 RPM

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
6194	325	5.39	33.3	2004	176	**PH082**	**IH082**
6194	294	5.95	30.1	2094	220	**PH082**	**IH082**
7078	237	7.39	27.7	2201	255	**PH082**	**IH082**
7078	218	8.02	25.5	2283	285	**PH082**	**IH082**
7963	198	8.85	26.0	2283	278	**PH082**	**IH082**
9733	159	11.01	25.6	2316	284	**PH082**	**IH082**
12387	130	13.50	26.5	2248	271	**PH082**	**IH082**
13272	117	14.90	25.8	2267	282	**PH082**	**IH082**
13272	105	16.62	23.1	2407	320	**PH082**	**IH082**
13272	94	18.53	20.7	2551	353	**PH082**	**IH082**
14157	90	19.38	21.1	2510	348	**PH082**	**IH082**
14157	82	21.39	19.1	2648	376	**PH082**	**IH082**
14157	77	22.80	18.0	2739	393	**PH082**	**IH082**
14157	66	26.60	15.4	2968	429	**PH082**	**IH082**
14157	63	27.88	14.7	3040	439	**PH082**	**IH082**
14157	56	31.15	13.1	3215	461	**PH082**	**IH082**
14157	51	34.38	11.9	3375	478	**PH082**	**IH082**
14157	45	38.70	10.6	3575	497	**PH082**	**IH082**
14157	41	42.75	9.6	3749	512	**PH082**	**IH082**
14157	36	48.13	8.5	3965	527	**PH082**	**IH082**
14157	31	56.53	7.4	4045	545	**PH083**	**IH083**
15927	24	71.48	6.6	4045	556	**PH083**	**IH083**
15927	22	78.87	6.0	4045	565	**PH083**	**IH083**
15927	20	85.56	5.5	4045	571	**PH083**	**IH083**
15927	18	98.09	4.8	4045	581	**PH083**	**IH083**
15927	16	112.78	4.2	4045	590	**PH083**	**IH083**
15927	14	124.44	3.8	4045	595	**PH083**	**IH083**
15927	12	142.15	3.3	4045	602	**PH083**	**IH083**
15927	11	154.76	3.0	4045	605	**PH083**	**IH083**
15927	11	162.35	2.9	4045	607	**PH083**	**IH083**
15927	9.8	179.13	2.6	4045	611	**PH083**	**IH083**
15927	9.0	195.07	2.4	4045	614	**PH083**	**IH083**
15927	7.9	222.78	2.1	4045	618	**PH083**	**IH083**
3539	1354	1.29	78.4	578	408	**PH101**	**IH101**
3982	1241	1.41	80.8	573	393	**PH101**	**IH101**
3982	861	2.03	56.1	679	545	**PH101**	**IH101**
4866	705	2.48	56.2	686	545	**PH101**	**IH101**
5309	535	3.27	46.4	753	605	**PH101**	**IH101**
5309	473	3.70	41.1	798	638	**PH101**	**IH101**
5397	414	4.22	36.6	844	665	**PH101**	**IH101**
5486	359	4.88	32.2	896	692	**PH101**	**IH101**
5486	332	5.27	29.8	928	707	**PH101**	**IH101**
5663	281	6.23	26.0	990	731	**PH101**	**IH101**
5751	232	7.55	21.8	1073	756	**PH101**	**IH101**
5751	208	8.40	19.6	1124	770	**PH101**	**IH101**



Gear Reducer Ratings – Input Speed 1750 RPM H

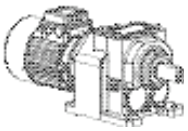
Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
15927	333	5.26	87.5	2084	389	**PH102**	**IH102**
17696	275	6.36	80.6	2146	431	**PH102**	**IH102**
20351	248	7.05	83.5	2025	413	**PH102**	**IH102**
22120	212	8.27	77.3	2070	451	**PH102**	**IH102**
24775	175	9.99	71.7	2084	485	**PH102**	**IH102**
26544	158	11.09	69.3	2070	500	**PH102**	**IH102**
27429	131	13.32	59.6	2274	559	**PH102**	**IH102**
28314	109	16.09	50.9	2505	611	**PH102**	**IH102**
28314	98	17.85	45.9	2687	641	**PH102**	**IH102**
28314	88	19.85	41.3	2880	669	**PH102**	**IH102**
28314	82	21.44	38.2	3025	688	**PH102**	**IH102**
29199	73	23.97	35.2	3155	706	**PH102**	**IH102**
29199	68	25.89	32.6	3309	722	**PH102**	**IH102**
29199	61	28.73	29.4	3522	741	**PH102**	**IH102**
28314	57	30.72	26.7	3749	758	**PH102**	**IH102**
28314	51	34.20	24.0	3983	774	**PH102**	**IH102**
24775	46	38.45	18.6	4588	807	**PH102**	**IH102**
29199	42	41.30	20.5	4328	796	**PH102**	**IH102**
29199	38	45.82	18.4	4577	808	**PH102**	**IH102**
29199	34	51.52	16.4	4868	820	**PH102**	**IH102**
30968	32	55.47	16.5	4888	822	**PH103**	**IH103**
30968	25	69.69	13.1	4944	842	**PH103**	**IH103**
30968	22	79.82	11.5	4944	851	**PH103**	**IH103**
30968	21	84.16	10.9	4944	855	**PH103**	**IH103**
30968	19	93.36	9.8	4944	861	**PH103**	**IH103**
30968	17	100.07	9.1	4944	865	**PH103**	**IH103**
30968	14	120.84	7.6	4944	875	**PH103**	**IH103**
30968	13	134.06	6.8	4944	879	**PH103**	**IH103**
30968	12	143.42	6.4	4944	882	**PH103**	**IH103**
30968	11	160.82	5.7	4944	886	**PH103**	**IH103**
30968	9.7	181.07	5.1	4944	889	**PH103**	**IH103**
30968	9.0	194.21	4.7	4944	892	**PH103**	**IH103**
30968	8.1	215.45	4.2	4944	894	**PH103**	**IH103**
31853	7.2	242.59	3.9	4944	896	**PH103**	**IH103**
5751	1422	1.23	133.8	683	195	**PH121**	**IH121**
6194	1235	1.42	125.2	706	240	**PH121**	**IH121**
6194	969	1.81	98.2	795	379	**PH121**	**IH121**
6636	875	2.00	95.0	808	395	**PH121**	**IH121**
7078	706	2.48	81.7	870	463	**PH121**	**IH121**
7078	592	2.95	68.6	947	531	**PH121**	**IH121**
7255	557	3.14	66.1	964	544	**PH121**	**IH121**
7521	489	3.58	60.2	1010	574	**PH121**	**IH121**
7521	425	4.12	52.3	1078	615	**PH121**	**IH121**
7698	365	4.80	45.9	1146	647	**PH121**	**IH121**
7786	336	5.21	42.8	1185	664	**PH121**	**IH121**
7963	280	6.25	36.5	1276	696	**PH121**	**IH121**
8848	227	7.70	32.9	1348	714	**PH121**	**IH121**



MOTOVARIO™

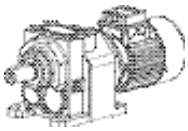
H Gear Reducer Ratings – Input Speed 1750 RPM

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
26544	332	5.27	145.6	3024	175	**PH122**	**IH122**
28314	303	5.78	141.8	3037	194	**PH122**	**IH122**
31853	248	7.05	130.7	3111	249	**PH122**	**IH122**
32738	226	7.74	122.3	3218	292	**PH122**	**IH122**
33623	206	8.48	114.8	3325	330	**PH122**	**IH122**
35392	169	10.35	99.0	3593	409	**PH122**	**IH122**
38932	138	12.66	88.9	3751	459	**PH122**	**IH122**
40701	126	13.86	84.9	3817	479	**PH122**	**IH122**
42471	103	16.92	72.6	4158	541	**PH122**	**IH122**
44240	91	19.32	66.2	4354	573	**PH122**	**IH122**
44240	85	20.57	62.2	4521	593	**PH122**	**IH122**
44240	78	22.52	56.8	4768	620	**PH122**	**IH122**
44240	72	24.47	52.3	5001	643	**PH122**	**IH122**
44240	64	27.49	46.6	5339	672	**PH122**	**IH122**
44240	59	29.86	42.9	5587	690	**PH122**	**IH122**
44240	53	33.00	38.8	5895	711	**PH122**	**IH122**
44240	48	36.13	35.4	6184	728	**PH122**	**IH122**
44240	40	44.10	29.0	6742	760	**PH122**	**IH122**
44240	38	45.77	28.6	6742	765	**PH123**	**IH123**
44240	31	55.87	23.4	6742	791	**PH123**	**IH123**
44240	26	67.32	19.4	6742	810	**PH123**	**IH123**
44240	24	73.71	17.7	6742	818	**PH123**	**IH123**
44240	21	83.34	15.7	6742	828	**PH123**	**IH123**
44240	19	89.97	14.5	6742	834	**PH123**	**IH123**
44240	17	100.29	13.0	6742	841	**PH123**	**IH123**
44240	16	108.34	12.1	6742	846	**PH123**	**IH123**
44240	15	118.62	11.0	6742	851	**PH123**	**IH123**
44240	14	128.18	10.2	6742	855	**PH123**	**IH123**
44240	12	144.79	9.0	6742	861	**PH123**	**IH123**
44240	11	155.22	8.4	6742	864	**PH123**	**IH123**
44240	10	172.80	7.6	6742	868	**PH123**	**IH123**
44240	9.2	189.19	6.9	6742	872	**PH123**	**IH123**
44240	7.6	230.92	5.7	6742	878	**PH123**	**IH123**
44240	6.7	259.54	5.0	6742	878	**PH123**	**IH123**



Gear Reducer Ratings – Input Speed 1750 RPM H

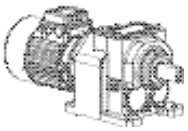
Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
40701	332	5.27	223.2	3823	963	**PH142**	**IH142**
43356	275	6.36	197.4	4060	963	**PH142**	**IH142**
44240	248	7.04	181.7	4246	963	**PH142**	**IH142**
46895	223	7.84	173.0	4319	1204	**PH142**	**IH142**
57512	185	9.45	176.1	4013	1204	**PH142**	**IH142**
63706	167	10.47	176.0	3831	1204	**PH142**	**IH142**
64591	134	13.07	143.0	4422	1228	**PH142**	**IH142**
69015	111	15.75	126.8	4678	1228	**PH142**	**IH142**
69900	100	17.45	115.9	4953	1228	**PH142**	**IH142**
70785	87	20.04	102.2	5365	1228	**PH142**	**IH142**
70785	72	24.15	84.8	6047	1228	**PH142**	**IH142**
70785	65	26.76	76.5	6441	1228	**PH142**	**IH142**
70785	54	32.24	63.5	7190	1228	**PH142**	**IH142**
70785	45	38.85	52.7	7987	1228	**PH142**	**IH142**
70785	41	43.05	47.6	8448	1228	**PH142**	**IH142**
70785	36	48.35	43.3	8988	1926	**PH143**	**IH143**
70785	33	53.53	39.1	9478	1927	**PH143**	**IH143**
70785	30	59.22	35.3	9982	1927	**PH143**	**IH143**
70785	28	62.99	33.2	10299	1927	**PH143**	**IH143**
70785	25	71.35	29.3	10957	1927	**PH143**	**IH143**
70785	22	79.07	26.4	11520	1927	**PH143**	**IH143**
70785	20	86.43	24.2	12024	1928	**PH143**	**IH143**
70785	18	96.21	21.7	12360	1928	**PH143**	**IH143**
70785	17	104.51	20.0	12360	1928	**PH143**	**IH143**
70785	15	115.92	18.0	12360	1928	**PH143**	**IH143**
70785	14	128.47	16.3	12360	1929	**PH143**	**IH143**
70785	13	139.55	15.0	12360	1928	**PH143**	**IH143**
70785	11	154.33	13.6	12360	1928	**PH143**	**IH143**
70785	9.4	185.96	11.2	12360	1928	**PH143**	**IH143**
70785	8.5	206.08	10.1	12360	1929	**PH143**	**IH143**



MOTOVARIO™

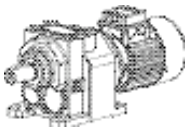
H Gear Reducer Ratings – Input Speed 1140 RPM

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
841	243	4.70	3.4	742	157	**PH032**	**IH032**
929	183	6.23	2.8	813	184	**PH032**	**IH032**
1106	147	7.76	2.7	846	190	**PH032**	**IH032**
1150	129	8.87	2.4	885	201	**PH032**	**IH032**
1239	112	10.14	2.3	916	208	**PH032**	**IH032**
1283	97	11.76	2.1	966	219	**PH032**	**IH032**
1504	83	13.72	2.1	976	219	**PH032**	**IH032**
1504	78	14.66	1.9	1006	225	**PH032**	**IH032**
1681	68	16.77	1.9	1023	227	**PH032**	**IH032**
1770	63	18.20	1.8	1040	230	**PH032**	**IH032**
1770	57	19.90	1.7	1085	237	**PH032**	**IH032**
1770	50	22.68	1.5	1154	247	**PH032**	**IH032**
1770	48	23.83	1.4	1181	250	**PH032**	**IH032**
1770	43	26.39	1.3	1236	256	**PH032**	**IH032**
1770	38	29.70	1.1	1236	263	**PH032**	**IH032**
1770	35	32.89	1.0	1236	268	**PH032**	**IH032**
1770	30	37.92	0.9	1236	274	**PH032**	**IH032**
1770	28	41.40	0.8	1236	278	**PH032**	**IH032**
1770	24	47.25	0.7	1236	282	**PH032**	**IH032**
1770	21	53.59	0.6	1236	286	**PH033**	**IH033**
1770	17	66.78	0.5	1236	292	**PH033**	**IH033**
1770	15	74.84	0.5	1236	295	**PH033**	**IH033**
1770	11	99.27	0.3	1236	300	**PH033**	**IH033**
1770	11	108.05	0.3	1236	301	**PH033**	**IH033**
1770	9.2	123.71	0.3	1236	303	**PH033**	**IH033**
1770	8.0	143.33	0.2	1236	305	**PH033**	**IH033**
1770	6.4	178.61	0.2	1236	307	**PH033**	**IH033**
1770	5.8	197.17	0.2	1236	308	**PH033**	**IH033**
1770	4.6	245.70	0.1	1236	309	**PH033**	**IH033**
221	793	1.44	2.9	145	224	**H041**	**IH041**
221	570	2.00	2.1	165	247	**H041**	**IH041**
265	448	2.55	1.9	176	251	**H041**	**IH041**
265	420	2.71	1.8	180	254	**H041**	**IH041**
354	367	3.11	2.1	179	246	**H041**	**IH041**
398	318	3.59	2.1	185	247	**H041**	**IH041**
398	271	4.20	1.8	197	256	**H041**	**IH041**
398	228	5.00	1.5	212	264	**H041**	**IH041**
442	207	5.50	1.5	215	264	**H041**	**IH041**
442	187	6.09	1.4	224	268	**H041**	**IH041**
442	149	7.67	1.1	225	276	**H041**	**IH041**
487	130	8.75	1.0	225	277	**H041**	**IH041**



Gear Reducer Ratings – Input Speed 1140 RPM H

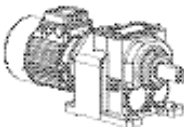
Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
1416	209	5.46	4.9	962	98	**PH042**	**IH042**
1416	159	7.19	3.7	1081	151	**PH042**	**IH042**
1858	128	8.91	3.9	1089	141	**PH042**	**IH042**
2124	111	10.31	3.9	1107	143	**PH042**	**IH042**
2212	97	11.80	3.5	1159	159	**PH042**	**IH042**
2212	84	13.57	3.1	1235	180	**PH042**	**IH042**
2212	71	15.96	2.6	1329	201	**PH042**	**IH042**
2212	60	19.00	2.2	1435	221	**PH042**	**IH042**
2212	54	21.00	2.0	1483	230	**PH042**	**IH042**
2300	49	23.15	1.9	1483	235	**PH042**	**IH042**
2300	44	26.04	1.7	1483	245	**PH042**	**IH042**
2477	41	27.50	1.7	1483	243	**PH042**	**IH042**
2477	37	30.45	1.5	1483	251	**PH042**	**IH042**
2477	33	34.10	1.4	1483	258	**PH042**	**IH042**
2477	30	37.76	1.2	1483	264	**PH042**	**IH042**
2477	26	43.75	1.1	1483	272	**PH042**	**IH042**
2477	24	47.53	1.0	1483	276	**PH042**	**IH042**
2477	21	54.25	0.9	1483	282	**PH042**	**IH042**
2654	18	61.83	0.8	1483	284	**PH043**	**IH043**
2654	15	76.67	0.7	1483	291	**PH043**	**IH043**
2654	13	87.05	0.6	1483	295	**PH043**	**IH043**
2654	10	114.55	0.4	1483	301	**PH043**	**IH043**
2654	9.1	125.69	0.4	1483	303	**PH043**	**IH043**
2654	8.0	142.04	0.4	1483	305	**PH043**	**IH043**
2654	6.9	165.38	0.3	1483	307	**PH043**	**IH043**
2654	5.6	205.07	0.2	1483	310	**PH043**	**IH043**
2654	5.0	227.50	0.2	1483	311	**PH043**	**IH043**
2654	4.0	282.10	0.2	1483	313	**PH043**	**IH043**
354	896	1.27	5.2	362	186	**H051**	**IH051**
531	803	1.42	7.0	357	141	**H051**	**IH051**
531	536	2.13	4.7	416	198	**H051**	**IH051**
619	443	2.57	4.5	437	203	**H051**	**IH051**
708	360	3.17	4.2	463	211	**H051**	**IH051**
796	309	3.69	4.0	481	214	**H051**	**IH051**
796	285	4.00	3.7	497	222	**H051**	**IH051**
841	239	4.77	3.3	527	232	**H051**	**IH051**
885	217	5.25	3.1	542	236	**H051**	**IH051**
885	196	5.82	2.8	562	243	**H051**	**IH051**
885	155	7.33	2.3	562	258	**H051**	**IH051**
885	136	8.38	2.0	562	265	**H051**	**IH051**



MOTOVARIO™

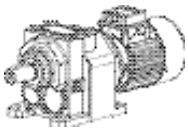
H Gear Reducer Ratings – Input Speed 1140 RPM

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
2300	199	5.73	7.6	1192	58	**PH052**	**IH052**
2566	165	6.89	7.0	1247	77	**PH052**	**IH052**
3008	134	8.53	6.6	1294	89	**PH052**	**IH052**
3274	119	9.56	6.5	1319	96	**PH052**	**IH052**
3451	99	11.51	5.6	1407	123	**PH052**	**IH052**
3805	80	14.24	5.0	1492	144	**PH052**	**IH052**
3982	69	16.59	4.5	1573	161	**PH052**	**IH052**
4070	63	18.00	4.3	1619	170	**PH052**	**IH052**
4070	57	19.97	3.8	1700	184	**PH052**	**IH052**
4159	53	21.67	3.6	1750	192	**PH052**	**IH052**
4159	46	24.71	3.2	1798	207	**PH052**	**IH052**
4336	44	26.18	3.1	1798	209	**PH052**	**IH052**
4336	40	28.44	2.9	1798	217	**PH052**	**IH052**
4336	36	31.52	2.6	1798	227	**PH052**	**IH052**
4336	35	33.00	2.5	1798	231	**PH052**	**IH052**
4336	29	38.98	2.1	1798	243	**PH052**	**IH052**
4336	25	45.36	1.8	1798	253	**PH052**	**IH052**
4336	23	49.13	1.7	1798	258	**PH052**	**IH052**
4336	20	56.11	1.5	1798	265	**PH052**	**IH052**
4424	19	58.81	1.4	1798	266	**PH053**	**IH053**
4424	16	72.75	1.2	1798	276	**PH053**	**IH053**
4424	13	90.51	0.9	1798	283	**PH053**	**IH053**
4424	10	108.95	0.8	1798	288	**PH053**	**IH053**
4424	8.5	134.76	0.6	1798	293	**PH053**	**IH053**
4424	7.2	157.29	0.5	1798	296	**PH053**	**IH053**
4424	5.9	194.56	0.4	1798	300	**PH053**	**IH053**
4424	5.3	216.38	0.4	1798	301	**PH053**	**IH053**
4424	4.3	267.65	0.3	1798	304	**PH053**	**IH053**
708	848	1.34	9.8	540	471	**H061**	**IH061**
1062	536	2.13	9.3	594	481	**H061**	**IH061**
1062	443	2.57	7.7	643	513	**H061**	**IH061**
1150	360	3.17	6.8	687	532	**H061**	**IH061**
1327	309	3.69	6.7	705	533	**H061**	**IH061**
1327	285	4.00	6.2	729	544	**H061**	**IH061**
1416	239	4.77	5.5	772	557	**H061**	**IH061**
1504	217	5.25	5.3	790	561	**H061**	**IH061**
1504	196	5.82	4.8	825	572	**H061**	**IH061**
1504	155	7.33	3.8	832	592	**H061**	**IH061**
1504	136	8.38	3.3	832	601	**H061**	**IH061**



Gear Reducer Ratings – Input Speed 1140 RPM H

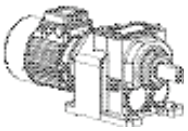
Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
4424	212	5.38	15.5	1927	184	**PH062**	**IH062**
4866	192	5.93	15.5	1947	185	**PH062**	**IH062**
4866	154	7.39	12.4	2148	269	**PH062**	**IH062**
5309	134	8.50	11.8	2218	287	**PH062**	**IH062**
5309	121	9.39	10.7	2317	318	**PH062**	**IH062**
5751	98	11.69	9.3	2485	356	**PH062**	**IH062**
6194	90	12.67	9.2	2509	357	**PH062**	**IH062**
6194	77	14.75	7.9	2686	393	**PH062**	**IH062**
7078	70	16.29	8.2	2674	386	**PH062**	**IH062**
7344	65	17.67	7.8	2697	396	**PH062**	**IH062**
7521	56	20.28	7.0	2697	419	**PH062**	**IH062**
7521	49	23.27	6.1	2697	444	**PH062**	**IH062**
7521	44	25.70	5.5	2697	460	**PH062**	**IH062**
7078	39	29.33	4.5	2697	486	**PH062**	**IH062**
7521	36	32.00	4.4	2697	490	**PH062**	**IH062**
7078	31	36.99	3.6	2697	512	**PH062**	**IH062**
7521	28	40.33	3.5	2697	515	**PH062**	**IH062**
7521	25	46.06	3.1	2697	527	**PH062**	**IH062**
7521	23	49.45	2.9	2697	533	**PH063**	**IH063**
7521	21	54.61	2.7	2697	540	**PH063**	**IH063**
7521	17	68.00	2.1	2697	554	**PH063**	**IH063**
7521	13	85.82	1.7	2697	566	**PH063**	**IH063**
7521	12	94.76	1.5	2697	571	**PH063**	**IH063**
7521	9.7	118.00	1.2	2697	579	**PH063**	**IH063**
7521	8.4	135.40	1.1	2697	583	**PH063**	**IH063**
7521	7.6	149.51	1.0	2697	586	**PH063**	**IH063**
7521	6.7	170.67	0.8	2697	589	**PH063**	**IH063**
7521	6.1	186.18	0.8	2697	591	**PH063**	**IH063**
7521	5.3	215.21	0.7	2697	594	**PH063**	**IH063**
7521	4.9	234.67	0.6	2697	595	**PH063**	**IH063**
7521	4.3	268.00	0.5	2697	597	**PH063**	**IH063**
1770	879	1.30	25.4	574	199	**H081**	**IH081**
1947	798	1.43	25.4	580	199	**H081**	**IH081**
2035	590	1.93	19.7	652	302	**H081**	**IH081**
2477	449	2.54	18.2	688	329	**H081**	**IH081**
2743	351	3.25	15.7	741	372	**H081**	**IH081**
2743	306	3.72	13.7	788	408	**H081**	**IH081**
2831	285	4.00	13.2	804	418	**H081**	**IH081**
2831	244	4.67	11.3	861	452	**H081**	**IH081**
2920	206	5.54	9.8	899	478	**H081**	**IH081**
3008	187	6.08	9.2	899	489	**H081**	**IH081**
3097	152	7.50	7.7	899	516	**H081**	**IH081**
3097	135	8.44	6.8	899	532	**H081**	**IH081**



MOTOVARIO™

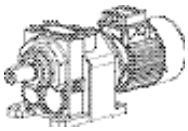
H Gear Reducer Ratings – Input Speed 1140 RPM

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
6194	212	5.39	21.7	2418	176	**PH082**	**IH082**
6194	192	5.95	19.6	2521	220	**PH082**	**IH082**
7078	154	7.39	18.0	2660	255	**PH082**	**IH082**
7078	142	8.02	16.6	2755	285	**PH082**	**IH082**
7963	129	8.85	17.0	2770	278	**PH082**	**IH082**
9733	104	11.01	16.7	2840	284	**PH082**	**IH082**
12387	84	13.50	17.3	2809	271	**PH082**	**IH082**
13272	77	14.90	16.8	2846	282	**PH082**	**IH082**
13272	69	16.62	15.1	3007	320	**PH082**	**IH082**
13272	62	18.53	13.5	3173	353	**PH082**	**IH082**
14157	59	19.38	13.8	3142	348	**PH082**	**IH082**
14157	53	21.39	12.5	3300	376	**PH082**	**IH082**
14157	50	22.80	11.7	3405	393	**PH082**	**IH082**
14157	43	26.60	10.0	3668	429	**PH082**	**IH082**
14157	41	27.88	9.6	3752	439	**PH082**	**IH082**
14157	37	31.15	8.6	3953	461	**PH082**	**IH082**
14157	33	34.38	7.8	4045	478	**PH082**	**IH082**
14157	29	38.70	6.9	4045	497	**PH082**	**IH082**
14157	27	42.75	6.2	4045	512	**PH082**	**IH082**
14157	24	48.13	5.5	4045	527	**PH082**	**IH082**
14157	20	56.53	4.8	4045	545	**PH083**	**IH083**
15927	16	71.48	4.3	4045	556	**PH083**	**IH083**
15927	14	78.87	3.9	4045	565	**PH083**	**IH083**
15927	13	85.56	3.6	4045	571	**PH083**	**IH083**
15927	12	98.09	3.1	4045	581	**PH083**	**IH083**
15927	10	112.78	2.7	4045	590	**PH083**	**IH083**
15927	9.2	124.44	2.5	4045	595	**PH083**	**IH083**
15927	8.0	142.15	2.2	4045	602	**PH083**	**IH083**
15927	7.4	154.76	2.0	4045	605	**PH083**	**IH083**
15927	7.0	162.35	1.9	4045	607	**PH083**	**IH083**
15927	6.4	179.13	1.7	4045	611	**PH083**	**IH083**
15927	5.8	195.07	1.6	4045	614	**PH083**	**IH083**
15927	5.1	222.78	1.4	4045	618	**PH083**	**IH083**
3539	882	1.29	51.1	701	408	**H101**	**IH101**
3982	808	1.41	52.7	699	393	**H101**	**IH101**
3982	561	2.03	36.5	822	545	**H101**	**IH101**
4866	459	2.48	36.6	838	545	**H101**	**IH101**
5309	348	3.27	30.3	920	605	**H101**	**IH101**
5309	308	3.70	26.8	972	638	**H101**	**IH101**
5397	270	4.22	23.8	1025	665	**H101**	**IH101**
5486	234	4.88	21.0	1086	692	**H101**	**IH101**
5486	216	5.27	19.4	1123	707	**H101**	**IH101**
5663	183	6.23	17.0	1124	731	**H101**	**IH101**
5751	151	7.55	14.2	1124	756	**H101**	**IH101**
5751	136	8.40	12.8	1124	770	**H101**	**IH101**



Gear Reducer Ratings – Input Speed 1140 RPM H

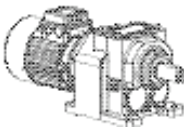
Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
15927	217	5.26	57.0	2634	389	**PH102**	**IH102**
17696	179	6.36	52.5	2731	431	**PH102**	**IH102**
20351	162	7.05	54.4	2630	413	**PH102**	**IH102**
22120	138	8.27	50.4	2708	451	**PH102**	**IH102**
24775	114	9.99	46.7	2764	485	**PH102**	**IH102**
26544	103	11.09	45.1	2773	500	**PH102**	**IH102**
27429	86	13.32	38.8	3021	559	**PH102**	**IH102**
28314	71	16.09	33.2	3300	611	**PH102**	**IH102**
28314	64	17.85	29.9	3510	641	**PH102**	**IH102**
28314	57	19.85	26.9	3732	669	**PH102**	**IH102**
28314	53	21.44	24.9	3898	688	**PH102**	**IH102**
29199	48	23.97	23.0	4061	706	**PH102**	**IH102**
29199	44	25.89	21.3	4239	722	**PH102**	**IH102**
29199	40	28.73	19.2	4484	741	**PH102**	**IH102**
28314	37	30.72	17.4	4733	758	**PH102**	**IH102**
28314	33	34.20	15.6	4944	774	**PH102**	**IH102**
24775	30	38.45	12.1	4944	807	**PH102**	**IH102**
29199	28	41.30	13.3	4944	796	**PH102**	**IH102**
29199	25	45.82	12.0	4944	808	**PH102**	**IH102**
29199	22	51.52	10.7	4944	820	**PH102**	**IH102**
30968	21	55.47	10.7	4944	822	**PH103**	**IH103**
30968	16	69.69	8.6	4944	842	**PH103**	**IH103**
30968	14	79.82	7.5	4944	851	**PH103**	**IH103**
30968	14	84.16	7.1	4944	855	**PH103**	**IH103**
30968	12	93.36	6.4	4944	861	**PH103**	**IH103**
30968	11	100.07	6.0	4944	865	**PH103**	**IH103**
30968	9.4	120.84	4.9	4944	875	**PH103**	**IH103**
30968	8.5	134.06	4.4	4944	879	**PH103**	**IH103**
30968	7.9	143.42	4.2	4944	882	**PH103**	**IH103**
30968	7.1	160.82	3.7	4944	886	**PH103**	**IH103**
30968	6.3	181.07	3.3	4944	889	**PH103**	**IH103**
30968	5.9	194.21	3.1	4944	892	**PH103**	**IH103**
30968	5.3	215.45	2.8	4944	894	**PH103**	**IH103**
31853	4.7	242.59	2.5	4944	896	**PH103**	**IH103**
5751	926	1.23	87.2	837	195	**H121**	**IH121**
6194	805	1.42	81.5	867	240	**H121**	**IH121**
6194	631	1.81	63.9	970	379	**H121**	**IH121**
6636	570	2.00	61.9	990	395	**H121**	**IH121**
7078	460	2.48	53.2	1065	463	**H121**	**IH121**
7078	386	2.95	44.7	1153	531	**H121**	**IH121**
7255	363	3.14	43.1	1175	544	**H121**	**IH121**
7521	319	3.58	39.2	1229	574	**H121**	**IH121**
7521	277	4.12	34.1	1308	615	**H121**	**IH121**
7698	238	4.80	29.9	1348	647	**H121**	**IH121**
7786	219	5.21	27.9	1348	664	**H121**	**IH121**
7963	182	6.25	23.8	1348	696	**H121**	**IH121**
8848	148	7.70	21.4	1348	714	**H121**	**IH121**



MOTOVARIO™

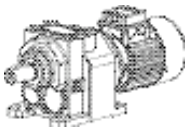
H Gear Reducer Ratings – Input Speed 1140 RPM

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
26544	216	5.27	94.8	3813	175	**PH122**	**IH122**
28314	197	5.78	92.4	3850	194	**PH122**	**IH122**
31853	162	7.05	85.2	3979	249	**PH122**	**IH122**
32738	147	7.74	79.7	4114	292	**PH122**	**IH122**
33623	134	8.48	74.8	4248	330	**PH122**	**IH122**
35392	110	10.35	64.5	4579	409	**PH122**	**IH122**
38932	90	12.66	57.9	4805	459	**PH122**	**IH122**
40701	82	13.86	55.3	4902	479	**PH122**	**IH122**
42471	67	16.92	47.3	5317	541	**PH122**	**IH122**
44240	59	19.32	43.2	5566	573	**PH122**	**IH122**
44240	55	20.57	40.5	5758	593	**PH122**	**IH122**
44240	51	22.52	37.0	6043	620	**PH122**	**IH122**
44240	47	24.47	34.1	6310	643	**PH122**	**IH122**
44240	41	27.49	30.3	6699	672	**PH122**	**IH122**
44240	38	29.86	27.9	6742	690	**PH122**	**IH122**
44240	35	33.00	25.3	6742	711	**PH122**	**IH122**
44240	32	36.13	23.1	6742	728	**PH122**	**IH122**
44240	26	44.10	18.9	6742	760	**PH122**	**IH122**
44240	25	45.77	18.6	6742	765	**PH123**	**IH123**
44240	20	55.87	15.2	6742	791	**PH123**	**IH123**
44240	17	67.32	12.6	6742	810	**PH123**	**IH123**
44240	15	73.71	11.6	6742	818	**PH123**	**IH123**
44240	14	83.34	10.2	6742	828	**PH123**	**IH123**
44240	13	89.97	9.5	6742	834	**PH123**	**IH123**
44240	11	100.29	8.5	6742	841	**PH123**	**IH123**
44240	11	108.34	7.9	6742	846	**PH123**	**IH123**
44240	9.6	118.62	7.2	6742	851	**PH123**	**IH123**
44240	8.9	128.18	6.6	6742	855	**PH123**	**IH123**
44240	7.9	144.79	5.9	6742	861	**PH123**	**IH123**
44240	7.3	155.22	5.5	6742	864	**PH123**	**IH123**
44240	6.6	172.80	4.9	6742	868	**PH123**	**IH123**
44240	6.0	189.19	4.5	6742	872	**PH123**	**IH123**
44240	4.9	230.92	3.7	6742	878	**PH123**	**IH123**
44240	4.4	259.64	3.3	6742	878	**PH123**	**IH123**



Gear Reducer Ratings – Input Speed 1140 RPM H

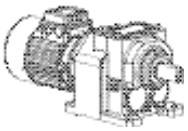
Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
40701	216	5.27	145.4	4873	963	**PH142**	**IH142**
43356	179	6.36	128.6	5177	963	**PH142**	**IH142**
44240	162	7.04	118.4	5402	963	**PH142**	**IH142**
46895	145	7.84	112.7	5517	1204	**PH142**	**IH142**
57512	121	9.45	114.7	5286	1204	**PH142**	**IH142**
63706	109	10.47	114.6	5149	1204	**PH142**	**IH142**
64591	87	13.07	93.1	5840	1228	**PH142**	**IH142**
69015	72	15.75	82.6	6185	1228	**PH142**	**IH142**
69900	65	17.45	75.5	6512	1228	**PH142**	**IH142**
70785	57	20.04	66.6	6997	1228	**PH142**	**IH142**
70785	47	24.15	55.2	7782	1228	**PH142**	**IH142**
70785	43	26.76	49.8	8236	1228	**PH142**	**IH142**
70785	35	32.24	41.4	9099	1228	**PH142**	**IH142**
70785	29	38.85	34.3	10018	1228	**PH142**	**IH142**
70785	26	43.05	31.0	10549	1228	**PH142**	**IH142**
70785	24	48.35	28.2	11170	1926	**PH143**	**IH143**
70785	21	53.53	25.5	11736	1927	**PH143**	**IH143**
70785	19	59.22	23.0	12316	1927	**PH143**	**IH143**
70785	18	62.99	21.6	12360	1927	**PH143**	**IH143**
70785	16	71.35	19.1	12360	1927	**PH143**	**IH143**
70785	14	79.07	17.2	12360	1927	**PH143**	**IH143**
70785	13	86.43	15.8	12360	1928	**PH143**	**IH143**
70785	12	96.21	14.2	12360	1928	**PH143**	**IH143**
70785	11	104.51	13.0	12360	1928	**PH143**	**IH143**
70785	9.8	115.92	11.8	12360	1928	**PH143**	**IH143**
70785	8.9	128.47	10.6	12360	1929	**PH143**	**IH143**
70785	8.2	139.55	9.8	12360	1928	**PH143**	**IH143**
70785	7.4	154.33	8.8	12360	1928	**PH143**	**IH143**
70785	6.1	185.96	7.3	12360	1928	**PH143**	**IH143**
70785	5.5	206.08	6.6	12360	1929	**PH143**	**IH143**



MOTOVARIO™

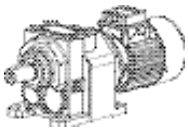
H Gear Reducer Ratings – Input Speed 875 RPM

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
841	186	4.70	2.6	830	157	**PH032**	**IH032**
929	140	6.23	2.2	910	184	**PH032**	**IH032**
1106	113	7.76	2.1	950	190	**PH032**	**IH032**
1150	99	8.87	1.9	994	201	**PH032**	**IH032**
1239	86	10.14	1.8	1029	208	**PH032**	**IH032**
1283	74	11.76	1.6	1086	219	**PH032**	**IH032**
1504	64	13.72	1.6	1101	219	**PH032**	**IH032**
1504	60	14.66	1.5	1134	225	**PH032**	**IH032**
1681	52	16.77	1.5	1157	227	**PH032**	**IH032**
1770	48	18.20	1.4	1178	230	**PH032**	**IH032**
1770	44	19.90	1.3	1227	237	**PH032**	**IH032**
1770	39	22.68	1.1	1236	247	**PH032**	**IH032**
1770	37	23.83	1.1	1236	250	**PH032**	**IH032**
1770	33	26.39	1.0	1236	256	**PH032**	**IH032**
1770	29	29.70	0.9	1236	263	**PH032**	**IH032**
1770	27	32.89	0.8	1236	268	**PH032**	**IH032**
1770	23	37.92	0.7	1236	274	**PH032**	**IH032**
1770	21	41.40	0.6	1236	278	**PH032**	**IH032**
1770	19	47.25	0.5	1236	282	**PH032**	**IH032**
1770	16	53.59	0.5	1236	286	**PH033**	**IH033**
1770	13	66.78	0.4	1236	292	**PH033**	**IH033**
1770	12	74.84	0.3	1236	295	**PH033**	**IH033**
1770	8.8	99.27	0.3	1236	300	**PH033**	**IH033**
1770	8.1	108.05	0.2	1236	301	**PH033**	**IH033**
1770	7.1	123.71	0.2	1236	303	**PH033**	**IH033**
1770	6.1	143.33	0.2	1236	305	**PH033**	**IH033**
1770	4.9	178.61	0.1	1236	307	**PH033**	**IH033**
1770	4.4	197.17	0.1	1236	308	**PH033**	**IH033**
1770	3.6	245.70	0.1	1236	309	**PH033**	**IH033**
221	609	1.44	2.2	161	224	**PH041**	**IH041**
221	438	2.00	1.6	182	247	**PH041**	**IH041**
265	344	2.55	1.5	194	251	**PH041**	**IH041**
265	322	2.71	1.4	199	254	**PH041**	**IH041**
354	282	3.11	1.6	199	246	**PH041**	**IH041**
398	244	3.59	1.6	206	247	**PH041**	**IH041**
398	208	4.20	1.4	219	256	**PH041**	**IH041**
398	175	5.00	1.1	225	264	**PH041**	**IH041**
442	159	5.50	1.2	225	264	**PH041**	**IH041**
442	144	6.09	1.0	225	268	**PH041**	**IH041**
442	114	7.67	0.8	225	276	**PH041**	**IH041**
487	100	8.75	0.8	225	277	**PH041**	**IH041**



Gear Reducer Ratings – Input Speed 875 RPM H

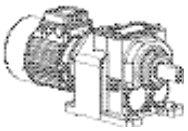
Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
1416	160	5.46	3.7	1077	98	**PH042**	**IH042**
1416	122	7.19	2.8	1207	151	**PH042**	**IH042**
1858	98	8.91	3.0	1225	141	**PH042**	**IH042**
2124	85	10.31	3.0	1248	143	**PH042**	**IH042**
2212	74	11.80	2.7	1307	159	**PH042**	**IH042**
2212	64	13.57	2.4	1391	180	**PH042**	**IH042**
2212	55	15.96	2.0	1483	201	**PH042**	**IH042**
2212	46	19.00	1.7	1483	221	**PH042**	**IH042**
2212	42	21.00	1.5	1483	230	**PH042**	**IH042**
2300	38	23.15	1.4	1483	235	**PH042**	**IH042**
2300	34	26.04	1.3	1483	245	**PH042**	**IH042**
2477	32	27.50	1.3	1483	243	**PH042**	**IH042**
2477	29	30.45	1.2	1483	251	**PH042**	**IH042**
2477	26	34.10	1.1	1483	258	**PH042**	**IH042**
2477	23	37.76	0.9	1483	264	**PH042**	**IH042**
2477	20	43.75	0.8	1483	272	**PH042**	**IH042**
2477	18	47.53	0.8	1483	276	**PH042**	**IH042**
2477	16	54.25	0.7	1483	282	**PH042**	**IH042**
2654	14	61.83	0.6	1483	284	**PH043**	**IH043**
2654	11	76.67	0.5	1483	291	**PH043**	**IH043**
2654	10	87.05	0.5	1483	295	**PH043**	**IH043**
2654	7.6	114.55	0.3	1483	301	**PH043**	**IH043**
2654	7.0	125.69	0.3	1483	303	**PH043**	**IH043**
2654	6.2	142.04	0.3	1483	305	**PH043**	**IH043**
2654	5.3	165.38	0.2	1483	307	**PH043**	**IH043**
2654	4.3	205.07	0.2	1483	310	**PH043**	**IH043**
2654	3.8	227.50	0.2	1483	311	**PH043**	**IH043**
2654	3.1	282.10	0.1	1483	313	**PH043**	**IH043**
354	688	1.27	4.0	398	186	**PH051**	**IH051**
531	616	1.42	5.4	395	141	**PH051**	**IH051**
531	412	2.13	3.6	459	198	**PH051**	**IH051**
619	340	2.57	3.4	483	203	**PH051**	**IH051**
708	276	3.17	3.2	512	211	**PH051**	**IH051**
796	237	3.69	3.1	533	214	**PH051**	**IH051**
796	219	4.00	2.9	550	222	**PH051**	**IH051**
841	183	4.77	2.5	562	232	**PH051**	**IH051**
885	167	5.25	2.4	562	236	**PH051**	**IH051**
885	150	5.82	2.2	562	243	**PH051**	**IH051**
885	119	7.33	1.7	562	258	**PH051**	**IH051**
885	104	8.38	1.5	562	265	**PH051**	**IH051**



MOTOVARIO™

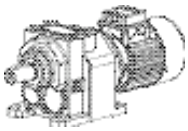
H Gear Reducer Ratings – Input Speed 875 RPM

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
2300	153	5.73	5.8	1337	58	**PH052**	**IH052**
2566	127	6.89	5.4	1401	77	**PH052**	**IH052**
3008	103	8.53	5.1	1459	89	**PH052**	**IH052**
3274	92	9.56	5.0	1490	96	**PH052**	**IH052**
3451	76	11.51	4.3	1589	123	**PH052**	**IH052**
3805	61	14.24	3.9	1687	144	**PH052**	**IH052**
3982	53	16.59	3.5	1778	161	**PH052**	**IH052**
4070	49	18.00	3.3	1798	170	**PH052**	**IH052**
4070	44	19.97	2.9	1798	184	**PH052**	**IH052**
4159	40	21.67	2.8	1798	192	**PH052**	**IH052**
4159	35	24.71	2.4	1798	207	**PH052**	**IH052**
4336	33	26.18	2.4	1798	209	**PH052**	**IH052**
4336	31	28.44	2.2	1798	217	**PH052**	**IH052**
4336	28	31.52	2.0	1798	227	**PH052**	**IH052**
4336	27	33.00	1.9	1798	231	**PH052**	**IH052**
4336	22	38.98	1.6	1798	243	**PH052**	**IH052**
4336	19	45.36	1.4	1798	253	**PH052**	**IH052**
4336	18	49.13	1.3	1798	258	**PH052**	**IH052**
4336	16	56.11	1.1	1798	265	**PH052**	**IH052**
4424	15	58.81	1.1	1798	266	**PH053**	**IH053**
4424	12	72.75	0.9	1798	276	**PH053**	**IH053**
4424	9.7	90.51	0.7	1798	283	**PH053**	**IH053**
4424	8.0	108.95	0.6	1798	288	**PH053**	**IH053**
4424	6.5	134.76	0.5	1798	293	**PH053**	**IH053**
4424	5.6	157.29	0.4	1798	296	**PH053**	**IH053**
4424	4.5	194.56	0.3	1798	300	**PH053**	**IH053**
4424	4.0	216.38	0.3	1798	301	**PH053**	**IH053**
4424	3.3	267.65	0.2	1798	304	**PH053**	**IH053**
708	651	1.34	7.5	599	471	**PH061**	**IH061**
1062	412	2.13	7.2	662	481	**PH061**	**IH061**
1062	340	2.57	5.9	715	513	**PH061**	**IH061**
1150	276	3.17	5.2	764	532	**PH061**	**IH061**
1327	237	3.69	5.2	787	533	**PH061**	**IH061**
1327	219	4.00	4.8	813	544	**PH061**	**IH061**
1416	183	4.77	4.2	832	557	**PH061**	**IH061**
1504	167	5.25	4.1	832	561	**PH061**	**IH061**
1504	150	5.82	3.7	832	572	**PH061**	**IH061**
1504	119	7.33	2.9	832	592	**PH061**	**IH061**
1504	104	8.38	2.6	832	601	**PH061**	**IH061**



Gear Reducer Ratings – Input Speed 875 RPM H

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	163	5.38	11.9	2162	184	**PH062**	**IH062**
4866	147	5.93	11.9	2191	185	**PH062**	**IH062**
4866	118	7.39	9.5	2409	269	**PH062**	**IH062**
5309	103	8.50	9.0	2492	287	**PH062**	**IH062**
5309	93	9.39	8.2	2600	318	**PH062**	**IH062**
5751	75	11.69	7.1	2697	356	**PH062**	**IH062**
6194	69	12.67	7.1	2697	357	**PH062**	**IH062**
6194	59	14.75	6.1	2697	393	**PH062**	**IH062**
7078	54	16.29	6.3	2697	386	**PH062**	**IH062**
7344	50	17.67	6.0	2697	396	**PH062**	**IH062**
7521	43	20.28	5.4	2697	419	**PH062**	**IH062**
7521	38	23.27	4.7	2697	444	**PH062**	**IH062**
7521	34	25.70	4.2	2697	460	**PH062**	**IH062**
7078	30	29.33	3.5	2697	486	**PH062**	**IH062**
7521	27	32.00	3.4	2697	490	**PH062**	**IH062**
7078	24	36.99	2.8	2697	512	**PH062**	**IH062**
7521	22	40.33	2.7	2697	515	**PH062**	**IH062**
7521	19	46.06	2.4	2697	527	**PH062**	**IH062**
7521	18	49.45	2.2	2697	533	**PH063**	**IH063**
7521	16	54.61	2.0	2697	540	**PH063**	**IH063**
7521	13	68.00	1.6	2697	554	**PH063**	**IH063**
7521	10	85.82	1.3	2697	566	**PH063**	**IH063**
7521	9.2	94.76	1.2	2697	571	**PH063**	**IH063**
7521	7.4	118.00	0.9	2697	579	**PH063**	**IH063**
7521	6.5	135.40	0.8	2697	583	**PH063**	**IH063**
7521	5.9	149.51	0.7	2697	586	**PH063**	**IH063**
7521	5.1	170.67	0.7	2697	589	**PH063**	**IH063**
7521	4.7	186.18	0.6	2697	591	**PH063**	**IH063**
7521	4.1	215.21	0.5	2697	594	**PH063**	**IH063**
7521	3.7	234.67	0.5	2697	595	**PH063**	**IH063**
7521	3.3	268.00	0.4	2697	597	**PH063**	**IH063**
1770	674	1.30	19.5	642	199	**PH081**	**IH081**
1947	613	1.43	19.5	651	199	**PH081**	**IH081**
2035	453	1.93	15.1	731	302	**PH081**	**IH081**
2477	344	2.54	14.0	775	329	**PH081**	**IH081**
2743	269	3.25	12.1	834	372	**PH081**	**IH081**
2743	235	3.72	10.5	885	408	**PH081**	**IH081**
2831	219	4.00	10.1	899	418	**PH081**	**IH081**
2831	188	4.67	8.7	899	452	**PH081**	**IH081**
2920	158	5.54	7.5	899	478	**PH081**	**IH081**
3008	144	6.08	7.1	899	489	**PH081**	**IH081**
3097	117	7.50	5.9	899	516	**PH081**	**IH081**
3097	104	8.44	5.3	899	532	**PH081**	**IH081**



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H 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
6194	162	5.39	16.6	2704	176	**PH082**	**IH082**
6194	147	5.95	15.1	2817	220	**PH082**	**IH082**
7078	118	7.39	13.8	2978	255	**PH082**	**IH082**
7078	109	8.02	12.8	3081	285	**PH082**	**IH082**
7963	99	8.85	13.0	3107	278	**PH082**	**IH082**
9733	79	11.01	12.8	3202	284	**PH082**	**IH082**
12387	65	13.50	13.3	3196	271	**PH082**	**IH082**
13272	59	14.90	12.9	3246	282	**PH082**	**IH082**
13272	53	16.62	11.6	3422	320	**PH082**	**IH082**
13272	47	18.53	10.4	3603	353	**PH082**	**IH082**
14157	45	19.38	10.6	3578	348	**PH082**	**IH082**
14157	41	21.39	9.6	3751	376	**PH082**	**IH082**
14157	38	22.80	9.0	3866	393	**PH082**	**IH082**
14157	33	26.60	7.7	4045	429	**PH082**	**IH082**
14157	31	27.88	7.3	4045	439	**PH082**	**IH082**
14157	28	31.15	6.6	4045	461	**PH082**	**IH082**
14157	25	34.38	6.0	4045	478	**PH082**	**IH082**
14157	23	38.70	5.3	4045	497	**PH082**	**IH082**
14157	20	42.75	4.8	4045	512	**PH082**	**IH082**
14157	18	48.13	4.3	4045	527	**PH082**	**IH082**
14157	15	56.53	3.7	4045	545	**PH083**	**IH083**
15927	12	71.48	3.3	4045	556	**PH083**	**IH083**
15927	11	78.87	3.0	4045	565	**PH083**	**IH083**
15927	10	85.56	2.8	4045	571	**PH083**	**IH083**
15927	8.9	98.09	2.4	4045	581	**PH083**	**IH083**
15927	7.8	112.78	2.1	4045	590	**PH083**	**IH083**
15927	7.0	124.44	1.9	4045	595	**PH083**	**IH083**
15927	6.2	142.15	1.7	4045	602	**PH083**	**IH083**
15927	5.7	154.76	1.5	4045	605	**PH083**	**IH083**
15927	5.4	162.35	1.4	4045	607	**PH083**	**IH083**
15927	4.9	179.13	1.3	4045	611	**PH083**	**IH083**
15927	4.5	195.07	1.2	4045	614	**PH083**	**IH083**
15927	3.9	222.78	1.1	4045	618	**PH083**	**IH083**
3539	677	1.29	39.2	786	408	**PH101**	**IH101**
3982	620	1.41	40.4	787	393	**PH101**	**IH101**
3982	431	2.03	28.0	920	545	**PH101**	**IH101**
4866	353	2.48	28.1	943	545	**PH101**	**IH101**
5309	267	3.27	23.2	1035	605	**PH101**	**IH101**
5309	236	3.70	20.5	1092	638	**PH101**	**IH101**
5397	207	4.22	18.3	1124	665	**PH101**	**IH101**
5486	179	4.88	16.1	1124	692	**PH101**	**IH101**
5486	166	5.27	14.9	1124	707	**PH101**	**IH101**
5663	140	6.23	13.0	1124	731	**PH101**	**IH101**
5751	116	7.55	10.9	1124	756	**PH101**	**IH101**
5751	104	8.40	9.8	1124	770	**PH101**	**IH101**

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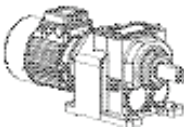
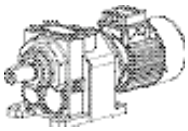


Gear Reducer Ratings – Input Speed 875 RPM H

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
15927	166	5.26	43.8	3014	389	**PH102**	**IH102**
17696	138	6.36	40.3	3136	431	**PH102**	**IH102**
20351	124	7.05	41.7	3049	413	**PH102**	**IH102**
22120	106	8.27	38.7	3150	451	**PH102**	**IH102**
24775	88	9.99	35.9	3233	485	**PH102**	**IH102**
26544	79	11.09	34.6	3259	500	**PH102**	**IH102**
27429	66	13.32	29.8	3538	559	**PH102**	**IH102**
28314	54	16.09	25.5	3849	611	**PH102**	**IH102**
28314	49	17.85	22.9	4078	641	**PH102**	**IH102**
28314	44	19.85	20.6	4321	669	**PH102**	**IH102**
28314	41	21.44	19.1	4503	688	**PH102**	**IH102**
29199	37	23.97	17.6	4688	706	**PH102**	**IH102**
29199	34	25.89	16.3	4882	722	**PH102**	**IH102**
29199	30	28.73	14.7	4944	741	**PH102**	**IH102**
28314	28	30.72	13.3	4944	758	**PH102**	**IH102**
28314	26	34.20	12.0	4944	774	**PH102**	**IH102**
24775	23	38.45	9.3	4944	807	**PH102**	**IH102**
29199	21	41.30	10.2	4944	796	**PH102**	**IH102**
29199	19	45.82	9.2	4944	808	**PH102**	**IH102**
29199	17	51.52	8.2	4944	820	**PH102**	**IH102**
30968	16	55.47	8.2	4944	822	**PH103**	**IH103**
30968	13	69.69	6.6	4944	842	**PH103**	**IH103**
30968	11	79.82	5.7	4944	851	**PH103**	**IH103**
30968	10	84.16	5.4	4944	855	**PH103**	**IH103**
30968	9.4	93.36	4.9	4944	861	**PH103**	**IH103**
30968	8.7	100.07	4.6	4944	865	**PH103**	**IH103**
30968	7.2	120.84	3.8	4944	875	**PH103**	**IH103**
30968	6.5	134.06	3.4	4944	879	**PH103**	**IH103**
30968	6.1	143.42	3.2	4944	882	**PH103**	**IH103**
30968	5.4	160.82	2.8	4944	886	**PH103**	**IH103**
30968	4.8	181.07	2.5	4944	889	**PH103**	**IH103**
30968	4.5	194.21	2.4	4944	892	**PH103**	**IH103**
30968	4.1	215.45	2.1	4944	894	**PH103**	**IH103**
31853	3.6	242.59	1.9	4944	896	**PH103**	**IH103**
5751	711	1.23	66.9	944	195	**PH121**	**IH121**
6194	618	1.42	62.6	979	240	**PH121**	**IH121**
6194	484	1.81	49.1	1091	379	**PH121**	**IH121**
6636	438	2.00	47.5	1115	395	**PH121**	**IH121**
7078	353	2.48	40.9	1200	463	**PH121**	**IH121**
7078	296	2.95	34.3	1295	531	**PH121**	**IH121**
7255	278	3.14	33.0	1320	544	**PH121**	**IH121**
7521	244	3.58	30.1	1348	574	**PH121**	**IH121**
7521	213	4.12	26.1	1348	615	**PH121**	**IH121**
7698	182	4.80	23.0	1348	647	**PH121**	**IH121**
7786	168	5.21	21.4	1348	664	**PH121**	**IH121**
7963	140	6.25	18.2	1348	696	**PH121**	**IH121**
8848	114	7.70	16.5	1348	714	**PH121**	**IH121**



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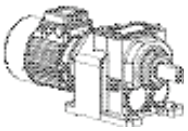
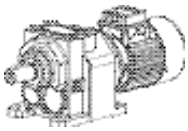
H Gear Reducer Ratings – Input Speed 875 RPM

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
26544	166	5.27	72.8	4359	175	**PH122**	**IH122**
28314	152	5.78	70.9	4412	194	**PH122**	**IH122**
31853	124	7.05	65.4	4580	249	**PH122**	**IH122**
32738	113	7.74	61.2	4734	292	**PH122**	**IH122**
33623	103	8.48	57.4	4886	330	**PH122**	**IH122**
35392	85	10.35	49.5	5261	409	**PH122**	**IH122**
38932	69	12.66	44.5	5533	459	**PH122**	**IH122**
40701	63	13.86	42.5	5653	479	**PH122**	**IH122**
42471	52	16.92	36.3	6119	541	**PH122**	**IH122**
44240	45	19.32	33.1	6404	573	**PH122**	**IH122**
44240	43	20.57	31.1	6613	593	**PH122**	**IH122**
44240	39	22.52	28.4	6742	620	**PH122**	**IH122**
44240	36	24.47	26.2	6742	643	**PH122**	**IH122**
44240	32	27.49	23.3	6742	672	**PH122**	**IH122**
44240	29	29.86	21.4	6742	690	**PH122**	**IH122**
44240	27	33.00	19.4	6742	711	**PH122**	**IH122**
44240	24	36.13	17.7	6742	728	**PH122**	**IH122**
44240	20	44.10	14.5	6742	760	**PH122**	**IH122**
44240	19	45.77	14.3	6742	765	**PH123**	**IH123**
44240	16	55.87	11.7	6742	791	**PH123**	**IH123**
44240	13	67.32	9.7	6742	810	**PH123**	**IH123**
44240	12	73.71	8.9	6742	818	**PH123**	**IH123**
44240	10	83.34	7.8	6742	828	**PH123**	**IH123**
44240	9.7	89.97	7.3	6742	834	**PH123**	**IH123**
44240	8.7	100.29	6.5	6742	841	**PH123**	**IH123**
44240	8.1	108.34	6.0	6742	846	**PH123**	**IH123**
44240	7.4	118.62	5.5	6742	851	**PH123**	**IH123**
44240	6.8	128.18	5.1	6742	855	**PH123**	**IH123**
44240	6.0	144.79	4.5	6742	861	**PH123**	**IH123**
44240	5.6	155.22	4.2	6742	864	**PH123**	**IH123**
44240	5.1	172.80	3.8	6742	868	**PH123**	**IH123**
44240	4.6	189.19	3.5	6742	872	**PH123**	**IH123**
44240	3.8	230.92	2.8	6742	878	**PH123**	**IH123**
44240	3.4	259.64	2.5	6742	878	**PH123**	**IH123**



Gear Reducer Ratings – Input Speed 875 RPM H

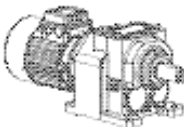
Maximum Torque in lbs	Output Speed RPM	Exact Ratio i	Maximum Power HP	OHL Output Shaft lbs.	OHL Input Shaft lbs.	Gear Reducer Motorized Input	Gear Reducer Shaft Input
40701	166	5.27	111.6	5600	963	**PH142**	**IH142**
43356	138	6.36	98.7	5950	963	**PH142**	**IH142**
44240	124	7.04	90.9	6202	963	**PH142**	**IH142**
46895	112	7.84	86.5	6345	1204	**PH142**	**IH142**
57512	93	9.45	88.0	6167	1204	**PH142**	**IH142**
63706	84	10.47	88.0	6060	1204	**PH142**	**IH142**
64591	67	13.07	71.5	6820	1228	**PH142**	**IH142**
69015	56	15.75	63.4	7228	1228	**PH142**	**IH142**
69900	50	17.45	57.9	7591	1228	**PH142**	**IH142**
70785	44	20.04	51.1	8126	1228	**PH142**	**IH142**
70785	36	24.15	42.4	8983	1228	**PH142**	**IH142**
70785	33	26.76	38.3	9478	1228	**PH142**	**IH142**
70785	27	32.24	31.8	10420	1228	**PH142**	**IH142**
70785	23	38.85	26.4	11423	1228	**PH142**	**IH142**
70785	20	43.05	23.8	12002	1228	**PH142**	**IH142**
70785	18	48.35	21.6	12360	1926	**PH143**	**IH143**
70785	16	53.53	19.5	12360	1927	**PH143**	**IH143**
70785	15	59.22	17.7	12360	1927	**PH143**	**IH143**
70785	14	62.99	16.6	12360	1927	**PH143**	**IH143**
70785	12	71.35	14.7	12360	1927	**PH143**	**IH143**
70785	11	79.07	13.2	12360	1927	**PH143**	**IH143**
70785	10	86.43	12.1	12360	1928	**PH143**	**IH143**
70785	9.1	96.21	10.9	12360	1928	**PH143**	**IH143**
70785	8.4	104.51	10.0	12360	1928	**PH143**	**IH143**
70785	7.5	115.92	9.0	12360	1928	**PH143**	**IH143**
70785	6.8	128.47	8.1	12360	1929	**PH143**	**IH143**
70785	6.3	139.55	7.5	12360	1928	**PH143**	**IH143**
70785	5.7	154.33	6.8	12360	1928	**PH143**	**IH143**
70785	4.7	185.96	5.6	12360	1928	**PH143**	**IH143**
70785	4.2	206.08	5.1	12360	1929	**PH143**	**IH143**



MOTOVARIO™

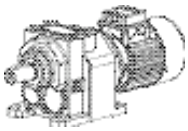
H Gearmotor Ratings – Motor Speed 1750 RPM

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
0.16	1217	27.5	8	1.44	221	123	-	-	**PH041**	56C
	875	19.8	11	2.00	221	140	-	-	**PH041**	56C
	688	18.7	14	2.55	265	148	-	-	**PH041**	56C
	645	17.5	15	2.71	265	152	-	-	**PH041**	56C
	564	20.4	17	3.11	354	150	-	-	**PH041**	56C
	488	19.9	20	3.59	398	154	-	-	**PH041**	56C
	417	17.0	23	4.20	398	165	-	-	**PH041**	56C
	350	14.3	28	5.00	398	177	-	-	**PH041**	56C
	318	14.4	31	5.50	442	179	-	-	**PH041**	56C
	287	13.0	34	6.09	442	187	-	-	**PH041**	56C
	281	27.0	34	6.23	929	673	-	-	**PH032**	56C
	228	10.3	43	7.67	442	206	-	-	**PH041**	56C
	200	10.0	49	8.75	487	213	-	-	**PH041**	56C
	173	22.1	56	10.14	1239	752	-	-	**PH032**	56C
	149	19.7	65	11.76	1283	794	-	-	**PH032**	56C
	128	19.8	76	13.72	1504	795	-	-	**PH032**	56C
	119	18.6	81	14.66	1504	821	-	-	**PH032**	56C
	104	18.1	93	16.77	1681	830	-	-	**PH032**	56C
	96	17.6	101	18.20	1770	841	-	-	**PH032**	56C
	88	16.1	110	19.90	1770	880	-	-	**PH032**	56C
	77	14.1	125	22.68	1770	940	-	-	**PH032**	56C
	73	13.4	132	23.83	1770	963	-	-	**PH032**	56C
	66	12.1	146	26.39	1770	1012	-	-	**PH032**	56C
	59	10.8	164	29.70	1770	1071	-	-	**PH032**	56C
	53	9.7	182	32.89	1770	1124	-	-	**PH032**	56C
	46	8.4	210	37.92	1770	1200	-	-	**PH032**	56C
	42	7.7	229	41.40	1770	1236	-	-	**PH032**	56C
	37	6.8	261	47.25	1770	1236	-	-	**PH032**	56C
	33	6.1	290	53.59	1770	1236	**CH033**	63A4	**PH033**	56C
	26	4.9	362	66.78	1770	1236	**CH033**	63A4	**PH033**	56C
	23	4.4	405	74.84	1770	1236	**CH033**	63A4	**PH033**	56C
	18	3.3	538	99.27	1770	1236	**CH033**	63A4	**PH033**	56C
	16	3.0	585	108.05	1770	1236	**CH033**	63A4	**PH033**	56C
	14	2.6	670	123.71	1770	1236	**CH033**	63A4	**PH033**	56C
	12	2.3	776	143.33	1770	1236	**CH033**	63A4	**PH033**	56C
	12	3.5	769	142.04	2654	1483	**CH043**	63A4	**PH043**	56C
	11	3.0	896	165.38	2654	1483	**CH043**	63A4	**PH043**	56C
	9.8	1.8	967	178.61	1770	1236	**CH033**	63A4	**PH033**	56C
	8.9	1.7	1068	197.17	1770	1236	**CH033**	63A4	**PH033**	56C
	8.5	2.4	1110	205.07	2654	1483	**CH043**	63A4	**PH043**	56C
	7.7	2.2	1232	227.50	2654	1483	**CH043**	63A4	**PH043**	56C
	7.1	1.3	1331	245.70	1770	1236	**CH033**	63A4	**PH033**	56C
	6.5	3.1	1449	267.65	4424	1798	**CH053**	63A4	**PH053**	56C
	6.2	1.7	1528	282.10	2654	1483	**CH043**	63A4	**PH043**	56C



Gearmotor Ratings – Motor Speed 1750 RPM H

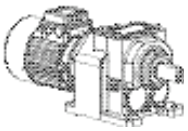
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
0.25	1217	17.6	13	1.44	221	123	-	-	**PH041**	56C
	875	12.7	17	2.00	221	140	-	-	**PH041**	56C
	688	11.9	22	2.55	265	148	-	-	**PH041**	56C
	645	11.2	24	2.71	265	152	-	-	**PH041**	56C
	564	13.1	27	3.11	354	150	-	-	**PH041**	56C
	488	12.7	31	3.59	398	154	-	-	**PH041**	56C
	417	10.9	37	4.20	398	165	-	-	**PH041**	56C
	350	9.1	44	5.00	398	177	-	-	**PH041**	56C
	318	9.2	48	5.50	442	179	-	-	**PH041**	56C
	287	8.3	53	6.09	442	187	-	-	**PH041**	56C
	281	17.3	54	6.23	929	673	-	-	**PH032**	56C
	228	6.6	67	7.67	442	206	-	-	**PH041**	56C
	200	6.4	76	8.75	487	213	-	-	**PH041**	56C
	173	14.1	88	10.14	1239	752	-	-	**PH032**	56C
	149	12.6	102	11.76	1283	794	-	-	**PH032**	56C
	128	12.7	119	13.72	1504	795	-	-	**PH032**	56C
	119	11.9	127	14.66	1504	821	-	-	**PH032**	56C
	104	11.6	145	16.77	1681	830	-	-	**PH032**	56C
	96	11.3	157	18.20	1770	841	-	-	**PH032**	56C
	88	10.3	172	19.90	1770	880	-	-	**PH032**	56C
	77	9.0	196	22.68	1770	940	-	-	**PH032**	56C
	73	8.6	206	23.83	1770	963	-	-	**PH032**	56C
	66	7.8	228	26.39	1770	1012	-	-	**PH032**	56C
	59	6.9	257	29.70	1770	1071	-	-	**PH032**	56C
	53	6.2	284	32.89	1770	1124	-	-	**PH032**	56C
	46	5.4	328	37.92	1770	1200	-	-	**PH032**	56C
	42	4.9	358	41.40	1770	1236	-	-	**PH032**	56C
	37	4.3	408	47.25	1770	1236	-	-	**PH032**	56C
	33	3.9	453	53.59	1770	1236	**CH033**	63B4	**PH033**	56C
	26	3.1	565	66.78	1770	1236	**CH033**	63B4	**PH033**	56C
	23	2.8	633	74.84	1770	1236	**CH033**	63B4	**PH033**	56C
	20	3.4	737	87.05	2477	1483	**CH043**	63B4	**PH043**	56C
	18	2.1	840	99.27	1770	1236	**CH033**	63B4	**PH033**	56C
	16	1.9	914	108.05	1770	1236	**CH033**	63B4	**PH033**	56C
	15	2.7	969	114.55	2654	1483	**CH043**	63B4	**PH043**	56C
	14	1.7	1047	123.71	1770	1236	**CH033**	63B4	**PH033**	56C
	14	2.5	1063	125.69	2654	1483	**CH043**	63B4	**PH043**	56C
	12	1.5	1213	143.33	1770	1236	**CH033**	63B4	**PH033**	56C
	12	2.2	1202	142.04	2654	1483	**CH043**	63B4	**PH043**	56C
	11	1.9	1399	165.38	2654	1483	**CH043**	63B4	**PH043**	56C
	11	3.3	1331	157.29	4424	1798	**CH053**	63B4	**PH053**	56C
	9.8	1.2	1511	178.61	1770	1236	**CH033**	63B4	**PH033**	56C
	9.0	2.7	1646	194.56	4424	1798	**CH053**	63B4	**PH053**	56C
	8.9	1.1	1668	197.17	1770	1236	**CH033**	63B4	**PH033**	56C
	8.5	1.5	1735	205.07	2654	1483	**CH043**	63B4	**PH043**	56C



MOTOVARIO™

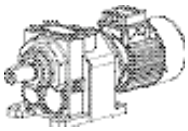
H Gearmotor Ratings – Motor Speed 1750 RPM

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
0.25	8.1	2.4	1831	216.38	4424	1798	**CH053**	63B4	**PH053**	56C
	7.7	1.4	1925	227.50	2654	1483	**CH043**	63B4	**PH043**	56C
	6.5	2.0	2265	267.65	4424	1798	**CH053**	63B4	**PH053**	56C
	6.5	3.3	2268	268.00	7521	2697	-	-	**PH063**	56C
	6.2	1.1	2387	282.10	2654	1483	**CH043**	63B4	**PH043**	56C
0.33	1217	13.4	17	1.44	221	123	**CH041**	71A4	**PH041**	56C
	875	9.6	23	2.00	221	140	**CH041**	71A4	**PH041**	56C
	688	9.0	29	2.55	265	148	**CH041**	71A4	**PH041**	56C
	645	8.5	31	2.71	265	152	**CH041**	71A4	**PH041**	56C
	564	9.9	36	3.11	354	150	**CH041**	71A4	**PH041**	56C
	488	9.6	41	3.59	398	154	**CH041**	71A4	**PH041**	56C
	417	8.2	48	4.20	398	165	**CH041**	71A4	**PH041**	56C
	350	6.9	58	5.00	398	177	**CH041**	71A4	**PH041**	56C
	318	7.0	63	5.50	442	179	**CH041**	71A4	**PH041**	56C
	287	6.3	70	6.09	442	187	**CH041**	71A4	**PH041**	56C
	228	5.0	88	7.67	442	206	**CH041**	71A4	**PH041**	56C
	200	4.8	101	8.75	487	213	**CH041**	71A4	**PH041**	56C
	173	10.7	116	10.14	1239	752	**CH032**	71A4	**PH032**	56C
	149	9.6	134	11.76	1283	794	**CH032**	71A4	**PH032**	56C
	128	9.6	157	13.72	1504	795	**CH032**	71A4	**PH032**	56C
	119	9.0	167	14.66	1504	821	**CH032**	71A4	**PH032**	56C
	104	8.8	191	16.77	1681	830	**CH032**	71A4	**PH032**	56C
	96	8.5	208	18.20	1770	841	**CH032**	71A4	**PH032**	56C
	88	7.8	227	19.90	1770	880	**CH032**	71A4	**PH032**	56C
	77	6.8	259	22.68	1770	940	**CH032**	71A4	**PH032**	56C
	73	6.5	272	23.83	1770	963	**CH032**	71A4	**PH032**	56C
	66	5.9	301	26.39	1770	1012	**CH032**	71A4	**PH032**	56C
	59	5.2	339	29.70	1770	1071	**CH032**	71A4	**PH032**	56C
	53	4.7	375	32.89	1770	1124	**CH032**	71A4	**PH032**	56C
	46	4.1	433	37.92	1770	1200	**CH032**	71A4	**PH032**	56C
	42	3.7	472	41.40	1770	1236	**CH032**	71A4	**PH032**	56C
	37	3.3	539	47.25	1770	1236	**CH032**	71A4	**PH032**	56C
	33	3.0	599	53.59	1770	1236	**CH033**	71A4	**PH033**	56C
	28	3.6	691	61.83	2477	1483	**CH043**	71A4	**PH043**	56C
	26	2.4	746	66.78	1770	1236	**CH033**	71A4	**PH033**	56C
	23	2.1	836	74.84	1770	1236	**CH033**	71A4	**PH033**	56C
	23	2.9	856	76.67	2477	1483	**CH043**	71A4	**PH043**	56C
	20	2.5	972	87.05	2477	1483	**CH043**	71A4	**PH043**	56C
	18	1.6	1109	99.27	1770	1236	**CH033**	71A4	**PH033**	56C
	16	1.5	1207	108.05	1770	1236	**CH033**	71A4	**PH033**	56C
	16	3.6	1217	108.95	4424	1798	**CH053**	71A4	**PH053**	56C
	15	2.1	1279	114.55	2654	1483	**CH043**	71A4	**PH043**	56C
	14	1.3	1382	123.71	1770	1236	**CH033**	71A4	**PH033**	56C
	14	1.9	1404	125.69	2654	1483	**CH043**	71A4	**PH043**	56C
	13	2.9	1505	134.76	4424	1798	**CH053**	71A4	**PH053**	56C



Gearmotor Ratings – Motor Speed 1750 RPM H

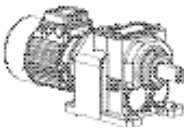
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
0.33	12	1.1	1601	143.33	1770	1236	**CH033**	71A4	**PH033**	56C
	12	1.7	1586	142.04	2654	1483	**CH043**	71A4	**PH043**	56C
	11	1.4	1847	165.38	2654	1483	**CH043**	71A4	**PH043**	56C
	11	2.5	1757	157.29	4424	1798	**CH053**	71A4	**PH053**	56C
	9.4	3.6	2079	186.18	7521	2697	**CH063**	71A4	**PH063**	56C
	9.0	2.0	2173	194.56	4424	1798	**CH053**	71A4	**PH053**	56C
	8.5	1.2	2290	205.07	2654	1483	**CH043**	71A4	**PH043**	56C
	8.1	1.8	2417	216.38	4424	1798	**CH053**	71A4	**PH053**	56C
	8.1	3.1	2404	215.21	7521	2697	**CH063**	71A4	**PH063**	56C
	7.5	2.9	2621	234.67	7521	2697	**CH063**	71A4	**PH063**	56C
	6.5	1.5	2989	267.65	4424	1798	**CH053**	71A4	**PH053**	56C
	6.5	2.5	2993	268.00	7521	2697	**CH063**	71A4	**PH063**	56C
0.5	1217	8.8	25	1.44	221	123	**CH041**	71B4	**PH041**	56C
	875	6.3	35	2.00	221	140	**CH041**	71B4	**PH041**	56C
	688	6.0	44	2.55	265	148	**CH041**	71B4	**PH041**	56C
	645	5.6	47	2.71	265	152	**CH041**	71B4	**PH041**	56C
	564	6.5	54	3.11	354	150	**CH041**	71B4	**PH041**	56C
	488	6.4	63	3.59	398	154	**CH041**	71B4	**PH041**	56C
	417	5.4	73	4.20	398	165	**CH041**	71B4	**PH041**	56C
	350	4.6	87	5.00	398	177	**CH041**	71B4	**PH041**	56C
	318	4.6	96	5.50	442	179	**CH041**	71B4	**PH041**	56C
	287	4.2	106	6.09	442	187	**CH041**	71B4	**PH041**	56C
	228	3.3	134	7.67	442	206	**CH041**	71B4	**PH041**	56C
	200	3.2	153	8.75	487	213	**CH041**	71B4	**PH041**	56C
	173	7.1	175	10.14	1239	752	**CH032**	71B4	**PH032**	56C
	149	6.3	203	11.76	1283	794	**CH032**	71B4	**PH032**	56C
	128	6.3	237	13.72	1504	795	**CH032**	71B4	**PH032**	56C
	119	5.9	253	14.66	1504	821	**CH032**	71B4	**PH032**	56C
	104	5.8	290	16.77	1681	830	**CH032**	71B4	**PH032**	56C
	96	5.6	315	18.20	1770	841	**CH032**	71B4	**PH032**	56C
	88	5.1	344	19.90	1770	880	**CH032**	71B4	**PH032**	56C
	77	4.5	392	22.68	1770	940	**CH032**	71B4	**PH032**	56C
	73	4.3	412	23.83	1770	963	**CH032**	71B4	**PH032**	56C
	66	3.9	456	26.39	1770	1012	**CH032**	71B4	**PH032**	56C
	59	3.4	513	29.70	1770	1071	**CH032**	71B4	**PH032**	56C
	53	3.1	568	32.89	1770	1124	**CH032**	71B4	**PH032**	56C
	46	2.7	655	37.92	1770	1200	**CH032**	71B4	**PH032**	56C
	42	2.5	716	41.40	1770	1236	**CH032**	71B4	**PH032**	56C
	37	2.2	817	47.25	1770	1236	**CH032**	71B4	**PH032**	56C
	37	2.9	822	47.53	2389	1483	**CH042**	71B4	**PH042**	56C
	33	2.0	907	53.59	1770	1236	**CH033**	71B4	**PH033**	56C
	32	2.5	938	54.25	2389	1483	**CH042**	71B4	**PH042**	56C
	28	2.4	1046	61.83	2477	1483	**CH043**	71B4	**PH043**	56C
	26	1.6	1130	66.78	1770	1236	**CH033**	71B4	**PH033**	56C



MOTOVARIO™

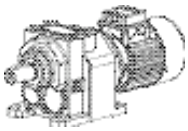
H Gearmotor Ratings – Motor Speed 1750 RPM

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
0.5	24	3.6	1231	72.75	4424	1798	**CH053**	71B4	**PH053**	56C
	23	1.4	1266	74.84	1770	1236	**CH033**	71B4	**PH033**	56C
	23	1.9	1298	76.67	2477	1483	**CH043**	71B4	**PH043**	56C
	20	1.7	1473	87.05	2477	1483	**CH043**	71B4	**PH043**	56C
	19	2.9	1532	90.51	4424	1798	**CH053**	71B4	**PH053**	56C
	18	1.1	1680	99.27	1770	1236	**CH033**	71B4	**PH033**	56C
	16	1.0	1828	108.05	1770	1236	**CH033**	71B4	**PH033**	56C
	16	2.4	1844	108.95	4424	1798	**CH053**	71B4	**PH053**	56C
	15	1.4	1938	114.55	2654	1483	**CH043**	71B4	**PH043**	56C
	15	3.8	1997	118.00	7521	2697	**CH063**	71B4	**PH063**	56C
	14	1.2	2127	125.69	2654	1483	**CH043**	71B4	**PH043**	56C
	13	1.9	2281	134.76	4424	1798	**CH053**	71B4	**PH053**	56C
	13	3.3	2291	135.40	7521	2697	**CH063**	71B4	**PH063**	56C
	12	1.1	2404	142.04	2654	1483	**CH043**	71B4	**PH043**	56C
	12	3.0	2530	149.51	7521	2697	**CH063**	71B4	**PH063**	56C
	11	1.0	2799	165.38	2654	1483	**CH043**	71B4	**PH043**	56C
	11	1.7	2662	157.29	4424	1798	**CH053**	71B4	**PH053**	56C
	10	2.6	2888	170.67	7521	2697	**CH063**	71B4	**PH063**	56C
	9.4	2.4	3151	186.18	7521	2697	**CH063**	71B4	**PH063**	56C
	9.0	1.3	3293	194.56	4424	1798	**CH053**	71B4	**PH053**	56C
	8.1	1.2	3662	216.38	4424	1798	**CH053**	71B4	**PH053**	56C
	8.1	2.1	3642	215.21	7521	2697	**CH063**	71B4	**PH063**	56C
	7.5	1.9	3971	234.67	7521	2697	**CH063**	71B4	**PH063**	56C
	6.5	1.0	4529	267.65	4424	1798	**CH053**	71B4	**PH053**	56C
	6.5	1.7	4535	268.00	7521	2697	**CH063**	71B4	**PH063**	56C
0.75	1217	5.9	38	1.44	221	123	**CH041**	80A4	**PH041**	56C
	875	4.2	52	2.00	221	140	**CH041**	80A4	**PH041**	56C
	688	4.0	67	2.55	265	148	**CH041**	80A4	**PH041**	56C
	645	3.7	71	2.71	265	152	**CH041**	80A4	**PH041**	56C
	564	4.4	81	3.11	354	150	**CH041**	80A4	**PH041**	56C
	488	4.2	94	3.59	398	154	**CH041**	80A4	**PH041**	56C
	417	3.6	110	4.20	398	165	**CH041**	80A4	**PH041**	56C
	350	3.0	131	5.00	398	177	**CH041**	80A4	**PH041**	56C
	318	3.1	144	5.50	442	179	**CH041**	80A4	**PH041**	56C
	287	2.8	160	6.09	442	187	**CH041**	80A4	**PH041**	56C
	228	2.2	201	7.67	442	206	**CH041**	80A4	**PH041**	56C
	200	2.1	229	8.75	487	213	**CH041**	80A4	**PH041**	56C
	173	4.7	263	10.14	1239	752	**CH032**	80A4	**PH032**	56C
	149	4.2	305	11.76	1283	794	**CH032**	80A4	**PH032**	56C
	128	4.2	356	13.72	1504	795	**CH032**	80A4	**PH032**	56C
	119	4.0	380	14.66	1504	821	**CH032**	80A4	**PH032**	56C
	104	3.9	435	16.77	1681	830	**CH032**	80A4	**PH032**	56C
	96	3.8	472	18.20	1770	841	**CH032**	80A4	**PH032**	56C
	88	3.4	516	19.90	1770	880	**CH032**	80A4	**PH032**	56C
	77	3.0	588	22.68	1770	940	**CH032**	80A4	**PH032**	56C



Gearmotor Ratings – Motor Speed 1750 RPM H

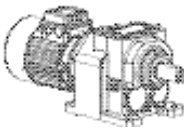
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
0.75	73	2.9	618	23.83	1770	963	**CH032**	80A4	**PH032**	56C
	67	3.4	675	26.04	2300	1347	**CH042**	80A4	**PH042**	56C
	66	2.6	684	26.39	1770	1012	**CH032**	80A4	**PH032**	56C
	64	3.4	713	27.50	2389	1343	**CH042**	80A4	**PH042**	56C
	59	2.3	770	29.70	1770	1071	**CH032**	80A4	**PH032**	56C
	57	3.0	790	30.45	2389	1406	**CH042**	80A4	**PH042**	56C
	53	2.1	853	32.89	1770	1124	**CH032**	80A4	**PH032**	56C
	51	2.7	884	34.10	2389	1480	**CH042**	80A4	**PH042**	56C
	46	1.8	983	37.92	1770	1200	**CH032**	80A4	**PH032**	56C
	46	2.4	979	37.76	2389	1483	**CH042**	80A4	**PH042**	56C
	45	4.3	1011	38.98	4336	1798	**CH052**	80A4	**PH052**	56C
	43	7.2	1046	40.33	7521	2697	**CH062**	80A4	**PH062**	56C
	42	1.6	1073	41.40	1770	1236	**CH032**	80A4	**PH032**	56C
	40	2.1	1134	43.75	2389	1483	**CH042**	80A4	**PH042**	56C
	39	3.7	1176	45.36	4336	1798	**CH052**	80A4	**PH052**	56C
	37	1.4	1225	47.25	1770	1236	**CH032**	80A4	**PH032**	56C
	37	1.9	1232	47.53	2389	1483	**CH042**	80A4	**PH042**	56C
	36	3.4	1274	49.13	4336	1798	**CH052**	80A4	**PH052**	56C
	33	1.3	1360	53.59	1770	1236	**CH033**	80A4	**PH033**	56C
	32	1.7	1406	54.25	2389	1483	**CH042**	80A4	**PH042**	56C
	31	3.0	1455	56.11	4336	1798	**CH052**	80A4	**PH052**	56C
	30	3.0	1493	58.81	4424	1798	**CH053**	80A4	**PH053**	56C
	28	1.6	1570	61.83	2477	1483	**CH043**	80A4	**PH043**	56C
	26	1.0	1695	66.78	1770	1236	**CH033**	80A4	**PH033**	56C
	24	2.4	1847	72.75	4424	1798	**CH053**	80A4	**PH053**	56C
	23	1.3	1946	76.67	2477	1483	**CH043**	80A4	**PH043**	56C
	20	1.1	2210	87.05	2477	1483	**CH043**	80A4	**PH043**	56C
	20	3.5	2178	85.82	7521	2697	**CH063**	80A4	**PH063**	56C
	19	1.9	2298	90.51	4424	1798	**CH053**	80A4	**PH053**	56C
	18	3.1	2405	94.76	7521	2697	**CH063**	80A4	**PH063**	56C
	16	1.6	2766	108.95	4424	1798	**CH053**	80A4	**PH053**	56C
	15	2.5	2995	118.00	7521	2697	**CH063**	80A4	**PH063**	56C
	13	1.3	3421	134.76	4424	1798	**CH053**	80A4	**PH053**	56C
	13	2.2	3437	135.40	7521	2697	**CH063**	80A4	**PH063**	56C
	12	2.0	3795	149.51	7521	2697	**CH063**	80A4	**PH063**	56C
	11	1.1	3993	157.29	4424	1798	-	-	**PH053**	56C
	11	3.9	4121	162.35	15927	4045	**CH083**	80A4	**PH083**	56C
	10	1.7	4332	170.67	7521	2697	**CH063**	80A4	**PH063**	56C
	9.8	3.5	4547	179.13	15927	4045	**CH083**	80A4	**PH083**	56C
	9.4	1.6	4726	186.18	7521	2697	**CH063**	80A4	**PH063**	56C
	9.0	3.2	4952	195.07	15927	4045	**CH083**	80A4	**PH083**	56C
	8.1	1.4	5463	215.21	7521	2697	**CH063**	80A4	**PH063**	56C
	7.9	2.8	5655	222.78	15927	4045	**CH083**	80B4	**PH083**	56C
	7.5	1.3	5957	234.67	7521	2697	**CH063**	80A4	**PH063**	56C
	6.5	1.1	6803	268.00	7521	2697	**CH063**	80A4	**PH063**	56C



MOTOVARIO™

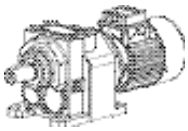
H Gearmotor Ratings – Motor Speed 1750 RPM

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
1.0	1217	4.4	50	1.44	221	123	**CH041**	80B4	**PH041**	56C/143/145TC
	875	3.2	70	2.00	221	140	**CH041**	80B4	**PH041**	56C/143/145TC
	688	3.0	89	2.55	265	148	**CH041**	80B4	**PH041**	56C/143/145TC
	645	2.8	95	2.71	265	152	**CH041**	80B4	**PH041**	56C/143/145TC
	564	3.3	108	3.11	354	150	**CH041**	80B4	**PH041**	56C/143/145TC
	488	3.2	125	3.59	398	154	**CH041**	80B4	**PH041**	56C/143/145TC
	417	2.7	147	4.20	398	165	**CH041**	80B4	**PH041**	56C/143/145TC
	350	2.3	175	5.00	398	177	**CH041**	80B4	**PH041**	56C/143/145TC
	318	2.3	192	5.50	442	179	**CH041**	80B4	**PH041**	56C/143/145TC
	287	2.1	213	6.09	442	187	**CH041**	80B4	**PH041**	56C/143/145TC
	281	4.3	215	6.23	929	673	**CH032**	80B4	**PH032**	56C/143/145TC
	228	1.7	268	7.67	442	206	**CH041**	80B4	**PH041**	56C/143/145TC
	225	4.1	268	7.76	1106	696	**CH032**	80B4	**PH032**	56C/143/145TC
	200	1.6	306	8.75	487	213	**CH041**	80B4	**PH041**	56C/143/145TC
	197	3.8	306	8.87	1150	728	**CH032**	80B4	**PH032**	56C/143/145TC
	173	3.5	351	10.14	1239	752	**CH032**	80B4	**PH032**	56C/143/145TC
	149	3.2	407	11.76	1283	794	**CH032**	80B4	**PH032**	56C/143/145TC
	128	3.2	474	13.72	1504	795	**CH032**	80B4	**PH032**	56C/143/145TC
	119	3.0	507	14.66	1504	821	**CH032**	80B4	**PH032**	56C/143/145TC
	104	2.9	580	16.77	1681	830	**CH032**	80B4	**PH032**	56C/143/145TC
	96	2.8	629	18.20	1770	841	**CH032**	80B4	**PH032**	56C/143/145TC
	92	3.4	657	19.00	2212	1184	**CH042**	80B4	**PH042**	56C/143/145TC
	88	2.6	688	19.90	1770	880	**CH032**	80B4	**PH032**	56C/143/145TC
	83	3.0	726	21.00	2212	1240	**CH042**	80B4	**PH042**	56C/143/145TC
	77	2.3	784	22.68	1770	940	**CH032**	80B4	**PH032**	56C/143/145TC
	76	2.9	800	23.15	2300	1277	**CH042**	80B4	**PH042**	56C/143/145TC
	73	2.1	824	23.83	1770	963	**CH032**	80B4	**PH032**	56C/143/145TC
	67	2.6	900	26.04	2300	1347	**CH042**	80B4	**PH042**	56C/143/145TC
	66	1.9	912	26.39	1770	1012	**CH032**	80B4	**PH032**	56C/143/145TC
	64	2.5	951	27.50	2389	1343	**CH042**	80B4	**PH042**	56C/143/145TC
	59	1.7	1027	29.70	1770	1071	**CH032**	80B4	**PH032**	56C/143/145TC
	57	2.3	1053	30.45	2389	1406	**CH042**	80B4	**PH042**	56C/143/145TC
	53	1.6	1137	32.89	1770	1124	**CH032**	80B4	**PH032**	56C/143/145TC
	53	3.8	1141	33.00	4336	1713	**CH052**	80B4	**PH052**	56C/143/145TC
	51	2.0	1179	34.10	2389	1480	**CH042**	80B4	**PH042**	56C/143/145TC
	46	1.4	1311	37.92	1770	1200	**CH032**	80B4	**PH032**	56C/143/145TC
	46	1.8	1305	37.76	2389	1483	**CH042**	80B4	**PH042**	56C/143/145TC
	45	3.2	1347	38.98	4336	1798	**CH052**	80B4	**PH052**	56C/143/145TC
	42	1.2	1431	41.40	1770	1236	**CH032**	80B4	**PH032**	56C/143/145TC
	40	1.6	1512	43.75	2389	1483	**CH042**	80B4	**PH042**	56C/143/145TC
	39	2.8	1568	45.36	4336	1798	**CH052**	80B4	**PH052**	56C/143/145TC
	37	1.1	1633	47.25	1770	1236	**CH032**	80B4	**PH032**	56C/143/145TC
	37	1.5	1643	47.53	2389	1483	**CH042**	80B4	**PH042**	56C/143/145TC
	36	2.6	1698	49.13	4336	1798	**CH052**	80B4	**PH052**	56C/143/145TC
	33	1.0	1814	53.59	1770	1236	**CH033**	80B4	**PH033**	56C/143/145TC



Gearmotor Ratings – Motor Speed 1750 RPM H

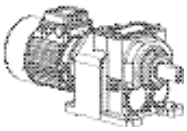
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
1.0	32	1.3	1875	54.25	2389	1483	**CH042**	80B4	**PH042**	56C/143/145TC
	31	2.2	1940	56.11	4336	1798	**CH052**	80B4	**PH052**	56C/143/145TC
	30	2.2	1991	58.81	4424	1798	**CH053**	80B4	**PH053**	56C/143/145TC
	28	1.2	2093	61.83	2477	1483	**CH043**	80B4	**PH043**	56C/143/145TC
	26	3.3	2302	68.00	7521	2697	**CH063**	80B4	**PH063**	56C/143/145TC
	24	1.8	2462	72.75	4424	1798	**CH053**	80B4	**PH053**	56C/143/145TC
	23	1.0	2595	76.67	2477	1483	**CH043**	80B4	**PH043**	56C/143/145TC
	20	2.6	2905	85.82	7521	2697	**CH063**	80B4	**PH063**	56C/143/145TC
	19	1.4	3063	90.51	4424	1798	**CH053**	80B4	**PH053**	56C/143/145TC
	18	2.3	3207	94.76	7521	2697	**CH063**	80B4	**PH063**	56C/143/145TC
	16	1.2	3687	108.95	4424	1798	**CH053**	80B4	**PH053**	56C/143/145TC
	15	1.9	3994	118.00	7521	2697	**CH063**	80B4	**PH063**	56C/143/145TC
	14	3.8	4212	124.44	15927	4045	**CH083**	80B4	**PH083**	56C/143/145TC
	13	1.0	4561	134.76	4424	1798	**CH053**	80B4	**PH053**	56C/143/145TC
	13	1.6	4583	135.40	7521	2697	**CH063**	80B4	**PH063**	56C/143/145TC
	12	1.5	5060	149.51	7521	2697	**CH063**	80B4	**PH063**	56C/143/145TC
	12	3.3	4811	142.15	15927	4045	**CH083**	80B4	**PH083**	56C/143/145TC
	11	3.0	5238	154.76	15927	4045	**CH083**	80B4	**PH083**	56C/143/145TC
	11	2.9	5495	162.35	15927	4045	**CH083**	80B4	**PH083**	56C/143/145TC
	10	1.3	5776	170.67	7521	2697	**CH063**	80B4	**PH063**	56C/143/145TC
	9.8	2.6	6063	179.13	15927	4045	**CH083**	80B4	**PH083**	56C/143/145TC
	9.4	1.2	6301	186.18	7521	2697	**CH063**	80B4	**PH063**	56C/143/145TC
	9.0	2.4	6602	195.07	15927	4045	**CH083**	80B4	**PH083**	56C/143/145TC
	8.1	1.0	7284	215.21	7521	2697	**CH063**	80B4	**PH063**	56C/143/145TC
	7.9	2.1	7540	222.78	15927	4045	**CH083**	80B4	**PH083**	56C/143/145TC
1.5	1217	2.9	75	1.44	221	123	**CH041**	90S4	**PH041**	56C/143/145TC
	875	2.1	105	2.00	221	140	**CH041**	90S4	**PH041**	56C/143/145TC
	688	2.0	133	2.55	265	148	**CH041**	90S4	**PH041**	56C/143/145TC
	645	1.9	142	2.71	265	152	**CH041**	90S4	**PH041**	56C/143/145TC
	564	2.2	163	3.11	354	150	**CH041**	90S4	**PH041**	56C/143/145TC
	488	2.1	188	3.59	398	154	**CH041**	90S4	**PH041**	56C/143/145TC
	438	3.8	210	4.00	796	420	**CH051**	90S4	**PH051**	56C/143/145TC
	417	1.8	220	4.20	398	165	**CH041**	90S4	**PH041**	56C/143/145TC
	367	3.4	250	4.77	841	445	**CH051**	90S4	**PH051**	56C/143/145TC
	350	1.5	262	5.00	398	177	**CH041**	90S4	**PH041**	56C/143/145TC
	333	3.2	275	5.25	885	458	**CH051**	90S4	**PH051**	56C/143/145TC
	320	5.0	283	5.46	1416	796	**CH042**	90S4	**PH042**	56C/143/145TC
	318	1.5	288	5.50	442	179	**CH041**	90S4	**PH041**	56C/143/145TC
	287	1.4	319	6.09	442	187	**CH041**	90S4	**PH041**	56C/143/145TC
	281	2.9	323	6.23	929	673	**CH032**	90S4	**PH032**	56C/143/145TC
	239	2.3	384	7.33	885	522	**CH051**	90S4	**PH051**	56C/143/145TC
	228	1.1	402	7.67	442	206	**CH041**	90S4	**PH041**	56C/143/145TC
	225	2.7	402	7.76	1106	696	**CH032**	90S4	**PH032**	56C/143/145TC
	209	2.0	439	8.38	885	550	**CH051**	90S4	**PH051**	56C/143/145TC
	209	3.4	439	8.38	1504	803	**CH061**	90S4	**PH061**	56C/143/145TC



MOTOVARIO™

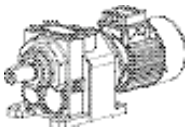
H Gearmotor Ratings – Motor Speed 1750 RPM

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	200	1.1	458	8.75	487	213	**CH041**	90S4	**PH041**	56C/143/145TC
	197	2.5	460	8.87	1150	728	**CH032**	90S4	**PH032**	56C/143/145TC
	173	2.4	526	10.14	1239	752	**CH032**	90S4	**PH032**	56C/143/145TC
	149	2.1	610	11.76	1283	794	**CH032**	90S4	**PH032**	56C/143/145TC
	148	3.6	612	11.80	2212	944	**CH042**	90S4	**PH042**	56C/143/145TC
	129	3.1	704	13.57	2212	1011	**CH042**	90S4	**PH042**	56C/143/145TC
	128	2.1	711	13.72	1504	795	**CH032**	90S4	**PH032**	56C/143/145TC
	119	2.0	760	14.66	1504	821	**CH032**	90S4	**PH032**	56C/143/145TC
	110	2.6	828	15.96	2124	1092	**CH042**	90S4	**PH042**	56C/143/145TC
	104	1.9	869	16.77	1681	830	**CH032**	90S4	**PH032**	56C/143/145TC
	96	1.9	944	18.20	1770	841	**CH032**	90S4	**PH032**	56C/143/145TC
	92	2.2	985	19.00	2212	1184	**CH042**	90S4	**PH042**	56C/143/145TC
	88	1.7	1032	19.90	1770	880	**CH032**	90S4	**PH032**	56C/143/145TC
	88	3.9	1036	19.97	4070	1384	**CH052**	90S4	**PH052**	56C/143/145TC
	83	2.0	1089	21.00	2212	1240	**CH042**	90S4	**PH042**	56C/143/145TC
	81	3.7	1123	21.67	4159	1426	**CH052**	90S4	**PH052**	56C/143/145TC
	77	1.5	1176	22.68	1770	940	**CH032**	90S4	**PH032**	56C/143/145TC
	76	1.9	1200	23.15	2300	1277	**CH042**	90S4	**PH042**	56C/143/145TC
	73	1.4	1236	23.83	1770	963	**CH032**	90S4	**PH032**	56C/143/145TC
	71	3.2	1281	24.71	4159	1520	**CH052**	90S4	**PH052**	56C/143/145TC
	67	1.7	1350	26.04	2300	1347	**CH042**	90S4	**PH042**	56C/143/145TC
	67	3.2	1358	26.18	4336	1533	**CH052**	90S4	**PH052**	56C/143/145TC
	66	1.3	1368	26.39	1770	1012	**CH032**	90S4	**PH032**	56C/143/145TC
	64	1.7	1426	27.50	2389	1343	**CH042**	90S4	**PH042**	56C/143/145TC
	62	2.9	1474	28.44	4336	1596	**CH052**	90S4	**PH052**	56C/143/145TC
	59	1.1	1540	29.70	1770	1071	**CH032**	90S4	**PH032**	56C/143/145TC
	57	1.5	1579	30.45	2389	1406	**CH042**	90S4	**PH042**	56C/143/145TC
	56	2.7	1634	31.52	4336	1676	**CH052**	90S4	**PH052**	56C/143/145TC
	53	1.0	1705	32.89	1770	1124	**CH032**	90S4	**PH032**	56C/143/145TC
	53	2.5	1711	33.00	4336	1713	**CH052**	90S4	**PH052**	56C/143/145TC
	51	1.4	1768	34.10	2389	1480	**CH042**	90S4	**PH042**	56C/143/145TC
	47	3.7	1918	36.99	7078	2697	**CH062**	90S4	**PH062**	56C/143/145TC
	46	1.2	1958	37.76	2389	1483	**CH042**	90S4	**PH042**	56C/143/145TC
	45	2.1	2021	38.98	4336	1798	**CH052**	90S4	**PH052**	56C/143/145TC
	43	3.6	2091	40.33	7521	2697	**CH062**	90S4	**PH062**	56C/143/145TC
	40	1.1	2268	43.75	2389	1483	**CH042**	90S4	**PH042**	56C/143/145TC
	39	1.8	2352	45.36	4336	1798	**CH052**	90S4	**PH052**	56C/143/145TC
	38	3.1	2388	46.06	7521	2697	**CH062**	90S4	**PH062**	56C/143/145TC
	37	1.0	2465	47.53	2389	1483	**CH042**	90S4	**PH042**	56C/143/145TC
	36	1.7	2548	49.13	4336	1798	**CH052**	90S4	**PH052**	56C/143/145TC
	35	3.0	2511	49.45	7521	2697	**CH063**	90S4	**PH063**	56C/143/145TC
	32	2.7	2772	54.61	7521	2697	**CH063**	90S4	**PH063**	56C/143/145TC
	31	1.5	2909	56.11	4336	1798	**CH052**	90S4	**PH052**	56C/143/145TC
	30	1.5	2986	58.81	4424	1798	**CH053**	90S4	**PH053**	56C/143/145TC
	26	2.2	3452	68.00	7521	2697	**CH063**	90S4	**PH063**	56C/143/145TC



Gearmotor Ratings – Motor Speed 1750 RPM H

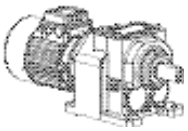
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
1.5	24	1.2	3693	72.75	4424	1798	**CH053**	90S4	**PH053**	56C/143/145TC
	22	4.0	4004	78.87	15927	4045	**CH083**	90S4	**PH083**	56C/143/145TC
	20	1.7	4357	85.82	7521	2697	**CH063**	90S4	**PH063**	56C/143/145TC
	20	3.7	4344	85.56	15927	4045	**CH083**	90S4	**PH083**	56C/143/145TC
	18	1.6	4811	94.76	7521	2697	**CH063**	90S4	**PH063**	56C/143/145TC
	18	3.2	4980	98.09	15927	4045	**CH083**	90S4	**PH083**	56C/143/145TC
	16	2.8	5726	112.78	15927	4045	**CH083**	90S4	**PH083**	56C/143/145TC
	15	1.3	5991	118.00	7521	2697	**CH063**	90S4	**PH063**	56C/143/145TC
	14	2.5	6318	124.44	15927	4045	**CH083**	90S4	**PH083**	56C/143/145TC
	13	1.1	6874	135.40	7521	2697	**CH063**	90S4	**PH063**	56C/143/145TC
	12	2.2	7217	142.15	15927	4045	**CH083**	90S4	**PH083**	56C/143/145TC
	12	1.0	7590	149.51	7521	2697	**CH063**	90S4	**PH063**	56C/143/145TC
	11	2.0	7857	154.76	15927	4045	**CH083**	90S4	**PH083**	56C/143/145TC
	11	1.9	8242	162.35	15927	4045	**CH083**	90S4	**PH083**	56C/143/145TC
	11	3.8	8165	160.82	30968	4944	**CH103**	90S4	**PH103**	143/145TC
	9.8	1.8	9094	179.13	15927	4045	**CH083**	90S4	**PH083**	56C/143/145TC
	9.7	3.4	9193	181.07	30968	4944	**CH103**	90S4	**PH103**	143/145TC
	9.0	1.6	9903	195.07	15927	4045	**CH083**	90S4	**PH083**	56C/143/145TC
	9.0	3.1	9860	194.21	30968	4944	**CH103**	90S4	**PH103**	143/145TC
	8.1	2.8	10938	215.45	30968	4944	**CH103**	90S4	**PH103**	143/145TC
	7.9	1.4	11310	222.78	15927	4045	**CH083**	90S4	**PH083**	56C/143/145TC
	7.2	2.6	12316	242.59	31853	4944	**CH103**	90S4	**PH103**	143/145TC
2.0	1217	2.2	100	1.44	221	123	**CH041**	90L4	**PH041**	143/145TC
	875	1.6	140	2.00	221	140	**CH041**	90L4	**PH041**	143/145TC
	824	3.6	148	2.13	531	353	**CH051**	90L4	**PH051**	143/145TC
	688	1.5	178	2.55	265	148	**CH041**	90L4	**PH041**	143/145TC
	681	3.4	180	2.57	619	370	**CH051**	90L4	**PH051**	143/145TC
	645	1.4	190	2.71	265	152	**CH041**	90L4	**PH041**	143/145TC
	564	1.6	217	3.11	354	150	**CH041**	90L4	**PH041**	143/145TC
	553	3.2	221	3.17	708	392	**CH051**	90L4	**PH051**	143/145TC
	488	1.6	251	3.59	398	154	**CH041**	90L4	**PH041**	143/145TC
	475	3.1	258	3.69	796	406	**CH051**	90L4	**PH051**	143/145TC
	438	2.9	279	4.00	796	420	**CH051**	90L4	**PH051**	143/145TC
	417	1.4	293	4.20	398	165	**CH041**	90L4	**PH041**	143/145TC
	373	2.6	325	4.70	841	615	**CH032**	90L4	**PH032**	143/145TC
	367	2.5	333	4.77	841	445	**CH051**	90L4	**PH051**	143/145TC
	350	1.1	349	5.00	398	177	**CH041**	90L4	**PH041**	143/145TC
	333	2.4	367	5.25	885	458	**CH051**	90L4	**PH051**	143/145TC
	318	1.2	384	5.50	442	179	**CH041**	90L4	**PH041**	143/145TC
	301	2.2	406	5.82	885	477	**CH051**	90L4	**PH051**	143/145TC
	287	1.0	425	6.09	442	187	**CH041**	90L4	**PH041**	143/145TC
	281	2.2	431	6.23	929	673	**CH032**	90L4	**PH032**	143/145TC
	243	2.8	497	7.19	1416	899	**CH042**	90L4	**PH042**	143/145TC
	239	1.7	512	7.33	885	522	**CH051**	90L4	**PH051**	143/145TC



MOTOVARIO™

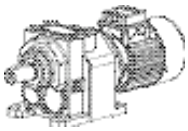
H Gearmotor Ratings – Motor Speed 1750 RPM

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
2.0	225	2.1	537	7.76	1106	696	**CH032**	90L4	**PH032**	143/145TC
	209	1.5	585	8.38	885	550	**CH051**	90L4	**PH051**	143/145TC
	209	2.6	585	8.38	1504	803	**CH061**	90L4	**PH061**	143/145TC
	197	1.9	613	8.87	1150	728	**CH032**	90L4	**PH032**	143/145TC
	196	3.0	616	8.91	1858	894	**CH042**	90L4	**PH042**	143/145TC
	173	1.8	701	10.14	1239	752	**CH032**	90L4	**PH032**	143/145TC
	170	3.0	713	10.31	2124	902	**CH042**	90L4	**PH042**	143/145TC
	149	1.6	813	11.76	1283	794	**CH032**	90L4	**PH032**	143/145TC
	148	2.7	816	11.80	2212	944	**CH042**	90L4	**PH042**	143/145TC
	129	2.4	938	13.57	2212	1011	**CH042**	90L4	**PH042**	143/145TC
	128	1.6	948	13.72	1504	795	**CH032**	90L4	**PH032**	143/145TC
	119	1.5	1013	14.66	1504	821	**CH032**	90L4	**PH032**	143/145TC
	110	1.9	1103	15.96	2124	1092	**CH042**	90L4	**PH042**	143/145TC
	105	3.5	1147	16.59	3982	1276	**CH052**	90L4	**PH052**	143/145TC
	104	1.5	1159	16.77	1681	830	**CH032**	90L4	**PH032**	143/145TC
	97	3.3	1244	18.00	4070	1314	**CH052**	90L4	**PH052**	143/145TC
	96	1.4	1258	18.20	1770	841	**CH032**	90L4	**PH032**	143/145TC
	92	1.7	1314	19.00	2212	1184	**CH042**	90L4	**PH042**	143/145TC
	88	1.3	1376	19.90	1770	880	**CH032**	90L4	**PH032**	143/145TC
	88	2.9	1381	19.97	4070	1384	**CH052**	90L4	**PH052**	143/145TC
	83	1.5	1452	21.00	2212	1240	**CH042**	90L4	**PH042**	143/145TC
	81	2.8	1498	21.67	4159	1426	**CH052**	90L4	**PH052**	143/145TC
	77	1.1	1568	22.68	1770	940	**CH032**	90L4	**PH032**	143/145TC
	76	1.4	1600	23.15	2300	1277	**CH042**	90L4	**PH042**	143/145TC
	73	1.1	1648	23.83	1770	963	**CH032**	90L4	**PH032**	143/145TC
	71	2.4	1708	24.71	4159	1520	**CH052**	90L4	**PH052**	143/145TC
	67	1.3	1800	26.04	2300	1347	**CH042**	90L4	**PH042**	143/145TC
	67	2.4	1810	26.18	4336	1533	**CH052**	90L4	**PH052**	143/145TC
	64	1.3	1901	27.50	2389	1343	**CH042**	90L4	**PH042**	143/145TC
	62	2.2	1966	28.44	4336	1596	**CH052**	90L4	**PH052**	143/145TC
	60	3.5	2028	29.33	7078	2697	**CH062**	90L4	**PH062**	143/145TC
	57	1.1	2105	30.45	2389	1406	**CH042**	90L4	**PH042**	143/145TC
	56	2.0	2179	31.52	4336	1676	**CH052**	90L4	**PH052**	143/145TC
	55	3.4	2212	32.00	7521	2697	**CH062**	90L4	**PH062**	143/145TC
	53	1.9	2281	33.00	4336	1713	**CH052**	90L4	**PH052**	143/145TC
	51	1.0	2357	34.10	2389	1480	**CH042**	90L4	**PH042**	143/145TC
	47	2.8	2557	36.99	7078	2697	**CH062**	90L4	**PH062**	143/145TC
	45	1.6	2695	38.98	4336	1798	**CH052**	90L4	**PH052**	143/145TC
	43	2.7	2788	40.33	7521	2697	**CH062**	90L4	**PH062**	143/145TC
	39	1.4	3136	45.36	4336	1798	**CH052**	90L4	**PH052**	143/145TC
	38	2.4	3184	46.06	7521	2697	**CH062**	90L4	**PH062**	143/145TC
	36	1.3	3397	49.13	4336	1798	**CH052**	90L4	**PH052**	143/145TC
	35	2.2	3348	49.45	7521	2697	**CH063**	90L4	**PH063**	143/145TC
	32	2.0	3696	54.61	7521	2697	**CH063**	90L4	**PH063**	143/145TC
	31	1.1	3879	56.11	4336	1798	**CH052**	90L4	**PH052**	143/145TC



Gearmotor Ratings – Motor Speed 1750 RPM H

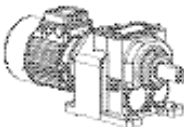
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
2.0	31	3.7	3826	56.53	14157	4045	-	-	**PH083**	143/145TC
	30	1.1	3981	58.81	4424	1798	**CH053**	90L4	**PH053**	143/145TC
	26	1.6	4603	68.00	7521	2697	**CH063**	90L4	**PH063**	143/145TC
	24	3.3	4839	71.48	15927	4045	**CH083**	90L4	**PH083**	143/145TC
	22	3.0	5339	78.87	15927	4045	**CH083**	90L4	**PH083**	143/145TC
	20	2.8	5791	85.56	15927	4045	**CH083**	90L4	**PH083**	143/145TC
	20	1.3	5809	85.82	7521	2697	**CH063**	90L4	**PH063**	143/145TC
	18	1.2	6414	94.76	7521	2697	**CH063**	90L4	**PH063**	143/145TC
	18	2.4	6640	98.09	15927	4045	**CH083**	90L4	**PH083**	143/145TC
	16	2.1	7634	112.78	15927	4045	**CH083**	90L4	**PH083**	143/145TC
	14	1.9	8424	124.44	15927	4045	**CH083**	90L4	**PH083**	143/145TC
	12	1.7	9623	142.15	15927	4045	**CH083**	90L4	**PH083**	143/145TC
	12	3.2	9708	143.42	30968	4944	**CH103**	90L4	**PH103**	143/145TC
	11	1.5	10476	154.76	15927	4045	**CH083**	90L4	**PH083**	143/145TC
	11	1.4	10989	162.35	15927	4045	**CH083**	90L4	**PH083**	143/145TC
	11	2.8	10886	160.82	30968	4944	**CH103**	90L4	**PH103**	143/145TC
	9.8	1.3	12126	179.13	15927	4045	**CH083**	90L4	**PH083**	143/145TC
	9.7	2.5	12257	181.07	30968	4944	**CH103**	90L4	**PH103**	143/145TC
	9.0	1.2	13204	195.07	15927	4045	**CH083**	90L4	**PH083**	143/145TC
	9.0	2.4	13146	194.21	30968	4944	**CH103**	90L4	**PH103**	143/145TC
	8.1	2.1	14584	215.45	30968	4944	**CH103**	90L4	**PH103**	143/145TC
	7.9	1.1	15080	222.78	15927	4045	**CH083**	90L4	**PH083**	143/145TC
	7.2	1.9	16421	242.59	31853	4944	**CH103**	90L4	**PH103**	143/145TC
3.0	1375	2.7	133	1.27	354	309	**CH051**	100LA4	**PH051**	182/184TC
	1233	3.6	149	1.42	531	302	**CH051**	100LA4	**PH051**	182/184TC
	1217	1.5	151	1.44	221	123	-	-	**PH041**	182/184TC
	875	1.1	210	2.00	221	140	**CH041**	-	**PH041**	182/184TC
	824	2.4	223	2.13	531	353	**CH051**	100LA4	**PH051**	182/184TC
	688	1.0	267	2.55	265	148	-	-	**PH041**	182/184TC
	681	2.3	269	2.57	619	370	**CH051**	100LA4	**PH051**	182/184TC
	681	3.9	269	2.57	1062	538	**CH061**	100LA4	**PH061**	182/184TC
	564	1.1	325	3.11	354	150	-	-	**PH041**	182/184TC
	553	2.1	332	3.17	708	392	**CH051**	100LA4	**PH051**	182/184TC
	553	3.5	332	3.17	1150	574	**CH061**	100LA4	**PH061**	182/184TC
	488	1.1	376	3.59	398	154	-	-	**PH041**	182/184TC
	475	2.1	386	3.69	796	406	**CH051**	100LA4	**PH051**	182/184TC
	475	3.4	386	3.69	1327	587	**CH061**	100LA4	**PH061**	182/184TC
	438	1.9	419	4.00	796	420	**CH051**	100LA4	**PH051**	182/184TC
	438	3.2	419	4.00	1327	608	**CH061**	100LA4	**PH061**	182/184TC
	373	1.7	487	4.70	841	615	**CH032**	100LA4	**PH032**	182/184TC
	367	1.7	500	4.77	841	445	**CH051**	100LA4	**PH051**	182/184TC
	367	2.8	500	4.77	1416	643	**CH061**	100LA4	**PH061**	182/184TC
	333	1.6	550	5.25	885	458	**CH051**	100LA4	**PH051**	182/184TC



MOTOVARIO™

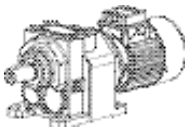
H Gearmotor Ratings – Motor Speed 1750 RPM

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	333	2.7	550	5.25	1504	657	**CH061**	100LA4	**PH061**	182/184TC
	320	2.5	566	5.46	1416	796	**CH042**	100LA4	**PH042**	182/184TC
	301	1.5	610	5.82	885	477	**CH051**	100LA4	**PH051**	182/184TC
	301	2.5	610	5.82	1504	688	**CH061**	100LA4	**PH061**	182/184TC
	281	1.4	646	6.23	929	673	**CH032**	100LA4	**PH032**	182/184TC
	254	3.6	715	6.89	2566	1025	**CH052**	100LA4	**PH052**	182/184TC
	243	1.9	745	7.19	1416	899	**CH042**	100LA4	**PH042**	182/184TC
	239	1.2	768	7.33	885	522	**CH051**	100LA4	-	-
	239	2.0	768	7.33	1504	759	**CH061**	100LA4	**PH061**	182/184TC
	233	3.9	786	7.50	3097	852	**CH081**	100LA4	**PH081**	182/184TC
	225	1.4	805	7.76	1106	696	**CH032**	100LA4	**PH032**	182/184TC
	209	1.0	878	8.38	885	550	**CH051**	100LA4	-	-
	209	1.7	878	8.38	1504	803	**CH061**	100LA4	**PH061**	182/184TC
	207	3.5	885	8.44	3097	898	**CH081**	100LA4	**PH081**	182/184TC
	205	3.4	884	8.53	3008	1056	**CH052**	100LA4	**PH052**	182/184TC
	197	1.3	919	8.87	1150	728	**CH032**	100LA4	**PH032**	182/184TC
	196	2.0	924	8.91	1858	894	**CH042**	100LA4	**PH042**	182/184TC
	183	3.3	992	9.56	3274	1072	**CH052**	100LA4	**PH052**	182/184TC
	173	1.2	1052	10.14	1239	752	**CH032**	100LA4	**PH032**	182/184TC
	170	2.0	1070	10.31	2124	902	**CH042**	100LA4	**PH042**	182/184TC
	152	2.9	1194	11.51	3451	1144	**CH052**	100LA4	**PH052**	182/184TC
	149	1.1	1220	11.76	1283	794	**CH032**	100LA4	**PH032**	182/184TC
	148	1.8	1224	11.80	2212	944	**CH042**	100LA4	**PH042**	182/184TC
	129	1.6	1407	13.57	2212	1011	**CH042**	100LA4	**PH042**	182/184TC
	128	1.1	1423	13.72	1504	795	**CH032**	100LA4	**PH032**	182/184TC
	123	2.6	1476	14.24	3805	1210	**CH052**	100LA4	**PH052**	182/184TC
	119	1.0	1520	14.66	1504	821	**CH032**	100LA4	**PH032**	182/184TC
	110	1.3	1655	15.96	2124	1092	**CH042**	100LA4	**PH042**	182/184TC
	105	2.3	1721	16.59	3982	1276	**CH052**	100LA4	**PH052**	182/184TC
	104	1.0	1739	16.77	1681	830	**CH032**	100LA4	**PH032**	182/184TC
	99	4.0	1832	17.67	7344	2232	**CH062**	100LA4	**PH062**	182/184TC
	97	2.2	1867	18.00	4070	1314	**CH052**	100LA4	**PH052**	182/184TC
	92	1.1	1970	19.00	2212	1184	**CH042**	100LA4	**PH042**	182/184TC
	88	2.0	2071	19.97	4070	1384	**CH052**	100LA4	**PH052**	182/184TC
	86	3.6	2103	20.28	7521	2361	**CH062**	100LA4	**PH062**	182/184TC
	83	1.0	2178	21.00	2212	1240	**CH042**	100LA4	**PH042**	182/184TC
	81	1.9	2247	21.67	4159	1426	**CH052**	100LA4	**PH052**	182/184TC
	75	3.1	2413	23.27	7521	2522	**CH062**	100LA4	**PH062**	182/184TC
	71	1.6	2562	24.71	4159	1520	**CH052**	100LA4	**PH052**	182/184TC
	68	2.8	2665	25.70	7521	2643	**CH062**	100LA4	**PH062**	182/184TC
	67	1.6	2715	26.18	4336	1533	**CH052**	100LA4	**PH052**	182/184TC
	62	1.5	2949	28.44	4336	1596	**CH052**	100LA4	**PH052**	182/184TC
	60	2.3	3042	29.33	7078	2697	**CH062**	100LA4	**PH062**	182/184TC
	56	1.3	3268	31.52	4336	1676	**CH052**	100LA4	**PH052**	182/184TC
	55	2.3	3318	32.00	7521	2697	**CH062**	100LA4	**PH062**	182/184TC



Gearmotor Ratings – Motor Speed 1750 RPM H

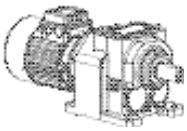
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
3.0	51	4.0	3565	34.38	14157	3375	**CH082**	100LA4	**PH082**	182/184TC
	47	1.8	3836	36.99	7078	2697	**CH062**	100LA4	**PH062**	182/184TC
	45	1.1	4042	38.98	4336	1798	**CH052**	100LA4	**PH052**	182/184TC
	45	3.5	4013	38.70	14157	3575	**CH082**	100LA4	**PH082**	182/184TC
	43	1.8	4182	40.33	7521	2697	**CH062**	100LA4	**PH062**	182/184TC
	41	3.2	4433	42.75	14157	3749	**CH082**	100LA4	**PH082**	182/184TC
	38	1.6	4777	46.06	7521	2697	**CH062**	100LA4	**PH062**	182/184TC
	36	2.8	4991	48.13	14157	3965	**CH082**	100LA4	**PH082**	182/184TC
	35	1.5	5022	49.45	7521	2697	**CH063**	100LA4	**PH063**	182/184TC
	32	1.4	5545	54.61	7521	2697	**CH063**	100LA4	**PH063**	182/184TC
	31	2.5	5739	56.53	14157	4045	**CH083**	100LA4	**PH083**	182/184TC
	26	1.1	6905	68.00	7521	2697	**CH063**	100LA4	**PH063**	182/184TC
	24	2.2	7258	71.48	15927	4045	**CH083**	100LA4	**PH083**	182/184TC
	22	2.0	8008	78.87	15927	4045	**CH083**	100LA4	**PH083**	182/184TC
	22	3.8	8104	79.82	30968	4944	**CH103**	100LA4	**PH103**	182/184TC
	21	3.6	8545	84.16	30968	4944	**CH103**	100LA4	**PH103**	182/184TC
	20	1.8	8687	85.56	15927	4045	**CH083**	100LA4	**PH083**	182/184TC
	19	3.3	9480	93.36	30968	4944	**CH103**	100LA4	**PH103**	182/184TC
	18	1.6	9960	98.09	15927	4045	**CH083**	100LA4	**PH083**	182/184TC
	17	3.0	10161	100.07	30968	4944	**CH103**	100LA4	**PH103**	182/184TC
	16	1.4	11452	112.78	15927	4045	**CH083**	100LA4	**PH083**	182/184TC
	15	3.7	12045	118.62	44240	6742	**CH123**	100LA4	**PH123**	182/184TC
	14	1.3	12636	124.44	15927	4045	**CH083**	100LA4	**PH083**	182/184TC
	14	2.5	12270	120.84	30968	4944	**CH103**	100LA4	**PH103**	182/184TC
	14	3.4	13015	128.18	44240	6742	**CH123**	100LA4	**PH123**	182/184TC
	13	2.3	13612	134.06	30968	4944	**CH103**	100LA4	**PH103**	182/184TC
	12	1.1	14434	142.15	15927	4045	**CH083**	100LA4	**PH083**	182/184TC
	12	2.1	14562	143.42	30968	4944	**CH103**	100LA4	**PH103**	182/184TC
	12	3.0	14701	144.79	44240	6742	**CH123**	100LA4	**PH123**	182/184TC
	11	1.0	15714	154.76	15927	4045	**CH083**	100LA4	**PH083**	182/184TC
	11	1.9	16329	160.82	30968	4944	**CH103**	100LA4	**PH103**	182/184TC
	11	2.8	15761	155.22	44240	6742	**CH123**	100LA4	**PH123**	182/184TC
	10	2.5	17546	172.80	44240	6742	**CH123**	100LA4	**PH123**	182/184TC
	9.7	1.7	18386	181.07	30968	4944	**CH103**	100LA4	**PH103**	182/184TC
	9.2	2.3	19210	189.19	44240	6742	**CH123**	100LA4	**PH123**	182/184TC
	9.0	1.6	19719	194.21	30968	4944	**CH103**	100LA4	**PH103**	182/184TC
	8.4	1.7	26392	207.40	44240	6742	**CH123**	100LA4	**PH123**	182/184TC
	8.1	1.4	21877	215.45	30968	4944	**CH103**	100LA4	**PH103**	182/184TC
	7.6	1.9	23447	230.92	44240	6742	**CH123**	100LA4	**PH123**	182/184TC
	7.2	1.3	24632	242.59	31853	4944	**CH103**	100LA4	**PH103**	182/184TC
	6.7	1.7	26363	259.64	44240	6742	**CH123**	100LA4	**PH123**	182/184TC
5.0	1375	1.6	222	1.27	354	309	**CH051**	112M4	**PH051**	182/184TC
	1302	3.0	235	1.34	708	456	**CH061**	112M4	**PH061**	182/184TC
	1233	2.1	248	1.42	531	302	**CH051**	112M4	**PH051**	182/184TC



MOTOVARIO™

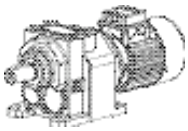
H Gearmotor Ratings – Motor Speed 1750 RPM

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
5.0	824	1.4	371	2.13	531	353	**CH051**	112M4	**PH051**	182/184TC
	824	2.9	371	2.13	1062	496	**CH061**	112M4	**PH061**	182/184TC
	681	1.4	449	2.57	619	370	**CH051**	112M4	**PH051**	182/184TC
	681	2.4	449	2.57	1062	538	**CH061**	112M4	**PH061**	182/184TC
	553	1.3	553	3.17	708	392	**CH051**	112M4	**PH051**	182/184TC
	553	2.1	553	3.17	1150	574	**CH061**	112M4	**PH061**	182/184TC
	475	1.2	644	3.69	796	406	**CH051**	112M4	**PH051**	182/184TC
	475	2.1	644	3.69	1327	587	**CH061**	112M4	**PH061**	182/184TC
	438	1.1	699	4.00	796	420	**CH051**	112M4	**PH051**	182/184TC
	438	1.9	699	4.00	1327	608	**CH061**	112M4	**PH061**	182/184TC
	375	3.5	815	4.67	2831	710	**CH081**	112M4	**PH081**	182/184TC
	367	1.0	833	4.77	841	445	**CH051**	112M4	**PH051**	182/184TC
	367	1.7	833	4.77	1416	643	**CH061**	112M4	**PH061**	182/184TC
	333	1.6	917	5.25	1504	657	**CH061**	112M4	**PH061**	182/184TC
	320	1.5	944	5.46	1416	796	**CH042**	112M4	**PH042**	182/184TC
	316	3.0	967	5.54	2920	759	**CH081**	112M4	**PH081**	182/184TC
	306	2.3	990	5.73	2300	984	**CH052**	112M4	**PH052**	182/184TC
	301	1.5	1016	5.82	1504	688	**CH061**	112M4	**PH061**	182/184TC
	288	2.8	1062	6.08	3008	783	**CH081**	112M4	**PH081**	182/184TC
	254	2.2	1191	6.89	2566	1025	**CH052**	112M4	**PH052**	182/184TC
	243	1.1	1242	7.19	1416	899	**CH042**	112M4	**PH042**	182/184TC
	239	1.2	1281	7.33	1504	759	**CH061**	112M4	**PH061**	182/184TC
	237	3.8	1277	7.39	4866	1769	**CH062**	112M4	**PH062**	182/184TC
	233	2.4	1310	7.50	3097	852	**CH081**	112M4	**PH081**	182/184TC
	209	1.0	1463	8.38	1504	803	**CH061**	112M4	**PH061**	182/184TC
	207	2.1	1475	8.44	3097	898	**CH081**	112M4	**PH081**	182/184TC
	206	3.6	1469	8.50	5309	1821	**CH062**	112M4	**PH062**	182/184TC
	205	2.0	1474	8.53	3008	1056	**CH052**	112M4	**PH052**	182/184TC
	196	1.2	1540	8.91	1858	894	**CH042**	112M4	**PH042**	182/184TC
	186	3.3	1622	9.39	5309	1908	**CH062**	112M4	**PH062**	182/184TC
	183	2.0	1653	9.56	3274	1072	**CH052**	112M4	**PH052**	182/184TC
	170	1.2	1783	10.31	2124	902	**CH042**	112M4	**PH042**	182/184TC
	152	1.7	1989	11.51	3451	1144	**CH052**	112M4	**PH052**	182/184TC
	150	2.8	2020	11.69	5751	2045	**CH062**	112M4	**PH062**	182/184TC
	148	1.1	2039	11.80	2212	944	**CH042**	112M4	**PH042**	182/184TC
	138	2.8	2189	12.67	6194	2057	**CH062**	112M4	**PH062**	182/184TC
	123	1.5	2461	14.24	3805	1210	**CH052**	112M4	**PH052**	182/184TC
	119	2.4	2549	14.75	6194	2211	**CH062**	112M4	**PH062**	182/184TC
	107	2.5	2815	16.29	7078	2184	**CH062**	112M4	**PH062**	182/184TC
	105	1.4	2868	16.59	3982	1276	**CH052**	112M4	**PH052**	182/184TC
	99	2.4	3053	17.67	7344	2232	**CH062**	112M4	**PH062**	182/184TC
	97	1.3	3111	18.00	4070	1314	**CH052**	112M4	**PH052**	182/184TC
	88	1.2	3452	19.97	4070	1384	**CH052**	112M4	**PH052**	182/184TC
	86	2.1	3505	20.28	7521	2361	**CH062**	112M4	**PH062**	182/184TC
	82	3.8	3697	21.39	14157	2648	**CH082**	112M4	**PH082**	182/184TC



Gearmotor Ratings – Motor Speed 1750 RPM H

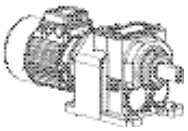
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
5.0	81	1.1	3745	21.67	4159	1426	**CH052**	112M4	**PH052**	182/184TC
	77	3.6	3941	22.80	14157	2739	**CH082**	112M4	**PH082**	182/184TC
	75	1.9	4022	23.27	7521	2522	**CH062**	112M4	**PH062**	182/184TC
	68	1.7	4441	25.70	7521	2643	**CH062**	112M4	**PH062**	182/184TC
	66	3.1	4597	26.60	14157	2968	**CH082**	112M4	**PH082**	182/184TC
	63	2.9	4819	27.88	14157	3040	**CH082**	112M4	**PH082**	182/184TC
	60	1.4	5070	29.33	7078	2697	**CH062**	112M4	**PH062**	182/184TC
	56	2.6	5384	31.15	14157	3215	**CH082**	112M4	**PH082**	182/184TC
	55	1.4	5531	32.00	7521	2697	**CH062**	112M4	**PH062**	182/184TC
	51	2.4	5941	34.38	14157	3375	**CH082**	112M4	**PH082**	182/184TC
	47	1.1	6393	36.99	7078	2697	**CH062**	112M4	**PH062**	182/184TC
	46	3.7	6646	38.45	24775	4588	**PH123**	112M4	**PH102**	182/184TC
	45	2.1	6689	38.70	14157	3575	**CH082**	112M4	**PH082**	182/184TC
	43	1.1	6971	40.33	7521	2697	**CH062**	112M4	**PH062**	182/184TC
	41	1.9	7388	42.75	14157	3749	**CH082**	112M4	**PH082**	182/184TC
	38	3.7	7919	45.82	29199	4577	**PH123**	112M4	**PH102**	182/184TC
	36	1.7	8319	48.13	14157	3965	**CH082**	112M4	**PH082**	182/184TC
	34	3.3	8903	51.52	29199	4868	**PH123**	112M4	**PH102**	182/184TC
	31	1.5	9566	56.53	14157	4045	**CH083**	112M4	**PH083**	182/184TC
	26	3.9	11393	67.32	44240	6742	**CH123**	112M4	**PH123**	182/184TC
	25	2.6	11793	69.69	30968	4944	**CH103**	112M4	**PH103**	182/184TC
	24	1.3	12097	71.48	15927	4045	**CH083**	112M4	**PH083**	182/184TC
	24	3.5	12474	73.71	44240	6742	**CH123**	112M4	**PH123**	182/184TC
	22	1.2	13347	78.87	15927	4045	**CH083**	112M4	**PH083**	182/184TC
	22	2.3	13507	79.82	30968	4944	**CH103**	112M4	**PH103**	182/184TC
	21	3.1	14103	83.34	44240	6742	**CH123**	112M4	**PH123**	182/184TC
	21	2.2	14242	84.16	30968	4944	**CH103**	112M4	**PH103**	182/184TC
	20	1.1	14479	85.56	15927	4045	**CH083**	112M4	**PH083**	182/184TC
	19	2.0	15800	93.36	30968	4944	**CH103**	112M4	**PH103**	182/184TC
	19	2.9	15226	89.97	44240	6742	**CH123**	112M4	**PH123**	182/184TC
	17	1.8	16934	100.07	30968	4944	**CH103**	112M4	**PH103**	182/184TC
	17	2.6	16971	100.29	44240	6742	**CH123**	112M4	**PH123**	182/184TC
	16	2.4	18335	108.34	44240	6742	**CH123**	112M4	**PH123**	182/184TC
	15	2.2	20074	118.62	44240	6742	**CH123**	112M4	**PH123**	182/184TC
	14	1.5	20450	120.84	30968	4944	**CH103**	112M4	**PH103**	182/184TC
	14	2.0	21691	128.18	44240	6742	**CH123**	112M4	**PH123**	182/184TC
	13	1.4	22687	134.06	30968	4944	**CH103**	112M4	**PH103**	182/184TC
	12	1.3	24270	143.42	30968	4944	**CH103**	112M4	**PH103**	182/184TC
	12	1.8	24502	144.79	44240	6742	**CH123**	112M4	**PH123**	182/184TC
	11	1.1	27216	160.82	30968	4944	**CH103**	112M4	**PH103**	182/184TC
	11	1.7	26268	155.22	44240	6742	**CH123**	112M4	**PH123**	182/184TC
	10	1.5	29243	172.80	44240	6742	**CH123**	112M4	**PH123**	182/184TC
	9.7	1.0	30643	181.07	30968	4944	**CH103**	112M4	**PH103**	182/184TC
	9.2	1.4	32017	189.19	44240	6742	**CH123**	112M4	**PH123**	182/184TC
	8.4	1.0	43987	207.40	44240	6742	**CH123**	112M4	**PH123**	182/184TC



MOTOVARIO™

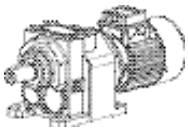
H Gearmotor Ratings – Motor Speed 1750 RPM

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
5.0	7.6	1.1	39079	230.92	44240	6742	**CH123**	112M4	**PH123**	182/184TC
	6.7	1.0	43938	259.64	44240	6742	**CH123**	112M4	**PH123**	182/184TC
7.5	906	4.0	506	1.93	2035	539	**CH081**	132S4	**PH081**	213/215TC
	689	3.7	666	2.54	2477	564	**CH081**	132S4	**PH081**	213/215TC
	538	3.2	851	3.25	2743	606	**CH081**	132S4	**PH081**	213/215TC
	470	2.8	975	3.72	2743	647	**CH081**	132S4	**PH081**	213/215TC
	438	2.7	1048	4.00	2831	660	**CH081**	132S4	**PH081**	213/215TC
	375	2.3	1222	4.67	2831	710	**CH081**	132S4	**PH081**	213/215TC
	326	3.2	1393	5.38	4424	1586	**CH062**	132S4	**PH062**	213/215TC
	316	2.0	1451	5.54	2920	759	**CH081**	132S4	**PH081**	213/215TC
	295	3.2	1539	5.93	4866	1596	**CH062**	132S4	**PH062**	213/215TC
	288	1.9	1594	6.08	3008	783	**CH081**	132S4	**PH081**	213/215TC
	237	2.5	1916	7.39	4866	1769	**CH062**	132S4	**PH062**	213/215TC
	233	1.6	1965	7.50	3097	852	**CH081**	132S4	**PH081**	213/215TC
	232	2.9	1976	7.60	5751	1073	**CH101**	132S4	**PH101**	213/215TC
	208	2.6	2200	8.40	5751	1124	**CH101**	132S4	**PH101**	213/215TC
	207	1.4	2212	8.44	3097	898	**CH081**	132S4	**PH081**	213/215TC
	206	2.4	2204	8.50	5309	1821	**CH062**	132S4	**PH062**	213/215TC
	198	3.5	2294	8.85	7963	2283	**CH082**	132S4	**PH082**	213/215TC
	186	2.2	2433	9.39	5309	1908	**CH062**	132S4	**PH062**	213/215TC
	159	3.4	2853	11.01	9733	2316	**CH082**	132S4	**PH082**	213/215TC
	150	1.9	3030	11.69	5751	2045	**CH062**	132S4	**PH062**	213/215TC
	138	1.9	3284	12.67	6194	2057	**CH062**	132S4	**PH062**	213/215TC
	130	3.5	3500	13.50	12387	2248	**CH082**	132S4	**PH082**	213/215TC
	119	1.6	3824	14.75	6194	2211	**CH062**	132S4	**PH062**	213/215TC
	117	3.4	3862	14.90	13272	2267	**CH082**	132S4	**PH082**	213/215TC
	107	1.7	4222	16.29	7078	2184	**CH062**	132S4	**PH062**	213/215TC
	105	3.1	4307	16.62	13272	2407	**CH082**	132S4	**PH082**	213/215TC
	99	1.6	4580	17.67	7344	2232	**CH062**	132S4	**PH062**	213/215TC
	94	2.8	4803	18.53	13272	2551	**CH082**	132S4	**PH082**	213/215TC
	90	2.8	5025	19.38	14157	2510	**CH082**	132S4	**PH082**	213/215TC
	86	1.4	5258	20.28	7521	2361	**CH062**	132S4	**PH062**	213/215TC
	82	2.6	5545	21.39	14157	2648	**CH082**	132S4	**PH082**	213/215TC
	77	2.4	5911	22.80	14157	2739	**CH082**	132S4	**PH082**	213/215TC
	75	1.2	6033	23.27	7521	2522	**CH062**	132S4	**PH062**	213/215TC
	68	1.1	6662	25.70	7521	2643	**CH062**	132S4	**PH062**	213/215TC
	66	2.1	6896	26.60	14157	2968	**CH082**	132S4	**PH082**	213/215TC
	63	2.0	7228	27.88	14157	3040	**CH082**	132S4	**PH082**	213/215TC
	61	3.9	7447	28.73	29199	3522	**PH123**	132S4	**PH102**	213/215TC
	57	3.6	7964	30.72	28314	3749	**PH123**	132S4	**PH102**	213/215TC
	56	1.8	8076	31.15	14157	3215	**CH082**	132S4	**PH082**	213/215TC
	51	3.2	8866	34.20	28314	3983	**PH123**	132S4	**PH102**	213/215TC
	51	1.6	8912	34.38	14157	3375	**CH082**	132S4	**PH082**	213/215TC
	46	2.5	9969	38.45	24775	4588	**PH123**	132S4	**PH102**	213/215TC



Gearmotor Ratings – Motor Speed 1750 RPM H

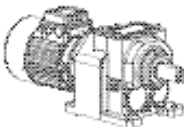
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
7.5	45	1.4	10034	38.70	14157	3575	**CH082**	132S4	**PH082**	213/215TC
	42	2.7	10707	41.30	29199	4328	**PH123**	132S4	**PH102**	213/215TC
	41	1.3	11083	42.75	14157	3749	**CH082**	132S4	**PH082**	213/215TC
	40	3.9	11433	44.10	44240	6742	**CH122**	132S4	**PH122**	213/215TC
	38	3.8	11619	45.77	44240	6742	**CH123**	132S4	**PH123**	213/215TC
	38	2.5	11878	45.82	29199	4577	**PH123**	132S4	**PH102**	213/215TC
	36	1.1	12478	48.13	14157	3965	**CH082**	132S4	**PH082**	213/215TC
	34	2.2	13355	51.52	29199	4868	**PH123**	132S4	**PH102**	213/215TC
	32	2.2	14082	55.47	30968	4888	**CH103**	132S4	**PH103**	213/215TC
	31	3.1	14182	55.87	44240	6742	**CH123**	132S4	**PH123**	213/215TC
	26	2.6	17090	67.32	44240	6742	**CH123**	132S4	**PH123**	213/215TC
	25	1.8	17690	69.69	30968	4944	**CH103**	132S4	**PH103**	213/215TC
	25	3.9	18112	71.35	70785	10957	-	-	**PH143**	213/215TC
	24	2.4	18711	73.71	44240	6742	**CH123**	132S4	**PH123**	213/215TC
	22	1.5	20261	79.82	30968	4944	**CH103**	132S4	**PH103**	213/215TC
	22	3.5	20073	79.07	70785	11520	-	-	**PH143**	213/215TC
	21	1.4	21363	84.16	30968	4944	**CH103**	132S4	**PH103**	213/215TC
	21	2.1	21154	83.34	44240	6742	**CH123**	132S4	**PH123**	213/215TC
	20	3.2	21940	86.43	70785	12024	-	-	**PH143**	213/215TC
	19	1.3	23700	93.36	30968	4944	**CH103**	132S4	**PH103**	213/215TC
	19	1.9	22838	89.97	44240	6742	**CH123**	132S4	**PH123**	213/215TC
	18	2.9	24421	96.21	70785	12360	-	-	**PH143**	213/215TC
	17	1.2	25401	100.07	30968	4944	**CH103**	132S4	**PH103**	213/215TC
	17	1.7	25457	100.29	44240	6742	**CH123**	132S4	**PH123**	213/215TC
	17	2.7	26529	104.51	70785	12360	-	-	**PH143**	213/215TC
	16	1.6	27502	108.34	44240	6742	**CH123**	132S4	**PH123**	213/215TC
	15	1.5	30111	118.62	44240	6742	**CH123**	132S4	**PH123**	213/215TC
	15	2.4	29426	115.92	70785	12360	-	-	**PH143**	213/215TC
	14	1.0	30675	120.84	30968	4944	**CH103**	132S4	**PH103**	213/215TC
	14	1.4	32537	128.18	44240	6742	**CH123**	132S4	**PH123**	213/215TC
	14	2.2	32610	128.47	70785	12360	-	-	**PH143**	213/215TC
	13	2.0	35425	139.55	70785	12360	-	-	**PH143**	213/215TC
	12	1.2	36753	144.79	44240	6742	**CH123**	132S4	**PH123**	213/215TC
	11	1.1	39402	155.22	44240	6742	**CH123**	132S4	**PH123**	213/215TC
	11	1.8	39176	154.33	70785	12360	-	-	**PH143**	213/215TC
	10	1.0	43864	172.80	44240	6742	**CH123**	132S4	**PH123**	213/215TC
	9.4	1.5	47204	185.96	70785	12360	-	-	**PH143**	213/215TC
	8.5	1.4	52312	206.08	70785	12360	-	-	**PH143**	213/215TC
10	1349	3.9	453	1.30	1770	474	**CH081**	132L4	**PH081**	213/215TC
	1225	3.9	499	1.43	1947	477	**CH081**	132L4	**PH081**	213/215TC
	906	3.0	674	1.93	2035	539	**CH081**	132L4	**PH081**	213/215TC
	689	2.8	888	2.54	2477	564	**CH081**	132L4	**PH081**	213/215TC
	538	2.4	1135	3.25	2743	606	**CH081**	132L4	**PH081**	213/215TC



MOTOVARIO™

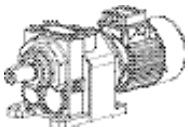
H Gearmotor Ratings – Motor Speed 1750 RPM

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	470	2.1	1300	3.72	2743	647	**CH081**	132L4	**PH081**	213/215TC
	438	2.0	1397	4.00	2831	660	**CH081**	132L4	**PH081**	213/215TC
	414	3.7	1475	4.22	5397	844	**CH101**	132L4	**PH101**	213/215TC
	375	1.7	1630	4.67	2831	710	**CH081**	132L4	**PH081**	213/215TC
	359	3.2	1703	4.88	5486	896	**CH101**	132L4	**PH101**	213/215TC
	332	3.0	1839	5.27	5486	928	**CH101**	132L4	**PH101**	213/215TC
	326	2.4	1858	5.38	4424	1586	**CH062**	132L4	**PH062**	213/215TC
	325	3.3	1863	5.39	6194	2004	**CH082**	132L4	**PH082**	213/215TC
	316	1.5	1934	5.54	2920	759	**CH081**	132L4	**PH081**	213/215TC
	295	2.4	2051	5.93	4866	1596	**CH062**	132L4	**PH062**	213/215TC
	294	3.0	2055	5.95	6194	2094	**CH082**	132L4	**PH082**	213/215TC
	288	1.4	2125	6.08	3008	783	**CH081**	132L4	**PH081**	213/215TC
	281	2.6	2176	6.23	5663	990	**CH101**	132L4	**PH101**	213/215TC
	237	1.9	2555	7.39	4866	1769	**CH062**	132L4	**PH062**	213/215TC
	237	2.8	2556	7.39	7078	2201	**CH082**	132L4	**PH082**	213/215TC
	233	1.2	2619	7.50	3097	852	**CH081**	132L4	**PH081**	213/215TC
	232	2.2	2635	7.60	5751	1073	**CH101**	132L4	**PH101**	213/215TC
	227	3.3	2689	7.70	8848	1348	**CH121**	132L4	**PH121**	213/215TC
	218	2.6	2773	8.02	7078	2283	**CH082**	132L4	**PH082**	213/215TC
	208	2.0	2934	8.40	5751	1124	**CH101**	132L4	**PH101**	213/215TC
	207	1.1	2949	8.44	3097	898	**CH081**	132L4	**PH081**	213/215TC
	206	1.8	2938	8.50	5309	1821	**CH062**	132L4	**PH062**	213/215TC
	198	2.6	3059	8.85	7963	2283	**CH082**	132L4	**PH082**	213/215TC
	186	1.6	3244	9.39	5309	1908	**CH062**	132L4	**PH062**	213/215TC
	159	2.6	3805	11.01	9733	2316	**CH082**	132L4	**PH082**	213/215TC
	150	1.4	4040	11.69	5751	2045	**CH062**	132L4	**PH062**	213/215TC
	138	1.4	4378	12.67	6194	2057	**CH062**	132L4	**PH062**	213/215TC
	130	2.7	4666	13.50	12387	2248	**CH082**	132L4	**PH082**	213/215TC
	119	1.2	5098	14.75	6194	2211	**CH062**	132L4	**PH062**	213/215TC
	117	2.6	5149	14.90	13272	2267	**CH082**	132L4	**PH082**	213/215TC
	107	1.3	5630	16.29	7078	2184	**CH062**	132L4	**PH062**	213/215TC
	105	2.3	5743	16.62	13272	2407	**CH082**	132L4	**PH082**	213/215TC
	99	1.2	6107	17.67	7344	2232	**CH062**	132L4	**PH062**	213/215TC
	94	2.1	6403	18.53	13272	2551	**CH082**	132L4	**PH082**	213/215TC
	90	2.1	6700	19.38	14157	2510	**CH082**	132L4	**PH082**	213/215TC
	86	1.1	7010	20.28	7521	2361	**CH062**	132L4	**PH062**	213/215TC
	82	1.9	7393	21.39	14157	2648	**CH082**	132L4	**PH082**	213/215TC
	82	3.8	7412	21.44	28314	3025	**PH123**	132L4	**PH102**	213/215TC
	77	1.8	7881	22.80	14157	2739	**CH082**	132L4	**PH082**	213/215TC
	73	3.5	8285	23.97	29199	3155	**PH123**	132L4	**PH102**	213/215TC
	68	3.3	8951	25.89	29199	3309	**PH123**	132L4	**PH102**	213/215TC
	66	1.5	9195	26.60	14157	2968	**CH082**	132L4	**PH082**	213/215TC
	63	1.5	9638	27.88	14157	3040	**CH082**	132L4	**PH082**	213/215TC
	61	2.9	9930	28.73	29199	3522	**PH123**	132L4	**PH102**	213/215TC
	57	2.7	10619	30.72	28314	3749	**PH123**	132L4	**PH102**	213/215TC



Gearmotor Ratings – Motor Speed 1750 RPM H

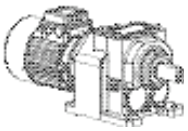
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
10	56	1.3	10769	31.15	14157	3215	**CH082**	132L4	**PH082**	213/215TC
	53	3.9	11407	33.00	44240	5895	**CH122**	132L4	**PH122**	213/215TC
	51	1.2	11882	34.38	14157	3375	**CH082**	132L4	**PH082**	213/215TC
	51	2.4	11822	34.20	28314	3983	**PH123**	132L4	**PH102**	213/215TC
	48	3.5	12489	36.13	44240	6184	**CH122**	132L4	**PH122**	213/215TC
	46	1.9	13291	38.45	24775	4588	**PH123**	132L4	**PH102**	213/215TC
	45	1.1	13378	38.70	14157	3575	**CH082**	132L4	**PH082**	213/215TC
	42	2.0	14276	41.30	29199	4328	**PH123**	132L4	**PH102**	213/215TC
	40	2.9	15244	44.10	44240	6742	**CH122**	132L4	**PH122**	213/215TC
	38	1.8	15838	45.82	29199	4577	**PH123**	132L4	**PH102**	213/215TC
	38	2.9	15492	45.77	44240	6742	**CH123**	132L4	**PH123**	213/215TC
	34	1.6	17807	51.52	29199	4868	**PH123**	132L4	**PH102**	213/215TC
	33	3.9	18117	53.53	70785	9478	-	-	**PH143**	213/215TC
	32	1.6	18775	55.47	30968	4888	**CH103**	132L4	**PH103**	213/215TC
	31	2.3	18909	55.87	44240	6742	**CH123**	132L4	**PH123**	213/215TC
	30	3.5	20043	59.22	70785	9982	-	-	**PH143**	213/215TC
	28	3.3	21320	62.99	70785	10299	-	-	**PH143**	213/215TC
	26	1.9	22787	67.32	44240	6742	**CH123**	132L4	**PH123**	213/215TC
	25	1.3	23587	69.69	30968	4944	**CH103**	132L4	**PH103**	213/215TC
	25	2.9	24150	71.35	70785	10957	-	-	**PH143**	213/215TC
	24	1.8	24948	73.71	44240	6742	**CH123**	132L4	**PH123**	213/215TC
	22	1.1	27014	79.82	30968	4944	**CH103**	132L4	**PH103**	213/215TC
	22	2.6	26763	79.07	70785	11520	-	-	**PH143**	213/215TC
	21	1.1	28484	84.16	30968	4944	**CH103**	132S4	**PH103**	213/215TC
	21	1.6	28206	83.34	44240	6742	**CH123**	132L4	**PH123**	213/215TC
	20	2.4	29254	86.43	70785	12024	-	-	**PH143**	213/215TC
	19	1.5	30451	89.97	44240	6742	**CH123**	132L4	**PH123**	213/215TC
	18	2.2	32562	96.21	70785	12360	-	-	**PH143**	213/215TC
	17	1.3	33943	100.29	44240	6742	**CH123**	132L4	**PH123**	213/215TC
	17	2.0	35372	104.51	70785	12360	-	-	**PH143**	213/215TC
	16	1.2	36670	108.34	44240	6742	**CH123**	132L4	**PH123**	213/215TC
	15	1.1	40149	118.62	44240	6742	**CH123**	132L4	**PH123**	213/215TC
	15	1.8	39234	115.92	70785	12360	-	-	**PH143**	213/215TC
	14	1.0	43382	128.18	44240	6742	**CH123**	132L4	**PH123**	213/215TC
	14	1.6	43480	128.47	70785	12360	-	-	**PH143**	213/215TC
	13	1.5	47233	139.55	70785	12360	-	-	**PH143**	213/215TC
	11	1.4	52234	154.33	70785	12360	-	-	**PH143**	213/215TC
	9.4	1.1	62938	185.96	70785	12360	-	-	**PH143**	213/215TC
	8.5	1.0	69750	206.08	70785	12360	-	-	**PH143**	213/215TC
15	861	3.7	1065	2.03	3982	679	-	-	**PH101**	254/256TC
	705	3.7	1300	2.48	4866	686	-	-	**PH101**	254/256TC
	535	3.1	1715	3.27	5309	753	-	-	**PH101**	254/256TC
	473	2.7	1938	3.70	5309	798	-	-	**PH101**	254/256TC
	425	3.5	2157	4.12	7521	1078	-	-	**PH121**	254/256TC



MOTOVARIO™

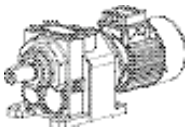
H Gearmotor Ratings – Motor Speed 1750 RPM

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	414	2.4	2212	4.22	5397	844	-	-	**PH101**	254/256TC
	365	3.1	2515	4.80	7698	1146	-	-	**PH121**	254/256TC
	359	2.1	2554	4.88	5486	896	-	-	**PH101**	254/256TC
	336	2.9	2732	5.21	7786	1185	-	-	**PH121**	254/256TC
	332	2.0	2759	5.27	5486	928	-	-	**PH101**	254/256TC
	325	2.2	2794	5.39	6194	2004	-	-	**PH082**	254/256TC
	294	2.0	3083	5.95	6194	2094	-	-	**PH082**	254/256TC
	281	1.7	3264	6.23	5663	990	-	-	**PH101**	254/256TC
	280	2.4	3274	6.25	7963	1276	-	-	**PH121**	254/256TC
	237	1.8	3834	7.39	7078	2201	-	-	**PH082**	254/256TC
	232	1.5	3953	7.60	5751	1073	-	-	**PH101**	254/256TC
	227	2.2	4034	7.70	8848	1348	-	-	**PH121**	254/256TC
	218	1.7	4159	8.02	7078	2283	-	-	**PH082**	254/256TC
	208	1.3	4401	8.40	5751	1124	-	-	**PH101**	254/256TC
	198	1.7	4589	8.85	7963	2283	-	-	**PH082**	254/256TC
	159	1.7	5707	11.01	9733	2316	-	-	**PH082**	254/256TC
	131	4.0	6909	13.32	27429	2274	-	-	**PH102**	254/256TC
	130	1.8	7000	13.50	12387	2248	-	-	**PH082**	254/256TC
	117	1.7	7723	14.90	13272	2267	-	-	**PH082**	254/256TC
	109	3.4	8343	16.09	28314	2505	-	-	**PH102**	254/256TC
	105	1.5	8615	16.62	13272	2407	-	-	**PH082**	254/256TC
	98	3.1	9256	17.85	28314	2687	-	-	**PH102**	254/256TC
	94	1.4	9605	18.53	13272	2551	-	-	**PH082**	254/256TC
	90	1.4	10051	19.38	14157	2510	-	-	**PH082**	254/256TC
	88	2.8	10291	19.85	28314	2880	-	-	**PH102**	254/256TC
	82	1.3	11090	21.39	14157	2648	-	-	**PH082**	254/256TC
	82	2.5	11118	21.44	28314	3025	-	-	**PH102**	254/256TC
	77	1.2	11822	22.80	14157	2739	-	-	**PH082**	254/256TC
	73	2.3	12428	23.97	29199	3155	-	-	**PH102**	254/256TC
	72	3.5	12686	24.47	44240	5001	-	-	**PH122**	254/256TC
	68	2.2	13426	25.89	29199	3309	-	-	**PH102**	254/256TC
	66	1.0	13792	26.60	14157	2968	-	-	**PH082**	254/256TC
	64	3.1	14254	27.49	44240	5339	-	-	**PH122**	254/256TC
	61	2.0	14895	28.73	29199	3522	-	-	**PH102**	254/256TC
	59	2.9	15484	29.86	44240	5587	-	-	**PH122**	254/256TC
	57	1.8	15928	30.72	28314	3749	-	-	**PH102**	254/256TC
	53	2.6	17110	33.00	44240	5895	-	-	**PH122**	254/256TC
	51	1.6	17732	34.20	28314	3983	-	-	**PH102**	254/256TC
	48	2.4	18733	36.13	44240	6184	-	-	**PH122**	254/256TC
	45	3.5	20143	38.85	70785	7987	-	-	**PH142**	254/256TC
	42	1.4	21414	41.30	29199	4328	-	-	**PH102**	254/256TC
	41	3.2	22323	43.05	70785	8448	-	-	**PH142**	254/256TC
	40	1.9	22865	44.10	44240	6742	-	-	**PH122**	254/256TC
	38	1.2	23756	45.82	29199	4577	-	-	**PH102**	254/256TC
	38	1.9	23238	45.77	44240	6742	-	-	**PH123**	254/256TC



Gearmotor Ratings – Motor Speed 1750 RPM H

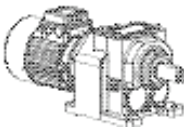
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
15	36	2.9	24545	48.35	70785	8988	-	-	**PH143**	254/256TC
	33	2.6	27175	53.53	70785	9478	-	-	**PH143**	254/256TC
	32	1.1	28163	55.47	30968	4888	-	-	**PH103**	254/256TC
	31	1.6	28364	55.87	44240	6742	-	-	**PH123**	254/256TC
	30	2.4	30064	59.22	70785	9982	-	-	**PH143**	254/256TC
	28	2.2	31980	62.99	70785	10299	-	-	**PH143**	254/256TC
	26	1.3	34180	67.32	44240	6742	-	-	**PH123**	254/256TC
	25	2.0	36225	71.35	70785	10957	-	-	**PH143**	254/256TC
	24	1.2	37423	73.71	44240	6742	-	-	**PH123**	254/256TC
	22	1.8	40145	79.07	70785	11520	-	-	**PH143**	254/256TC
	21	1.0	42308	83.34	44240	6742	-	-	**PH123**	254/256TC
	20	1.6	43880	86.43	70785	12024	-	-	**PH143**	254/256TC
	18	1.4	48843	96.21	70785	12360	-	-	**PH143**	254/256TC
	17	1.3	53058	104.51	70785	12360	-	-	**PH143**	254/256TC
	15	1.2	58851	115.92	70785	12360	-	-	**PH143**	254/256TC
	14	1.1	65220	128.47	70785	12360	-	-	**PH143**	254/256TC
	13	1.0	70850	139.55	70785	12360	-	-	**PH143**	254/256TC
20	1354	3.9	903	1.29	3539	578	-	-	**PH101**	254/256TC
	1241	4.0	985	1.41	3982	573	-	-	**PH101**	254/256TC
	861	2.8	1420	2.03	3982	679	-	-	**PH101**	254/256TC
	705	2.8	1733	2.48	4866	686	-	-	**PH101**	254/256TC
	592	3.4	2064	2.95	7078	947	-	-	**PH121**	254/256TC
	557	3.3	2195	3.14	7255	964	-	-	**PH121**	254/256TC
	535	2.3	2286	3.27	5309	753	-	-	**PH101**	254/256TC
	489	3.0	2500	3.58	7521	1010	-	-	**PH121**	254/256TC
	473	2.1	2585	3.70	5309	798	-	-	**PH101**	254/256TC
	425	2.6	2876	4.12	7521	1078	-	-	**PH121**	254/256TC
	414	1.8	2949	4.22	5397	844	-	-	**PH101**	254/256TC
	365	2.3	3353	4.80	7698	1146	-	-	**PH121**	254/256TC
	359	1.6	3405	4.88	5486	896	-	-	**PH101**	254/256TC
	336	2.1	3642	5.21	7786	1185	-	-	**PH121**	254/256TC
	332	1.5	3679	5.27	5486	928	-	-	**PH101**	254/256TC
	325	1.7	3725	5.39	6194	2004	-	-	**PH082**	254/256TC
	294	1.5	4111	5.95	6194	2094	-	-	**PH082**	254/256TC
	281	1.3	4352	6.23	5663	990	-	-	**PH101**	254/256TC
	280	1.8	4366	6.25	7963	1276	-	-	**PH121**	254/256TC
	275	4.0	4394	6.36	17696	2146	-	-	**PH102**	254/256TC
	237	1.4	5112	7.39	7078	2201	-	-	**PH082**	254/256TC
	232	1.1	5271	7.60	5751	1073	-	-	**PH101**	254/256TC
	227	1.6	5379	7.70	8848	1348	-	-	**PH121**	254/256TC
	218	1.3	5545	8.02	7078	2283	-	-	**PH082**	254/256TC
	212	3.9	5720	8.27	22120	2070	-	-	**PH102**	254/256TC



MOTOVARIO™

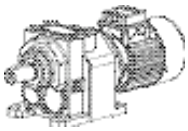
H Gearmotor Ratings – Motor Speed 1750 RPM

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
20	198	1.3	6119	8.85	7963	2283	-	-	**PH082**	254/256TC
	175	3.6	6908	9.99	24775	2084	-	-	**PH102**	254/256TC
	159	1.3	7609	11.01	9733	2316	-	-	**PH082**	254/256TC
	158	3.5	7663	11.09	26544	2070	-	-	**PH102**	254/256TC
	131	3.0	9212	13.32	27429	2274	-	-	**PH102**	254/256TC
	130	1.3	9333	13.50	12387	2248	-	-	**PH082**	254/256TC
	117	1.3	10298	14.90	13272	2267	-	-	**PH082**	254/256TC
	109	2.5	11124	16.09	28314	2505	-	-	**PH102**	254/256TC
	105	1.2	11487	16.62	13272	2407	-	-	**PH082**	254/256TC
	103	3.6	11698	16.92	42471	4158	-	-	**PH122**	254/256TC
	98	2.3	12341	17.85	28314	2687	-	-	**PH102**	254/256TC
	94	1.0	12807	18.53	13272	2551	-	-	**PH082**	254/256TC
	91	3.3	13357	19.32	44240	4354	-	-	**PH122**	254/256TC
	90	1.1	13401	19.38	14157	2510	-	-	**PH082**	254/256TC
	88	2.1	13721	19.85	28314	2880	-	-	**PH102**	254/256TC
	85	3.1	14221	20.57	44240	4521	-	-	**PH122**	254/256TC
	82	1.9	14824	21.44	28314	3025	-	-	**PH102**	254/256TC
	78	2.8	15571	22.52	44240	4768	-	-	**PH122**	254/256TC
	73	1.8	16570	23.97	29199	3155	-	-	**PH102**	254/256TC
	72	2.6	16915	24.47	44240	5001	-	-	**PH122**	254/256TC
	68	1.6	17901	25.89	29199	3309	-	-	**PH102**	254/256TC
	65	3.8	18502	26.76	70785	6441	-	-	**PH142**	254/256TC
	64	2.3	19005	27.49	44240	5339	-	-	**PH122**	254/256TC
	61	1.5	19860	28.73	29199	3522	-	-	**PH102**	254/256TC
	59	2.1	20645	29.86	44240	5587	-	-	**PH122**	254/256TC
	57	1.3	21238	30.72	28314	3749	-	-	**PH102**	254/256TC
	54	3.2	22290	32.24	70785	7190	-	-	**PH142**	254/256TC
	53	1.9	22814	33.00	44240	5895	-	-	**PH122**	254/256TC
	51	1.2	23643	34.20	28314	3983	-	-	**PH102**	254/256TC
	48	1.8	24978	36.13	44240	6184	-	-	**PH122**	254/256TC
	45	2.6	26858	38.85	70785	7987	-	-	**PH142**	254/256TC
	42	1.0	28552	41.30	29199	4328	-	-	**PH102**	254/256TC
	41	2.4	29764	43.05	70785	8448	-	-	**PH142**	254/256TC
	40	1.5	30487	44.10	44240	6742	-	-	**PH122**	254/256TC
	38	1.4	30984	45.77	44240	6742	-	-	**PH123**	254/256TC
	36	2.2	32727	48.35	70785	8988	-	-	**PH143**	254/256TC
	33	2.0	36234	53.53	70785	9478	-	-	**PH143**	254/256TC
	31	1.2	37818	55.87	44240	6742	-	-	**PH123**	254/256TC
	30	1.8	40085	59.22	70785	9982	-	-	**PH143**	254/256TC
	28	1.7	42640	62.99	70785	10299	-	-	**PH143**	254/256TC
	25	1.5	48300	71.35	70785	10957	-	-	**PH143**	254/256TC
	22	1.3	53527	79.07	70785	11520	-	-	**PH143**	254/256TC
	20	1.2	58507	86.43	70785	12024	-	-	**PH143**	254/256TC
	18	1.1	65123	96.21	70785	12360	-	-	**PH143**	254/256TC
	17	1.0	70744	104.51	70785	12360	-	-	**PH143**	254/256TC



Gearmotor Ratings – Motor Speed 1750 RPM H

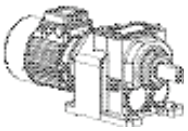
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
25	969	3.9	1577	1.81	6194	795	-	-	**PH121**	284/286TC
	875	3.8	1746	2.00	6636	808	-	-	**PH121**	284/286TC
	706	3.3	2165	2.48	7078	870	-	-	**PH121**	284/286TC
	592	2.7	2580	2.95	7078	947	-	-	**PH121**	284/286TC
	557	2.6	2744	3.14	7255	964	-	-	**PH121**	284/286TC
	489	2.4	3125	3.58	7521	1010	-	-	**PH121**	284/286TC
	425	2.1	3595	4.12	7521	1078	-	-	**PH121**	284/286TC
	365	1.8	4191	4.80	7698	1146	-	-	**PH121**	284/286TC
	336	1.7	4553	5.21	7786	1185			**PH121**	284/286TC
	333	3.5	4548	5.26	15927	2084	-	-	**PH102**	284/286TC
	280	1.5	5457	6.25	7963	1276			**PH121**	284/286TC
	275	3.2	5492	6.36	17696	2146	-	-	**PH102**	284/286TC
	248	3.3	6093	7.05	20351	2025	-	-	**PH102**	284/286TC
	227	1.3	6723	7.70	8848	1348			**PH121**	284/286TC
	212	3.1	7150	8.27	22120	2070	-	-	**PH102**	284/286TC
	175	2.9	8635	9.99	24775	2084	-	-	**PH102**	284/286TC
	158	2.8	9579	11.09	26544	2070	-	-	**PH102**	284/286TC
	138	3.6	10942	12.66	38932	3751	-	-	**PH122**	284/286TC
	131	2.4	11515	13.32	27429	2274	-	-	**PH102**	284/286TC
	126	3.4	11980	13.86	40701	3817	-	-	**PH122**	284/286TC
	109	2.0	13905	16.09	28314	2505	-	-	**PH102**	284/286TC
	103	2.9	14623	16.92	42471	4158	-	-	**PH122**	284/286TC
	98	1.8	15426	17.85	28314	2687	-	-	**PH102**	284/286TC
	91	2.6	16696	19.32	44240	4354	-	-	**PH122**	284/286TC
	88	1.7	17152	19.85	28314	2880	-	-	**PH102**	284/286TC
	85	2.5	17777	20.57	44240	4521	-	-	**PH122**	284/286TC
	82	1.5	18530	21.44	28314	3025	-	-	**PH102**	284/286TC
	78	2.3	19463	22.52	44240	4768	-	-	**PH122**	284/286TC
	73	1.4	20713	23.97	29199	3155	-	-	**PH102**	284/286TC
	72	3.4	20869	24.15	70785	6047	-	-	**PH142**	284/286TC
	68	1.3	22377	25.89	29199	3309	-	-	**PH102**	284/286TC
	65	3.1	23128	26.76	70785	6441	-	-	**PH142**	284/286TC
	64	1.9	23756	27.49	44240	5339	-	-	**PH122**	284/286TC
	61	1.2	24825	28.73	29199	3522	-	-	**PH102**	284/286TC
	57	1.1	26547	30.72	28314	3749			**PH102**	284/286TC
	54	2.5	27863	32.24	70785	7190	-	-	**PH142**	284/286TC
	45	2.1	33572	38.85	70785	7987	-	-	**PH142**	284/286TC
	41	1.9	37206	43.05	70785	8448	-	-	**PH142**	284/286TC
	38	1.1	38730	45.77	44240	6742	-	-	**PH122**	284/286TC
	36	1.7	40909	48.35	70785	8988	-	-	**PH143**	284/286TC
	33	1.6	45292	53.53	70785	9478	-	-	**PH143**	284/286TC
	30	1.4	50107	59.22	70785	9982	-	-	**PH143**	284/286TC
	28	1.3	53300	62.99	70785	10299	-	-	**PH143**	284/286TC
	25	1.2	60375	71.35	70785	10957	-	-	**PH143**	284/286TC
	22	1.1	66909	79.07	70785	11520	-	-	**PH143**	284/286TC



MOTOVARIO™

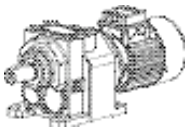
H Gearmotor Ratings – Motor Speed 1750 RPM

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
30	969	3.3	1893	1.81	6194	795	-	-	**PH121**	284/286TC
	875	3.2	2096	2.00	6636	808	-	-	**PH121**	284/286TC
	706	2.7	2598	2.48	7078	870	-	-	**PH121**	284/286TC
	592	2.3	3096	2.95	7078	947	-	-	**PH121**	284/286TC
	557	2.2	3293	3.14	7255	964	-	-	**PH121**	284/286TC
	489	2.0	3750	3.58	7521	1010	-	-	**PH121**	284/286TC
	425	1.7	4314	4.12	7521	1078	-	-	**PH121**	284/286TC
	365	1.5	5029	4.80	7698	1146	-	-	**PH121**	284/286TC
	336	1.4	5463	5.21	7786	1185			**PH121**	284/286TC
	333	2.9	5458	5.26	15927	2084	-	-	**PH102**	284/286TC
	280	1.2	6549	6.25	7963	1276			**PH121**	284/286TC
	275	2.7	6591	6.36	17696	2146	-	-	**PH102**	284/286TC
	248	2.8	7312	7.05	20351	2025	-	-	**PH102**	284/286TC
	227	1.1	8068	7.70	8848	1348			**PH121**	284/286TC
	212	2.6	8580	8.27	22120	2070	-	-	**PH102**	284/286TC
	206	3.8	8790	8.48	33623	3325	-	-	**PH122**	284/286TC
	175	2.4	10361	9.99	24775	2084	-	-	**PH102**	284/286TC
	169	3.3	10729	10.35	35392	3593	-	-	**PH122**	284/286TC
	158	2.3	11495	11.09	26544	2070	-	-	**PH102**	284/286TC
	138	3.0	13131	12.66	38932	3751	-	-	**PH122**	284/286TC
	131	2.0	13817	13.32	27429	2274	-	-	**PH102**	284/286TC
	126	2.8	14376	13.86	40701	3817	-	-	**PH122**	284/286TC
	109	1.7	16686	16.09	28314	2505	-	-	**PH102**	284/286TC
	103	2.4	17547	16.92	42471	4158	-	-	**PH122**	284/286TC
	100	3.9	18100	17.45	69900	4953	-	-	**PH142**	284/286TC
	98	1.5	18511	17.85	28314	2687	-	-	**PH102**	284/286TC
	91	2.2	20036	19.32	44240	4354	-	-	**PH122**	284/286TC
	88	1.4	20582	19.85	28314	2880	-	-	**PH102**	284/286TC
	87	3.4	20784	20.04	70785	5365	-	-	**PH142**	284/286TC
	85	2.1	21332	20.57	44240	4521	-	-	**PH122**	284/286TC
	82	1.3	22236	21.44	28314	3025	-	-	**PH102**	284/286TC
	78	1.9	23356	22.52	44240	4768	-	-	**PH122**	284/286TC
	73	1.2	24855	23.97	29199	3155	-	-	**PH102**	284/286TC
	72	2.8	25043	24.15	70785	6047	-	-	**PH142**	284/286TC
	68	1.1	26852	25.89	29199	3309	-	-	**PH102**	284/286TC
	65	2.6	27753	26.76	70785	6441	-	-	**PH142**	284/286TC
	64	1.6	28508	27.49	44240	5339	-	-	**PH122**	284/286TC
	54	2.1	33435	32.24	70785	7190	-	-	**PH142**	284/286TC
	45	1.8	40287	38.85	70785	7987	-	-	**PH142**	284/286TC
	41	1.6	44647	43.05	70785	8448	-	-	**PH142**	284/286TC
	36	1.4	49091	48.35	70785	8988	-	-	**PH143**	284/286TC
	33	1.3	54350	53.53	70785	9478	-	-	**PH143**	284/286TC
	30	1.2	60128	59.22	70785	9982	-	-	**PH143**	284/286TC
	28	1.1	63960	62.99	70785	10299	-	-	**PH143**	284/286TC



Gearmotor Ratings – Motor Speed 1750 RPM H

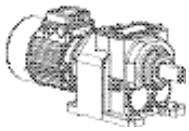
Input Power HP	Output Speed RPM	Service Factor sf	Output Torque in lbs.	Exact Ratio i	Maximum Torque in lbs.	OHL Output Shaft lbs.	Gearmotor Reducer	Gearmotor Motor	Gear Reducer Reducer	Gear Reducer NEMA C-face
40	969	2.5	2524	1.81	6194	795	-	-	**PH121**	324/326TC
	875	2.4	2794	2.00	6636	808	-	-	**PH121**	324/326TC
	706	2.0	3465	2.48	7078	870	-	-	**PH121**	324/326TC
	592	1.7	4128	2.95	7078	947	-	-	**PH121**	324/326TC
	557	1.7	4391	3.14	7255	964	-	-	**PH121**	324/326TC
	489	1.5	5000	3.58	7521	1010	-	-	**PH121**	324/326TC
	425	1.3	5753	4.12	7521	1078	-	-	**PH121**	324/326TC
	365	1.1	6706	4.80	7698	1146	-	-	**PH121**	324/326TC
	332	3.6	7293	5.27	26544	3024	-	-	**PH122**	324/326TC
	303	3.5	7985	5.78	28314	3037	-	-	**PH122**	324/326TC
	248	3.3	9746	7.05	31853	3111	-	-	**PH122**	324/326TC
	226	3.1	10704	7.74	32738	3218	-	-	**PH122**	324/326TC
	206	2.9	11720	8.48	33623	3325	-	-	**PH122**	324/326TC
	169	2.5	14305	10.35	35392	3593	-	-	**PH122**	324/326TC
	138	2.2	17507	12.66	38932	3751	-	-	**PH122**	324/326TC
	134	3.6	18073	13.07	64591	4422	-	-	**PH142**	324/326TC
	126	2.1	19168	13.86	40701	3817	-	-	**PH122**	324/326TC
	111	3.2	21777	15.75	69015	4678	-	-	**PH142**	324/326TC
	103	1.8	23396	16.92	42471	4158	-	-	**PH122**	324/326TC
	100	2.9	24133	17.45	69900	4953	-	-	**PH142**	324/326TC
	91	1.7	26714	19.32	44240	4354	-	-	**PH122**	324/326TC
	87	2.6	27712	20.04	70785	5365	-	-	**PH142**	324/326TC
	85	1.6	28443	20.57	44240	4521	-	-	**PH122**	324/326TC
	78	1.4	31141	22.52	44240	4768	-	-	**PH122**	324/326TC
	72	2.1	33391	24.15	70785	6047	-	-	**PH142**	324/326TC
	65	1.9	37004	26.76	70785	6441	-	-	**PH142**	324/326TC
	64	1.2	38010	27.49	44240	5339	-	-	**PH122**	324/326TC
	54	1.6	44580	32.24	70785	7190	-	-	**PH142**	324/326TC
	45	1.3	53716	38.85	70785	7987	-	-	**PH142**	324/326TC
	41	1.2	59529	43.05	70785	8448	-	-	**PH142**	324/326TC
	36	1.1	65454	48.35	70785	8988	-	-	**PH143**	324/326TC
50	969	2.0	3155	1.81	6194	795	-	-	**PH121**	324/326TC
	875	1.9	3493	2.00	6636	808	-	-	**PH121**	324/326TC
	706	1.6	4331	2.48	7078	870	-	-	**PH121**	324/326TC
	592	1.4	5160	2.95	7078	947	-	-	**PH121**	324/326TC
	557	1.3	5488	3.14	7255	964	-	-	**PH121**	324/326TC
	489	1.2	6250	3.58	7521	1010	-	-	**PH121**	324/326TC
	425	1.0	7191	4.12	7521	1078	-	-	**PH121**	324/326TC
	332	2.9	9116	5.27	26544	3024	-	-	**PH122**	324/326TC
	303	2.8	9981	5.78	28314	3037	-	-	**PH122**	324/326TC
	275	3.9	10984	6.36	43356	4060	-	-	**PH142**	324/326TC
	248	2.6	12183	7.05	31853	3111	-	-	**PH122**	324/326TC
	226	2.4	13380	7.74	32738	3218	-	-	**PH122**	324/326TC
	223	3.5	13555	7.84	46895	4319	-	-	**PH142**	324/326TC



MOTOVARIO™

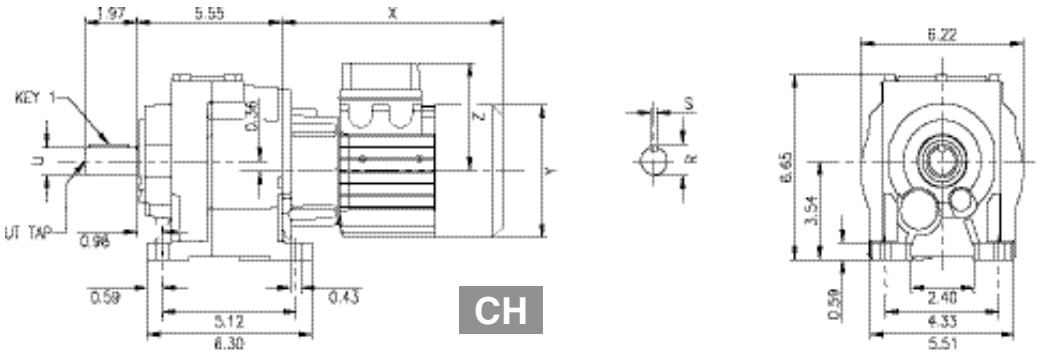
H Gearmotor Ratings – Motor Speed 1750 RPM

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
50	206	2.3	14650	8.48	33623	3325	-	-	**PH122**	324/326TC
	185	3.5	16332	9.45	57512	4013	-	-	**PH142**	324/326TC
	169	2.0	17881	10.35	35392	3593	-	-	**PH122**	324/326TC
	167	3.5	18100	10.47	63706	3831	-	-	**PH142**	324/326TC
	138	1.8	21884	12.66	38932	3751	-	-	**PH122**	324/326TC
	134	2.9	22591	13.07	64591	4422	-	-	**PH142**	324/326TC
	126	1.7	23961	13.86	40701	3817	-	-	**PH122**	324/326TC
	111	2.5	27221	15.75	69015	4678	-	-	**PH142**	324/326TC
	103	1.5	29245	16.92	42471	4158	-	-	**PH122**	324/326TC
	100	2.3	30167	17.45	69900	4953	-	-	**PH142**	324/326TC
	91	1.3	33393	19.32	44240	4354	-	-	**PH122**	324/326TC
	87	2.0	34640	20.04	70785	5365	-	-	**PH142**	324/326TC
	85	1.2	35554	20.57	44240	4521	-	-	**PH122**	324/326TC
	78	1.1	38927	22.52	44240	4768	-	-	**PH122**	324/326TC
	72	1.7	41738	24.15	70785	6047	-	-	**PH142**	324/326TC
	65	1.5	46256	26.76	70785	6441	-	-	**PH142**	324/326TC
	54	1.3	55725	32.24	70785	7190	-	-	**PH142**	324/326TC
	45	1.1	67144	38.85	70785	7987	-	-	**PH142**	324/326TC
60	332	3.7	10939	5.27	40701	3823	-	-	**PH142**	364/365TC
	275	3.3	13181	6.36	43356	4060	-	-	**PH142**	364/365TC
	248	3.0	14607	7.04	44240	4246	-	-	**PH142**	364/365TC
	223	2.9	16266	7.84	46895	4319	-	-	**PH142**	364/365TC
	185	2.9	19599	9.45	57512	4013	-	-	**PH142**	364/365TC
	167	2.9	21720	10.47	63706	3831	-	-	**PH142**	364/365TC
	134	2.4	27110	13.07	64591	4422	-	-	**PH142**	364/365TC
	111	2.1	32665	15.75	69015	4678	-	-	**PH142**	364/365TC
	100	1.9	36200	17.45	69900	4953	-	-	**PH142**	364/365TC
	87	1.7	41568	20.04	70785	5365	-	-	**PH142**	364/365TC
	72	1.4	50086	24.15	70785	6047	-	-	**PH142**	364/365TC
	65	1.3	55507	26.76	70785	6441	-	-	**PH142**	364/365TC
	54	1.1	66870	32.24	70785	7190	-	-	**PH142**	364/365TC
75	332	3.0	13674	5.27	40701	3823	-	-	**PH142**	364/365TC
	275	2.6	16476	6.36	43356	4060	-	-	**PH142**	364/365TC
	248	2.4	18259	7.04	44240	4246	-	-	**PH142**	364/365TC
	223	2.3	20332	7.84	46895	4319	-	-	**PH142**	364/365TC
	185	2.3	24499	9.45	57512	4013	-	-	**PH142**	364/365TC
	167	2.3	27150	10.47	63706	3831	-	-	**PH142**	364/365TC
	134	1.9	33887	13.07	64591	4422	-	-	**PH142**	364/365TC
	111	1.7	40831	15.75	69015	4678	-	-	**PH142**	364/365TC
	100	1.5	45250	17.45	69900	4953	-	-	**PH142**	364/365TC
	87	1.4	51960	20.04	70785	5365	-	-	**PH142**	364/365TC
	72	1.1	62608	24.15	70785	6047	-	-	**PH142**	364/365TC
	65	1.0	69383	26.76	70785	6441	-	-	**PH142**	364/365TC

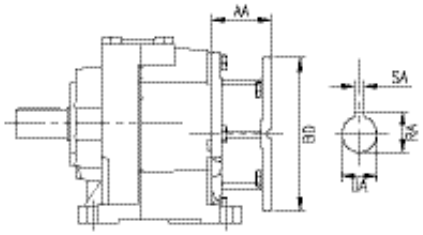


Notes H

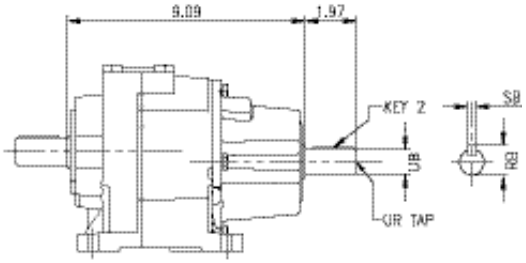
032/3 H Dimensions



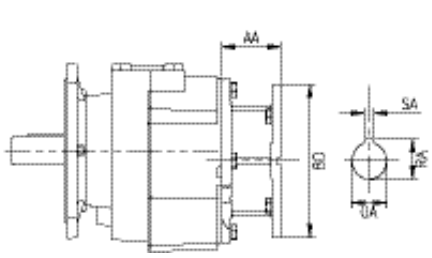
CH



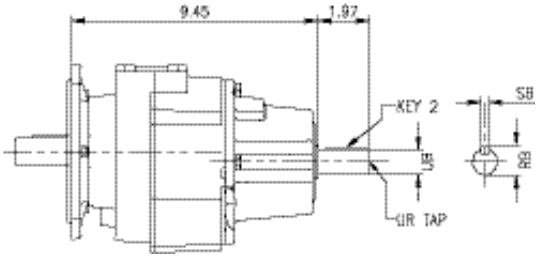
PH



IH



PH...F



IH...F

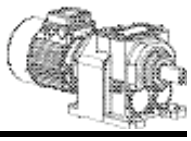
U	R	S	UT TAP	KEY 1	UB	RB	SB	UR TAP	KEY 2
1.000 $^{+0.0000}_{-0.0005}$	1.11	0.250	3/8-16	1/4 x 1/4 x 1-1/2	0.875 $^{+0.0000}_{-0.0005}$	0.96	0.1875	1/4-20	3/16x3/16x1-1/2
25mm $^{+0.009mm}_{-0.004mm}$	28mm	8mm	M10	8 x 7 x 35mm	24mm $^{+0.009mm}_{-0.004mm}$	27mm	8mm	M8	8x7x35mm

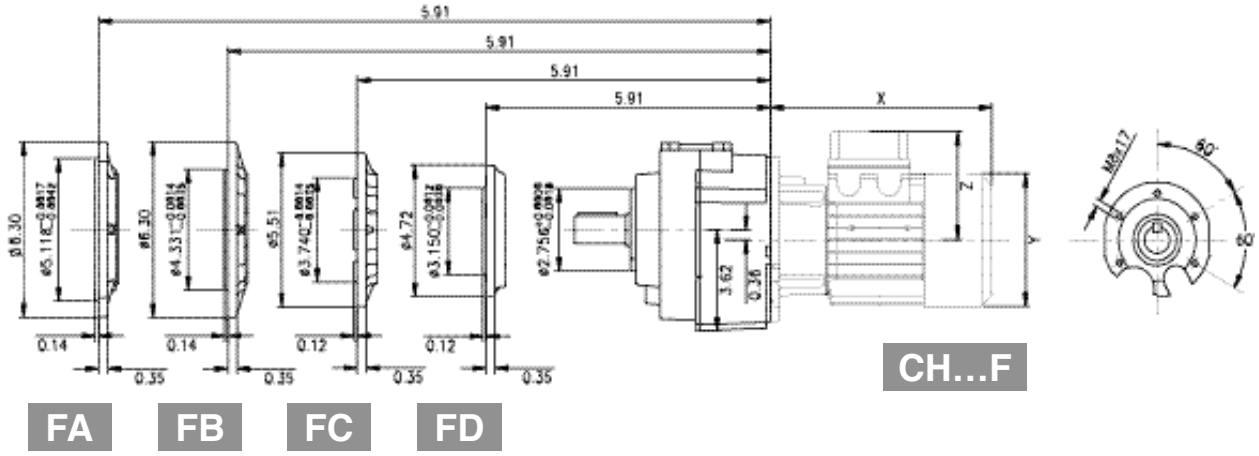
		Standard Motor			Brake Motor		
		X	Y	Z	X	Y	Z
IEC	063	8.41	4.76	4.07	10.75	4.76	4.07
	071	9.47	5.47	4.41	12.01	5.47	4.41
	080	10.53	6.22	4.78	13.41	6.22	4.78
	090S	11.65	6.81	5.10	14.67	6.81	5.10
	090L	12.64	6.81	5.10	15.65	6.81	5.10
	100	13.15	7.52	5.45	16.32	7.52	5.45
	112	13.94	8.29	6.04	17.62	8.29	6.04

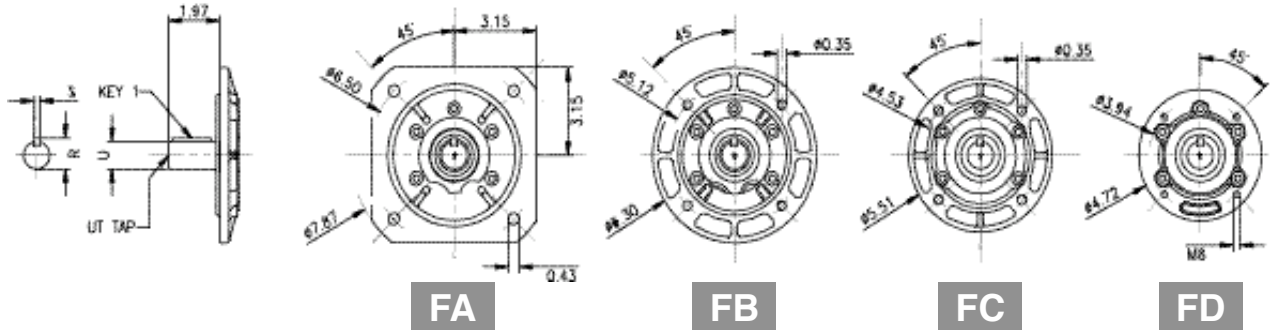
Dimensions for motor connections available on page 100.

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

Shipping Weights on page 244.

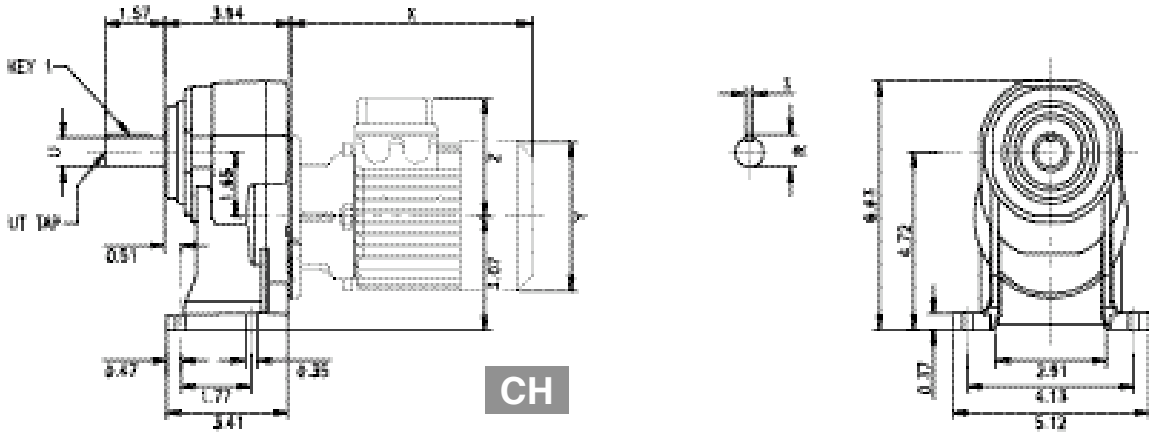


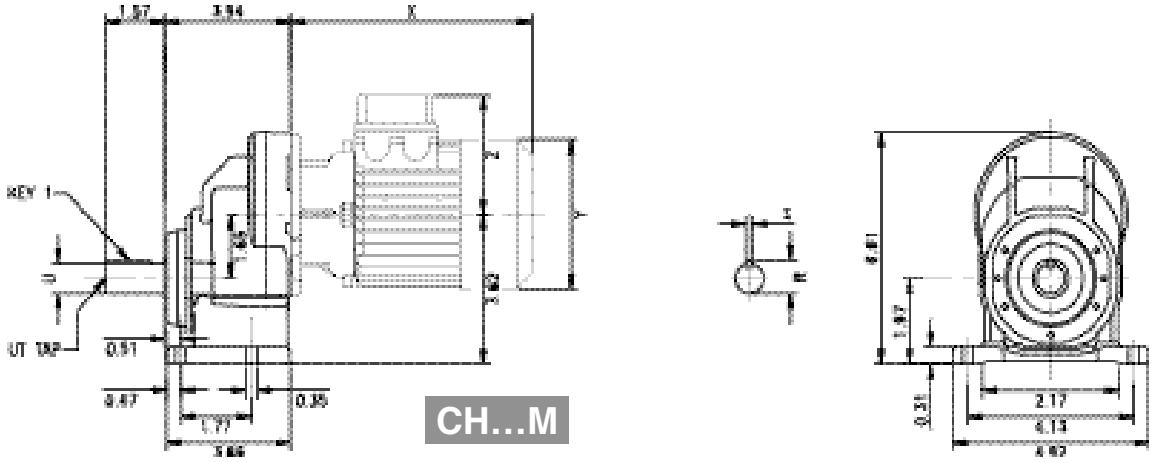




		UA	RA	SA	AA	BD
NEMA	56C	0.625 $^{+0.0010}_{-0.0000}$	0.71	0.1875	3.74	6.69
	140TC	0.875 $^{+0.0010}_{-0.0000}$	0.97	0.1875	3.74	6.69
	180TC	1.125 $^{+0.0010}_{-0.0000}$	1.24	0.2500	4.33	9.06
IEC	063	11mm $^{+0.034mm}_{+0.016mm}$	12.8mm	4mm	57mm	140mm B5
	071	14mm $^{+0.024mm}_{+0.006mm}$	16.3mm	5mm	69mm	160mm B5
	080	19mm $^{+0.028mm}_{+0.007mm}$	21.8mm	6mm	90mm	200mm B5
	090	24mm $^{+0.028mm}_{+0.007mm}$	27.3mm	8mm	90mm	200mm B5
	100	28mm $^{+0.028mm}_{+0.007mm}$	31.3mm	8mm	105mm	250mm B5
	112	28mm $^{+0.028mm}_{+0.007mm}$	31.3mm	8mm	105mm	250mm B5

041 H Dimensions





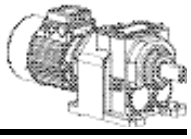
U	R	S	UT TAP	KEY 1	UB	RB	SB	UR TAP	KEY 2
0.750 $^{+0.0000}_{-0.0005}$	0.83	0.1875	1/4-20	3/16x3/16x1-1/8	0.625 $^{+0.0000}_{-0.0005}$	0.70	0.1875	1/4-20	3/16x3/16x1-1/8
19mm $^{+0.000mm}_{-0.011mm}$	21.5mm	6mm	M6	6x6x30mm	16mm $^{+0.008mm}_{-0.003mm}$	18mm	5mm	M8	8x7x35mm

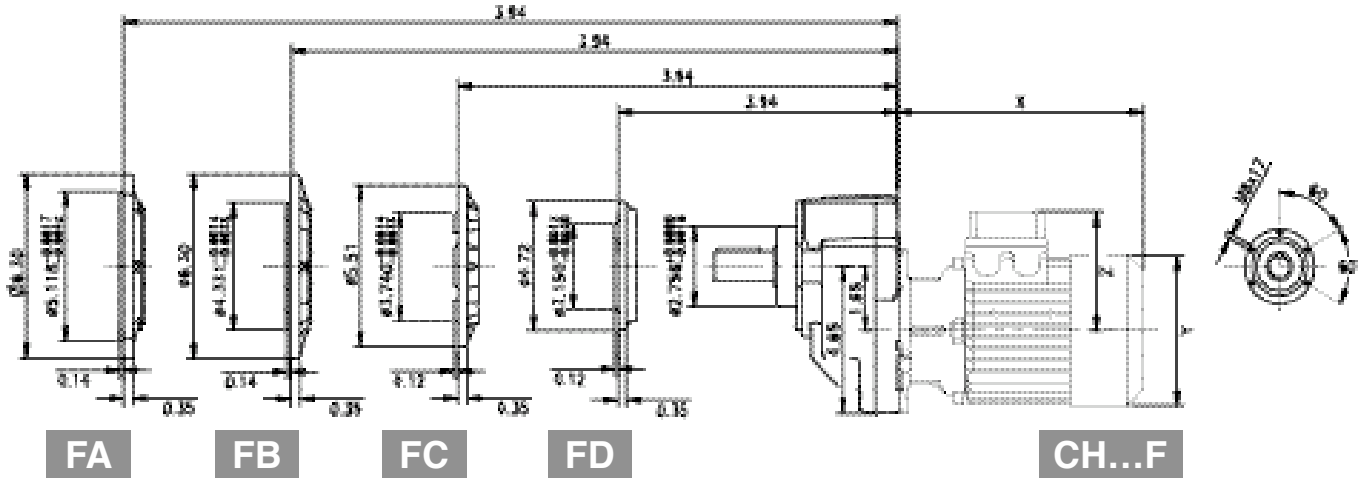
		Standard Motor			Brake Motor		
		X	Y	Z	X	Y	Z
IEC	071	9.47	5.47	4.41	12.01	5.47	4.41
	080	10.53	6.22	4.78	13.41	6.22	4.78
	090S	11.65	6.81	5.10	14.67	6.81	5.10
	090L	12.64	6.81	5.10	15.65	6.81	5.10

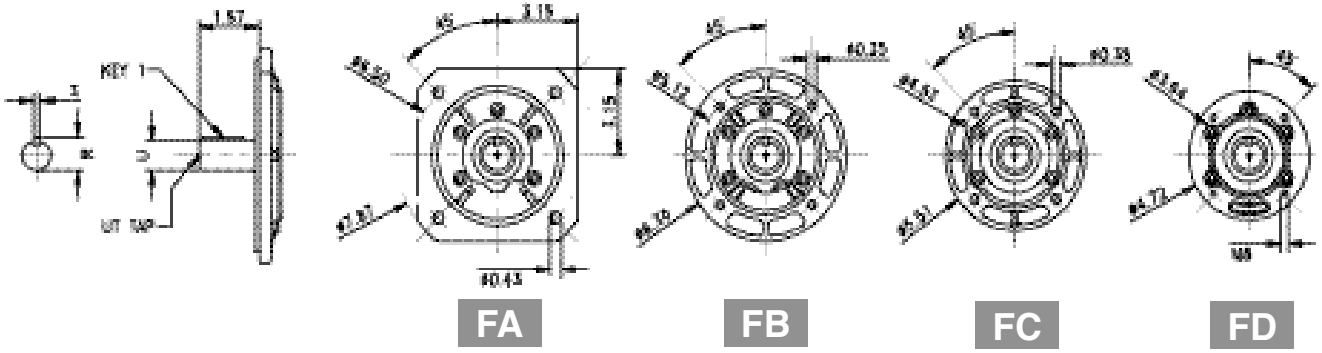
Dimensions for motor connections available on page 100.

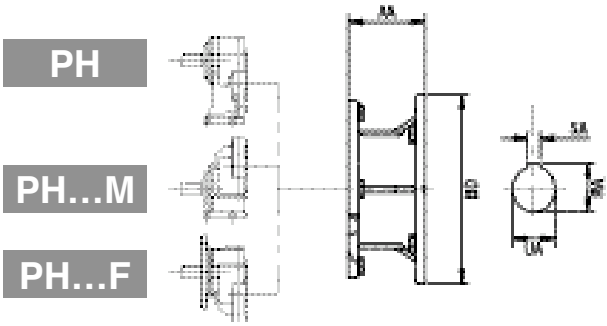
Diameter of motor or motor flange may protrude below mounting feet of reducer. Please check motor connection for conflicts.

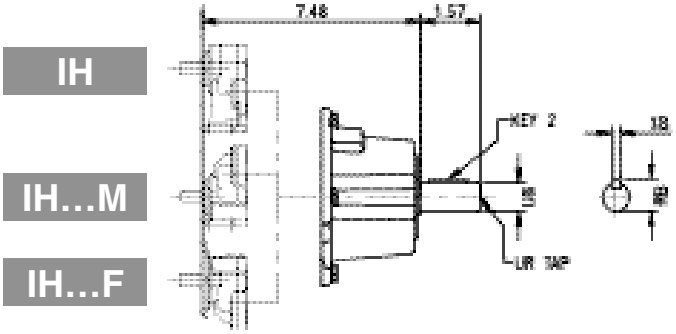
Shipping Weights on page 244.





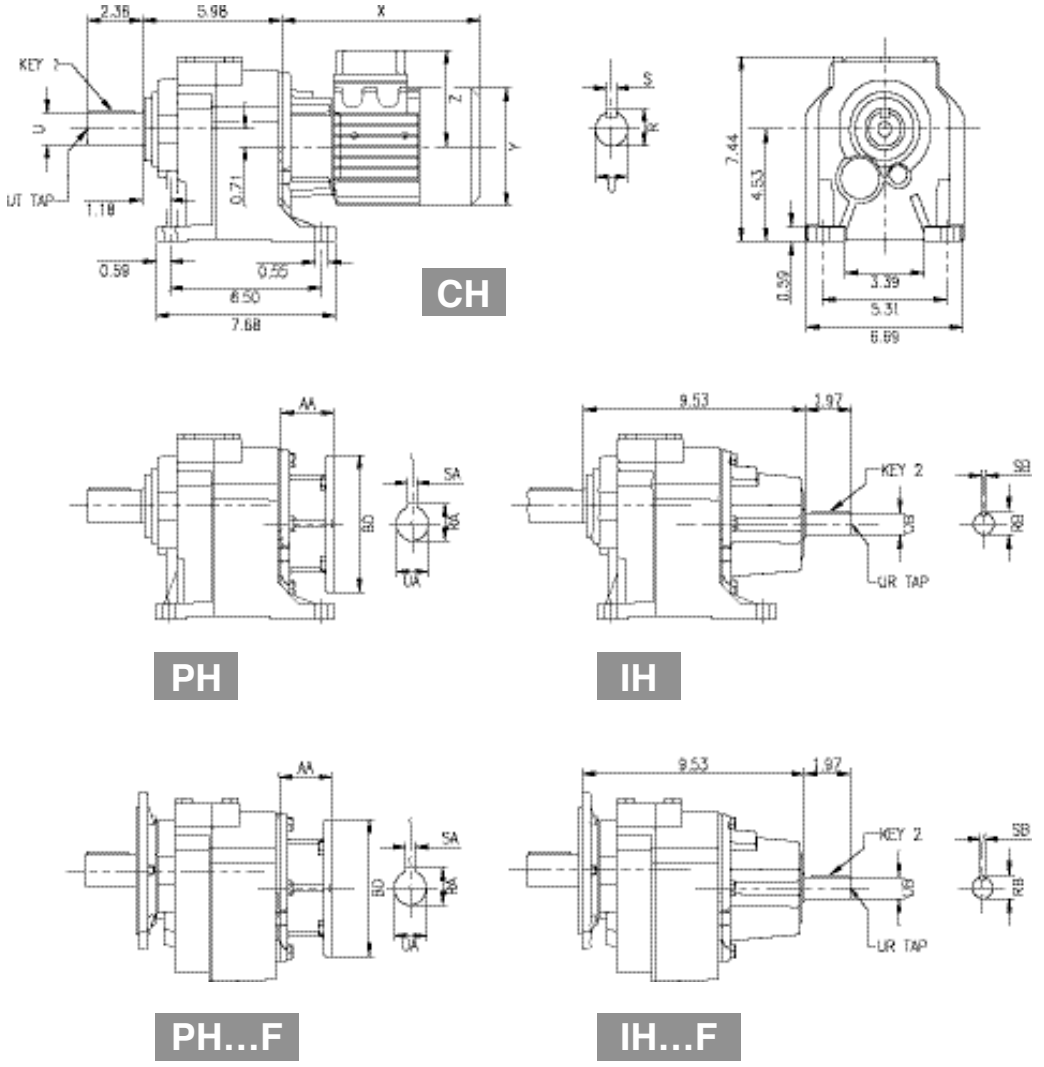






		UA	RA	SA	AA	BD
	56C	0.625 +0.0010 -0.0000	0.71	0.1875	3.74	6.69
	140TC	0.875 +0.0010 -0.0000	0.97	0.1875	3.74	6.69
	180TC	1.125 +0.0010 -0.0000	1.24	0.2500	4.33	9.06
IEC	71	14mm +0.024mm +0.006mm	16.3mm	5mm	69mm	160mm B5
	80	19mm +0.028mm +0.007mm	21.8mm	6mm	90mm	200mm B5
	90	24mm +0.028mm +0.007mm	27.3mm	8mm	90mm	200mm B5

042/3 H Dimensions



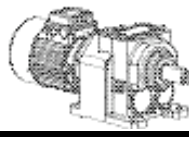
U	R	S	UT TAP	KEY 1	UB	RB	SB	UR TAP	KEY 2
1.250 $^{+0.0000}_{-0.0005}$	1.36	0.250	1/2-13	1/4x1/4x1-7/8	0.875 $^{+0.0000}_{-0.0005}$	0.96	0.1875	1/4-20	3/16x3/16x1-1/8
30mm $^{+0.009mm}_{-0.004mm}$	33mm	8mm	M10	8x7x50mm	24mm $^{+0.009mm}_{-0.004mm}$	27mm	8mm	M8	8x7x35mm

		Standard Motor			Brake Motor		
		X	Y	Z	X	Y	Z
IEC	63	8.41	4.76	4.07	10.75	4.76	4.07
	071	9.47	5.47	4.41	12.01	5.47	4.41
	080	10.53	6.22	4.78	13.41	6.22	4.78
	90S	11.65	6.81	5.10	14.67	6.81	5.10
	90L	12.64	6.81	5.10	15.65	6.81	5.10
	100	13.15	7.52	5.45	16.32	7.52	5.45
	112	13.94	8.29	6.04	17.62	8.29	6.04

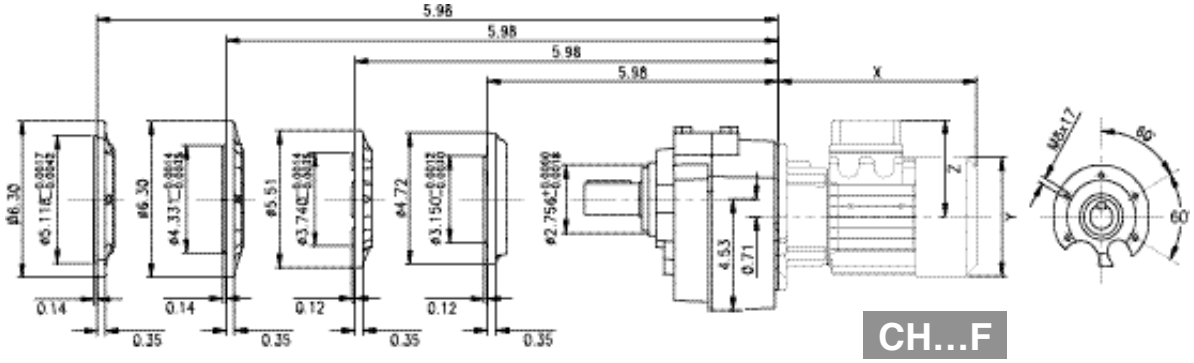
Dimensions for motor connections available on page 100.

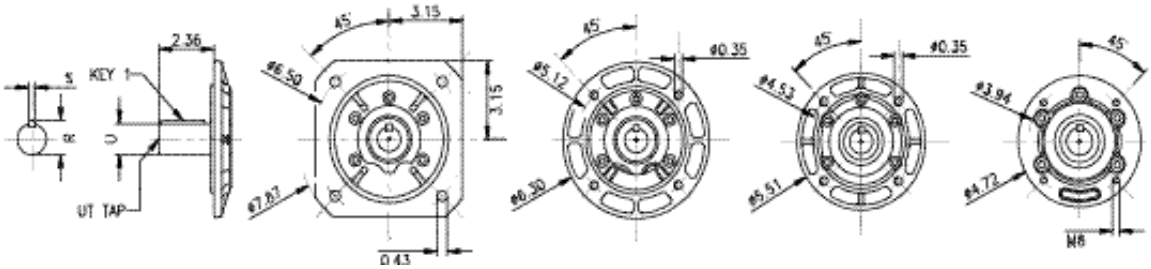
Diameter of motor or motor flange may protrude below mounting feet of reducer. Please check motor connection for conflicts.

Shipping Weights on page 244.



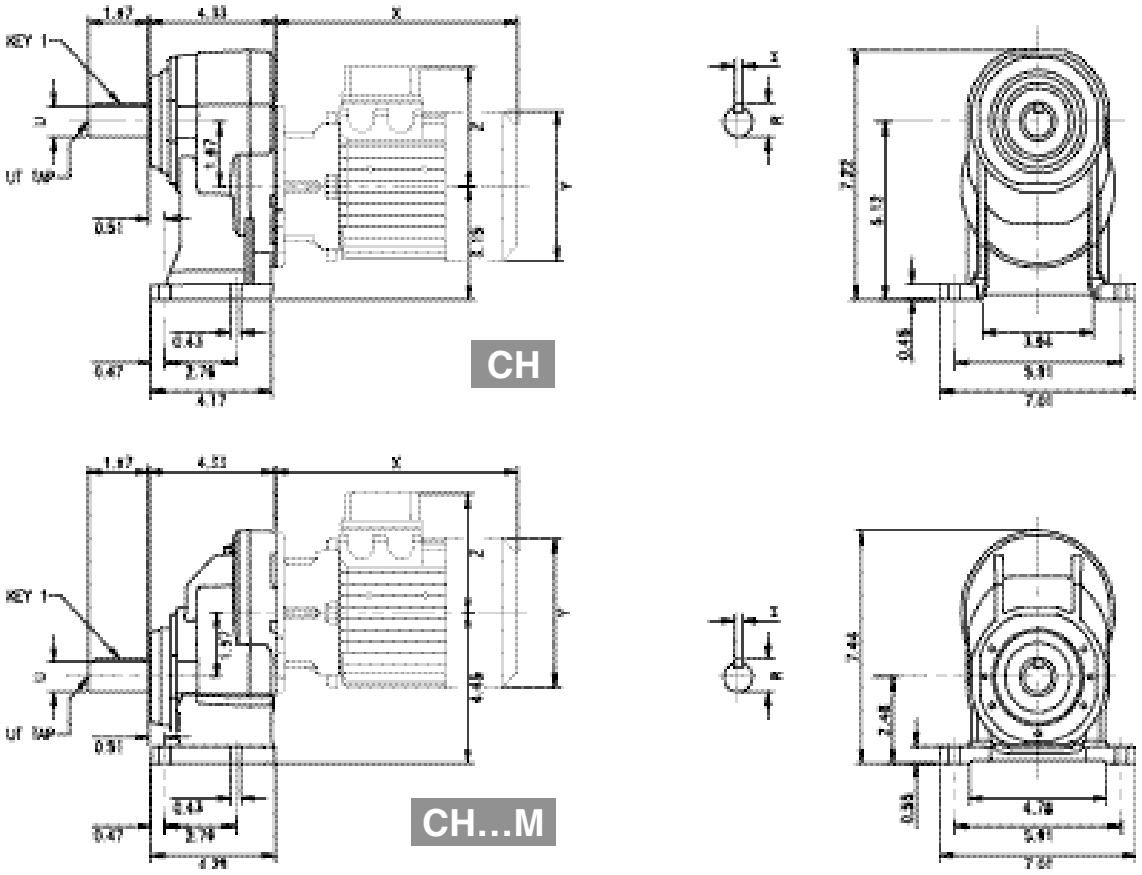
H Dimensions | 042/3





		UA	RA	SA	AA	BD
NEMA	56C	0.625 $^{+0.0010}_{-0.0000}$	0.71	0.1875	3.74	6.69
	140TC	0.875 $^{+0.0010}_{-0.0000}$	0.97	0.1875	3.74	6.69
	180TC	1.125 $^{+0.0010}_{-0.0000}$	1.24	0.2500	4.33	9.06
IEC	63	11mm $^{+0.034mm}_{+0.016mm}$	12.8mm	4mm	57mm	140mm B5
	71	14mm $^{+0.024mm}_{+0.006mm}$	16.3mm	5mm	69mm	160mm B5
	80	19mm $^{+0.028mm}_{+0.007mm}$	21.8mm	6mm	90mm	200mm B5
	90	24mm $^{+0.028mm}_{+0.007mm}$	27.3mm	8mm	90mm	200mm B5
	100	28mm $^{+0.028mm}_{+0.007mm}$	31.3mm	8mm	105mm	250mm B5
	112	28mm $^{+0.028mm}_{+0.007mm}$	31.3mm	8mm	105mm	250mm B5

051 H Dimensions



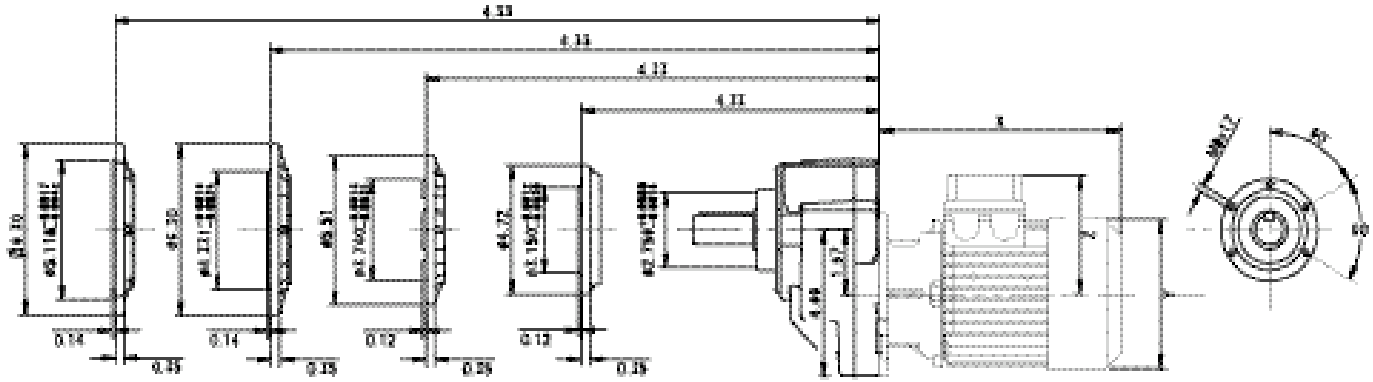
U	R	S	UT TAP	KEY 1	UB	RB	SB	UR TAP	KEY 2
1.000 $^{+0.0000}_{-0.0005}$	1.11	0.250	3/8-16	1/4x1/4x1-1/2	0.875 $^{+0.0000}_{-0.0005}$	0.96	0.1875	1/4-20	3/16x3/16x1-1/2
24mm $^{+0.000mm}_{-0.013mm}$	27mm	8mm	M8	8x7x35mm	24mm $^{+0.000mm}_{-0.013mm}$	27mm	8mm	M8	8x7x35mm

		Standard Motor			Brake Motor		
		X	Y	Z	X	Y	Z
IEC	071	9.47	5.47	4.41	12.01	5.47	4.41
	080	10.53	6.22	4.78	13.41	6.22	4.78
	090S	11.65	6.81	5.10	14.67	6.81	5.10
	090L	12.64	6.81	5.10	15.65	6.81	5.10
	100	13.15	7.52	5.45	16.32	7.52	5.45
	112	13.94	8.29	6.04	17.62	8.29	6.04

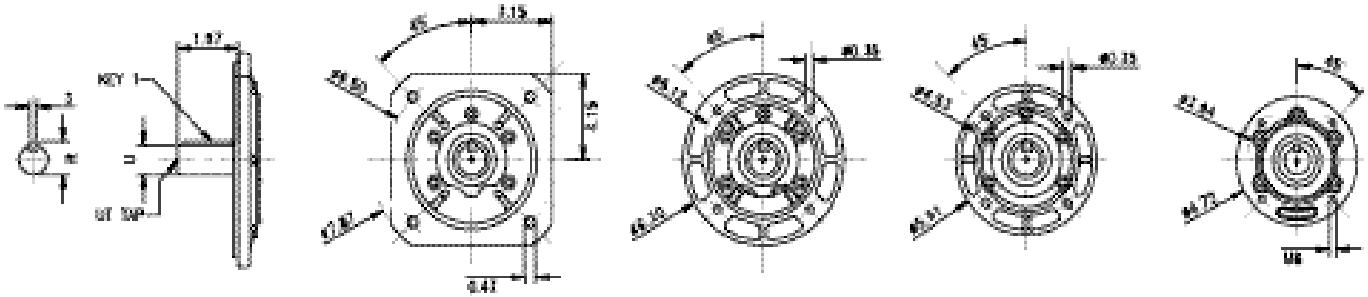
Dimensions for motor connections available on page 100.

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

Shipping Weights on page 244.

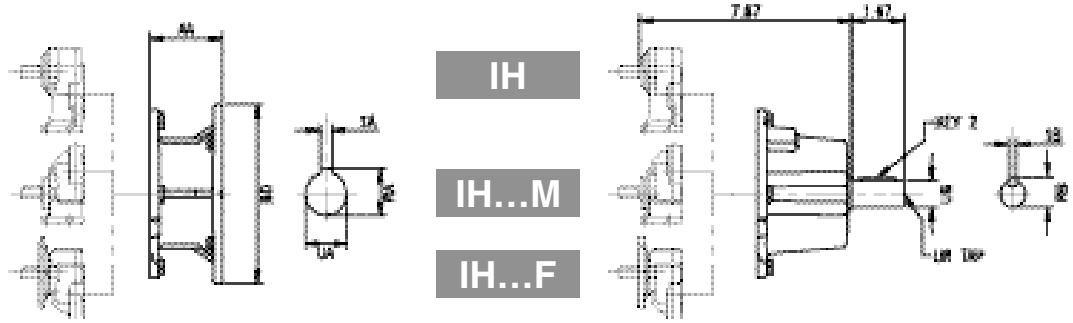


FA FB FC FD CH…F



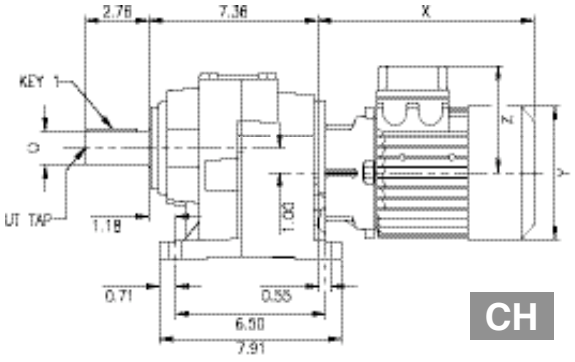
FA FB FC FD

PH PH…M PH…F IH IH…M IH…F

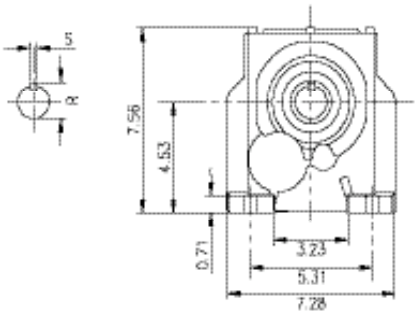


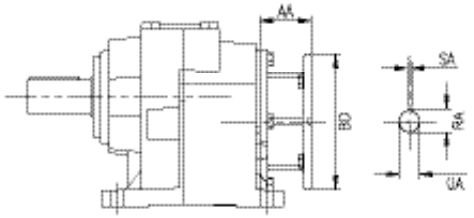
		UA	RA	SA	AA	BD
NEMA	56C	0.625 $^{+0.0010}_{-0.0000}$	0.71	0.1875	3.74	6.69
	140TC	0.875 $^{+0.0010}_{-0.0000}$	0.97	0.1875	3.74	6.69
	180TC	1.125 $^{+0.0010}_{-0.0000}$	1.24	0.2500	4.33	9.06
IEC	071	14mm $^{+0.024mm}_{+0.006mm}$	16.3mm	5mm	69mm	160mm B5
	080	19mm $^{+0.028mm}_{+0.007mm}$	21.8mm	6mm	90mm	200mm B5
	090	24mm $^{+0.028mm}_{+0.007mm}$	27.3mm	8mm	90mm	200mm B5
	100	28mm $^{+0.028mm}_{+0.007mm}$	31.3mm	8mm	105mm	250mm B5
	112	28mm $^{+0.028mm}_{+0.007mm}$	31.3mm	8mm	105mm	250mm B5

052/3 H Dimensions

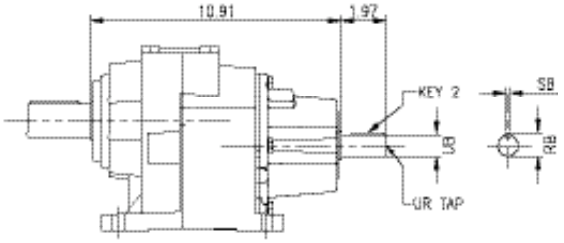


CH

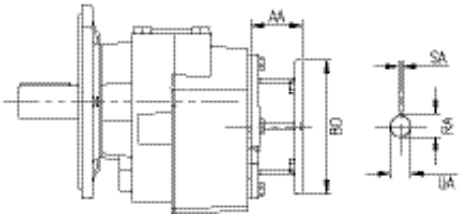




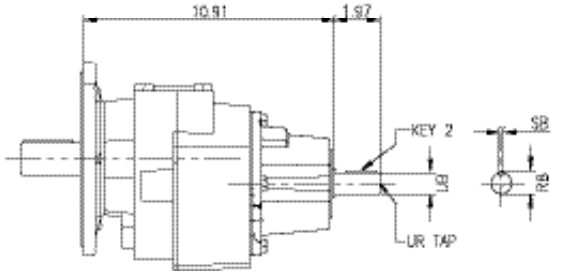
PH



IH



PH...F



IH...F

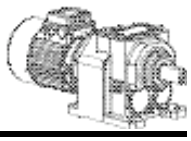
U	R	S	UT TAP	KEY 1	UB	RB	SB	UR TAP	KEY 2
1.375 +0.0000 -0.0005	1.51	0.3125	1/2-13	5/16x5/16x2-1/8	0.875 +0.0000 -0.0005	0.96	0.1875	1/4-20	3/16x3/16x1-1/2
35mm +0.018mm +0.002mm	38mm	10mm	M12	10x8x50mm	24mm +0.009mm -0.004mm	27mm	8mm	M8	8x7x35mm

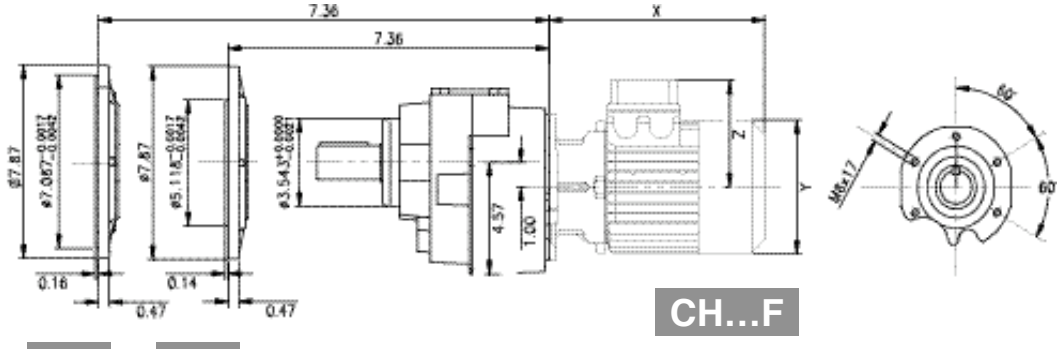
		Standard Motor			Brake Motor		
		X	Y	Z	X	Y	Z
IEC	063	8.41	4.76	4.07	10.75	4.76	4.07
	071	9.47	5.47	4.41	12.01	5.47	4.41
	080	10.53	6.22	4.78	13.41	6.22	4.78
	090S	11.65	6.81	5.10	14.67	6.81	5.10
	090L	12.64	6.81	5.10	15.65	6.81	5.10
	100	13.15	7.52	5.45	16.32	7.52	5.45
	112	13.94	8.29	6.04	17.62	8.29	6.04

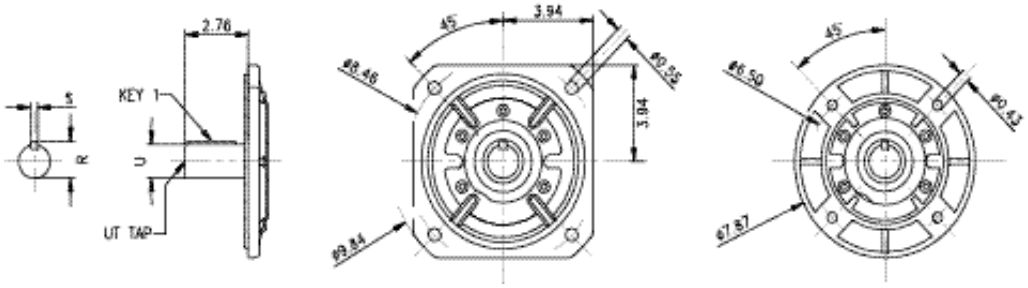
Dimensions for motor connections available on page 100.

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

Shipping Weights on page 244.

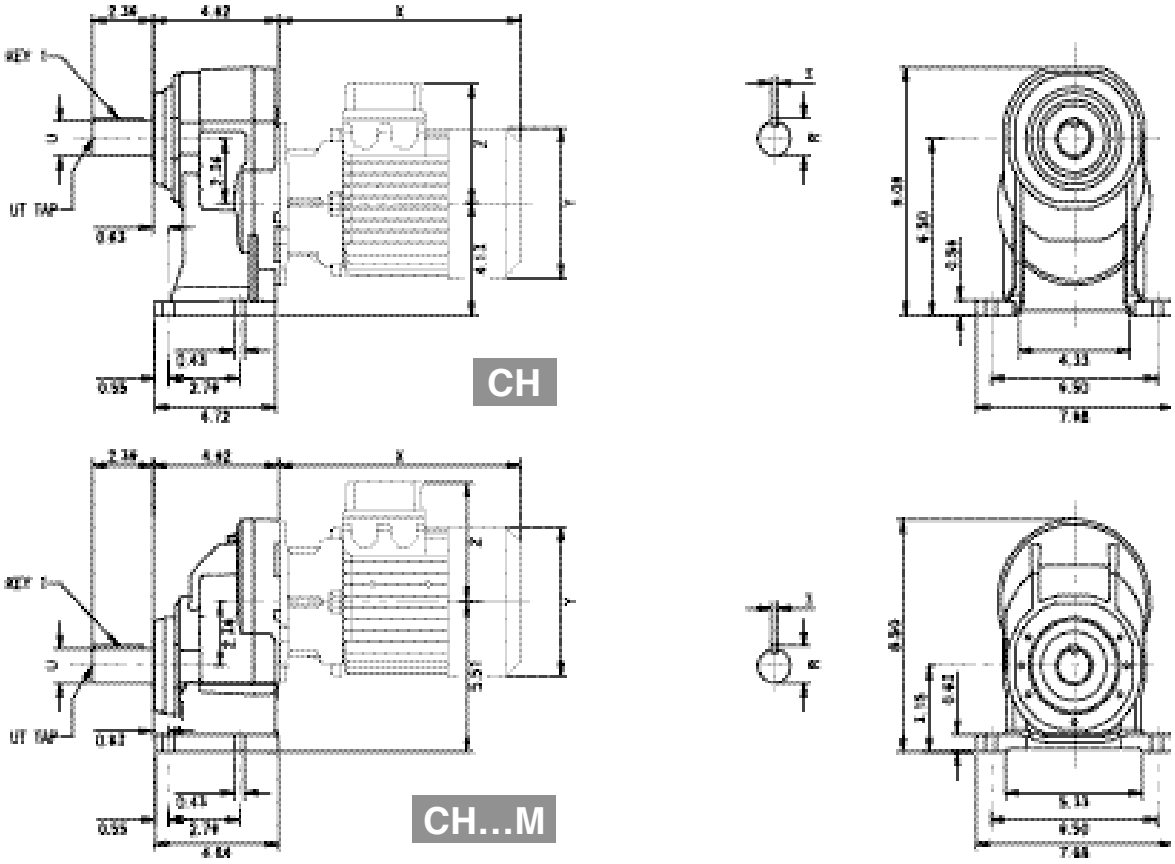






		UA	RA	SA	AA	BD
NEMA	56C	0.625 +0.0010 -0.0000	0.71	0.1875	3.74	6.69
	140TC	0.875 +0.0010 -0.0000	0.97	0.1875	3.74	6.69
	180TC	1.125 +0.0010 -0.0000	1.24	0.2500	4.33	9.06
IEC	063	11mm +0.034mm +0.016mm	12.8mm	4mm	57mm	140mm B5
	071	14mm +0.024mm +0.006mm	16.3mm	5mm	69mm	160mm B5
	080	19mm +0.028mm +0.007mm	21.8mm	6mm	90mm	200mm B5
	090	24mm +0.028mm +0.007mm	27.3mm	8mm	90mm	200mm B5
	100	28mm +0.028mm +0.007mm	31.3mm	8mm	105mm	250mm B5
	112	28mm +0.028mm +0.007mm	31.3mm	8mm	105mm	250mm B5

061 H Dimensions



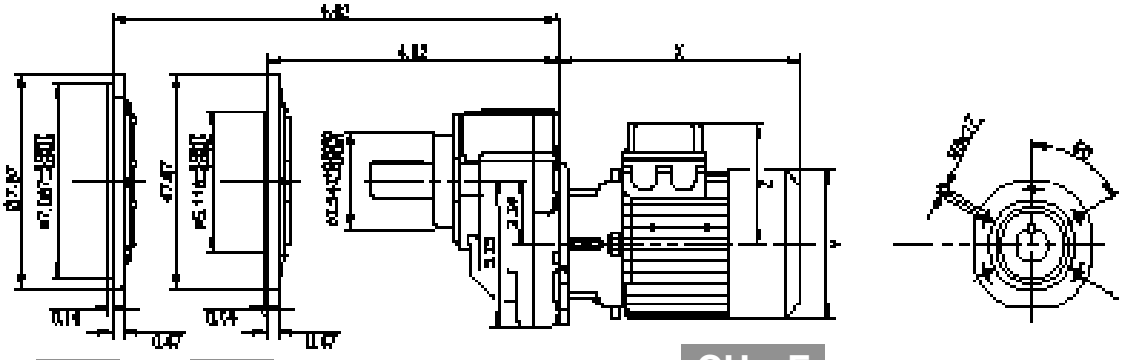
U	R	S	UT TAP	KEY 1	UB	RB	SB	UR TAP	KEY 2
1.250 $^{+0.0000}_{-0.0005}$	1.36	0.25	1/2-13	1/4x1/4x1-7/8	0.875 $^{+0.0000}_{-0.0005}$	0.96	0.1875	1/4-20	3/16x3/16x1-1/2
28mm $^{+0.015}_{+0.002}$	31mm	8mm	M10	8x7x45mm	24mm $^{+0.000mm}_{-0.013mm}$	27mm	8mm	M8	8x7x35mm

		Standard Motor			Brake Motor		
		X	Y	Z	X	Y	Z
IEC	080	10.53	6.22	4.78	13.41	6.22	4.78
	090S	11.65	6.81	5.10	14.67	6.81	5.10
	090L	12.64	6.81	5.10	15.65	6.81	5.10
	100	13.15	7.52	5.45	16.32	7.52	5.45
	112	13.94	8.29	6.04	17.62	8.29	6.04

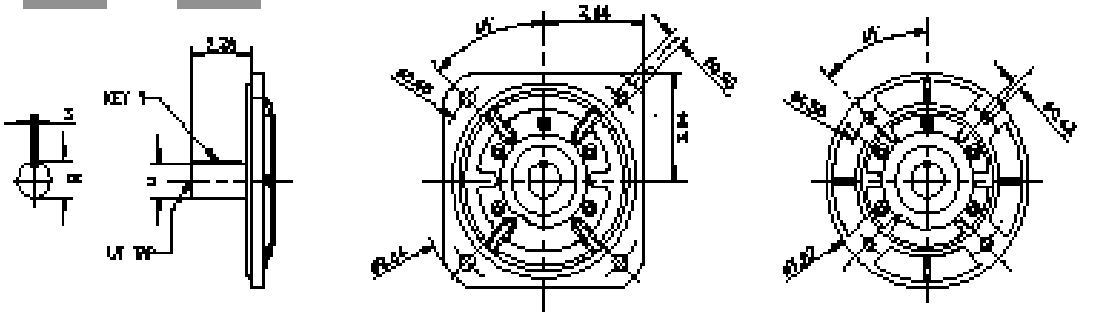
Dimensions for motor connections available on page 100.

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

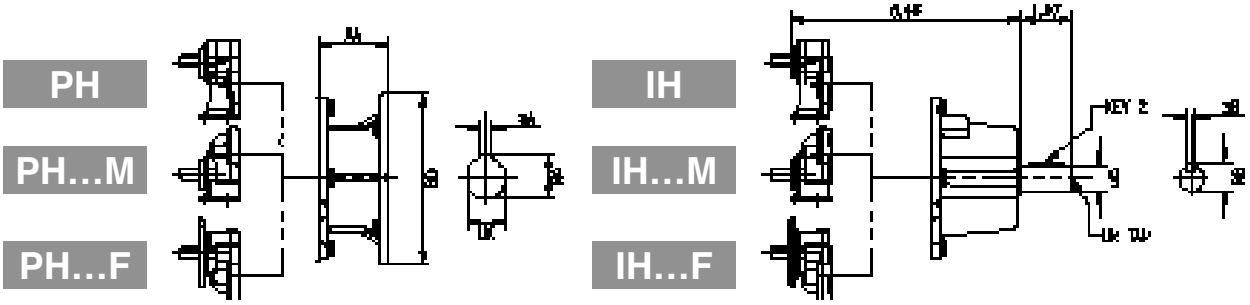
Shipping Weights on page 244.



FA FB CH...F



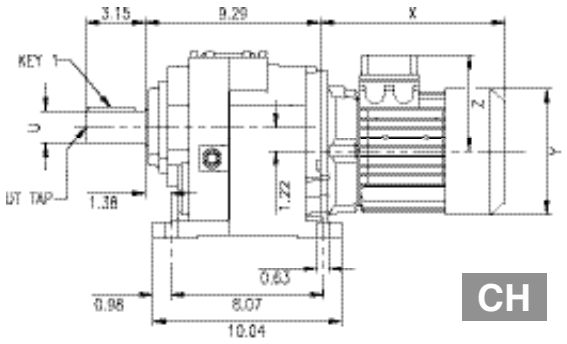
FA FB



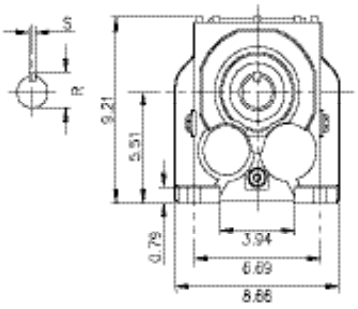
PH PH...M PH...F IH IH...M IH...F

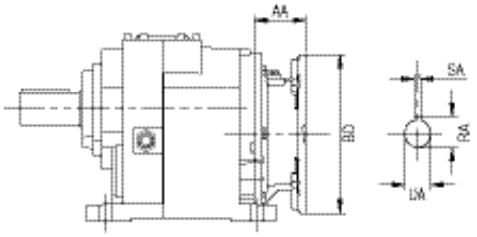
		UA	RA	SA	AA	BD
NEMA	56C	0.625 $^{+0.0010}_{-0.0000}$	0.71	0.1875	3.74	6.69
	140TC	0.875 $^{+0.0010}_{-0.0000}$	0.97	0.1875	3.74	6.69
	180TC	1.125 $^{+0.0010}_{-0.0000}$	1.24	0.2500	4.33	9.06
IEC	080	19mm $^{+0.028}_{+0.007}$	21.8mm	6mm	90mm	200mm B5
	090	24mm $^{+0.028}_{+0.007}$	27.3mm	8mm	90mm	200mm B5
	100	28mm $^{+0.028}_{+0.007}$	31.3mm	8mm	105mm	250mm B5
	112	28mm $^{+0.028}_{+0.007}$	31.3mm	8mm	105mm	250mm B5

062/3 H Dimensions

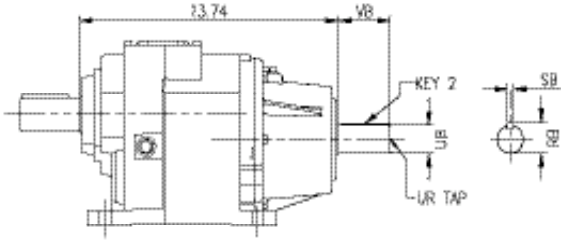


CH

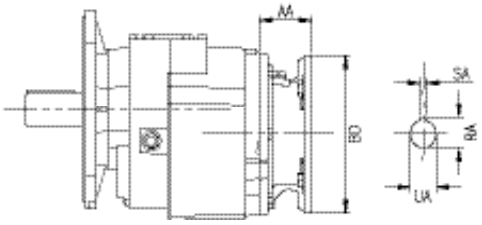




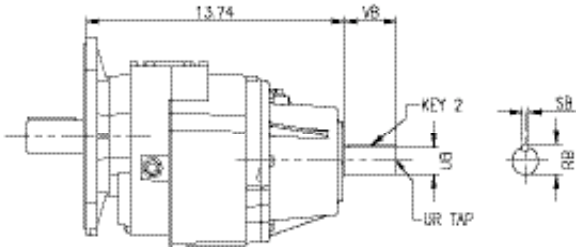
PH



IH



PH...F



IH...F

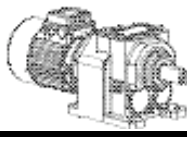
U	R	S	UT TAP	KEY 1	UB	VB	RB	SB	UR TAP	KEY 2
1.625 $^{+0.0000}_{-0.0010}$	1.79	0.375	5/8-11	3/8x3/8x2-1/2	1.375 $^{+0.0000}_{-0.0005}$	2.76	1.51	0.3125	1/2-13	5/16x5/16x2-1/8
40mm $^{+0.018mm}_{+0.002mm}$	43mm	12mm	M16	12x8x60mm	28mm $^{+0.009mm}_{-0.004mm}$	60mm	31mm	8mm	M10	8x7x45mm

		Standard Motor			Brake Motor		
		X	Y	Z	X	Y	Z
IEC	071	8.68	5.47	4.41	11.22	5.47	4.41
	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

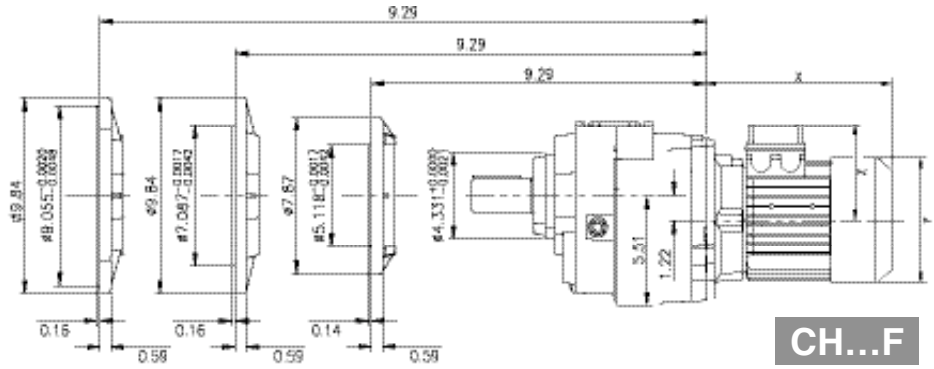
Dimensions for motor connections available on page 100.

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

Shipping Weights on page 244.

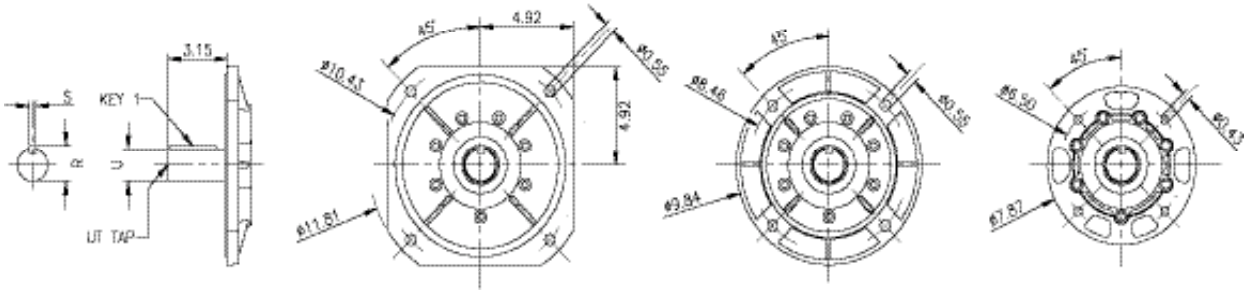


H Dimensions | 062/3



CH...F

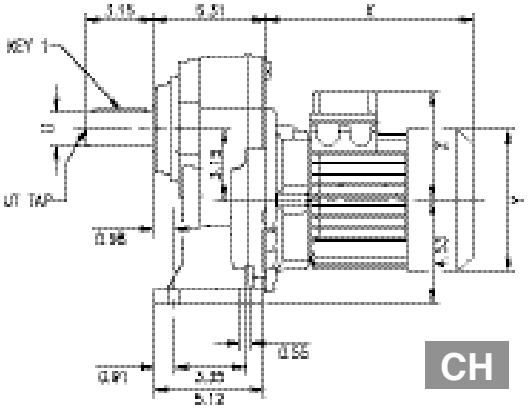
FA FB FC

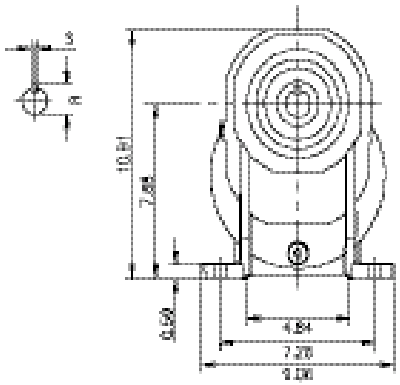


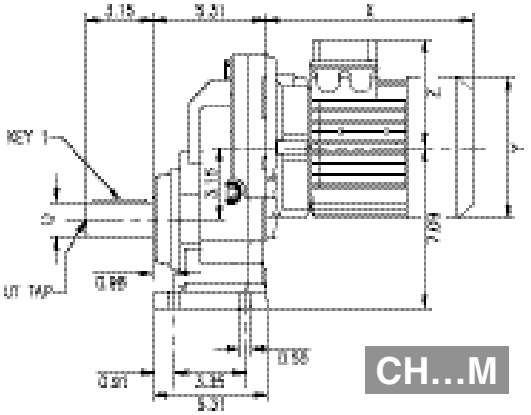
FA FB FC

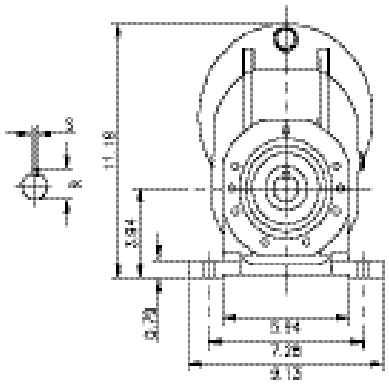
		UA	RA	SA	AA	BD
NEMA	56C	0.625 $^{+0.0010}_{-0.0000}$	0.71	0.1875	2.95	6.69
	140TC	0.875 $^{+0.0010}_{-0.0000}$	0.97	0.1875	2.95	6.69
	180TC	1.125 $^{+0.0010}_{-0.0000}$	1.24	0.2500	3.54	9.06
	210TC	1.375 $^{+0.0010}_{-0.0000}$	1.52	0.3125	6.02	9.06
IEC	71	14mm $^{+0.024mm}_{+0.006mm}$	16.3mm	5mm	49mm	160mm B5
	80	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

081 H Dimensions









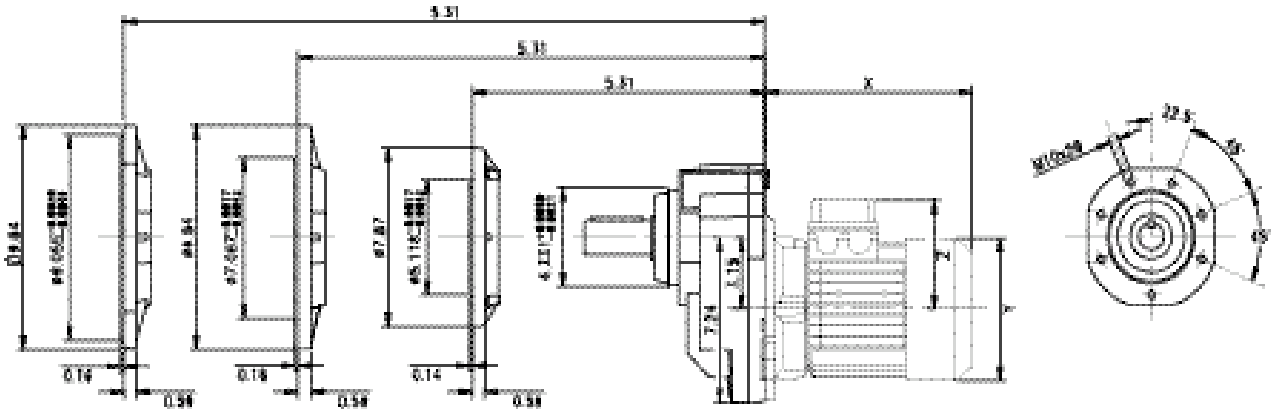
U	R	S	UT TAP	KEY 1	UB	VB	RB	SB	UR TAP	KEY 2
1.500 $^{+0.0000}_{-0.0005}$	1.66	0.3750	5/8-11	3/8x3/8x2-1/2	1.375 $^{+0.0000}_{-0.0005}$	2.76	1.51	0.3125	1/2-13	5/16x5/16x2-1/8
38mm $^{+0.018mm}_{+0.002mm}$	41mm	10mm	M12	10x8x60mm	28mm $^{+0.009mm}_{-0.004mm}$	60mm	31mm	8mm	M10	8x7x45mm

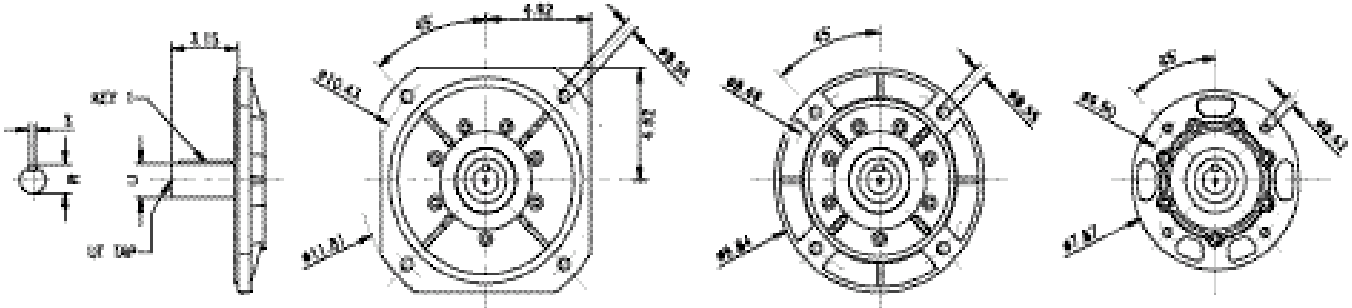
		Standard Motor			Brake Motor		
		X	Y	Z	X	Y	Z
IEC	080	9.74	6.22	4.78	12.62	6.22	4.78
	090S	10.87	6.81	5.10	13.88	6.81	5.10
	090L	11.85	6.81	5.10	14.86	6.81	5.10
	100	13.23	7.52	5.45	16.40	7.52	5.45
	112	14.13	8.29	6.04	17.81	8.29	6.04
	132S	15.96	9.78	7.64	19.47	9.78	7.64
	132M/L	17.83	9.78	7.64	21.52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

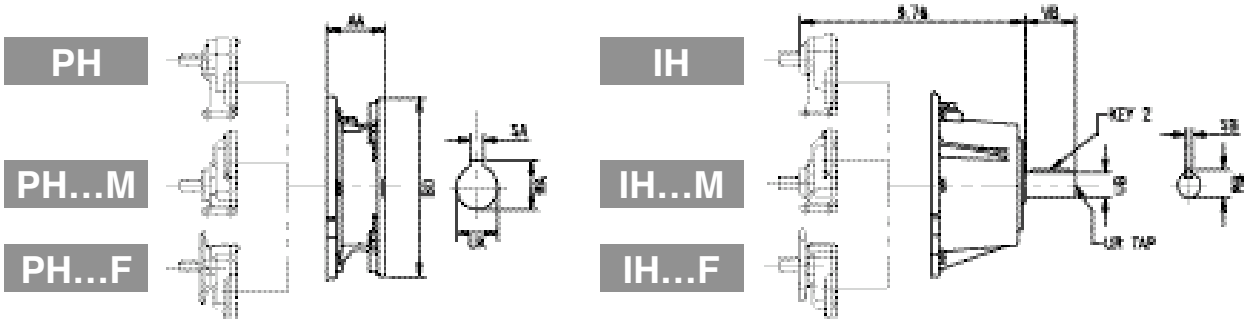
Dimensions for motor connections available on page 100.

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

Shipping Weights on page 244.

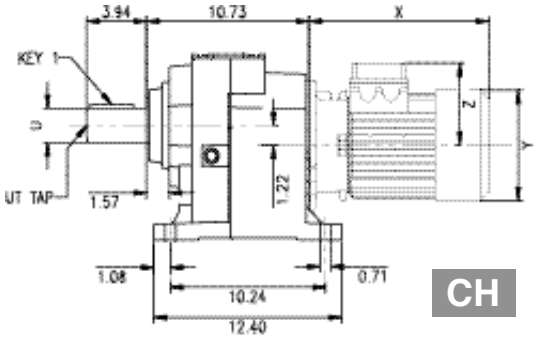




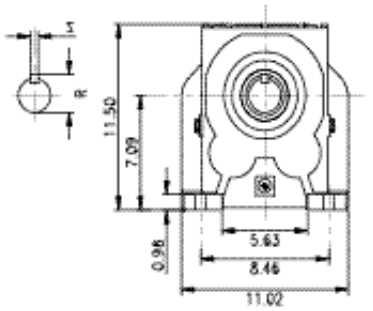


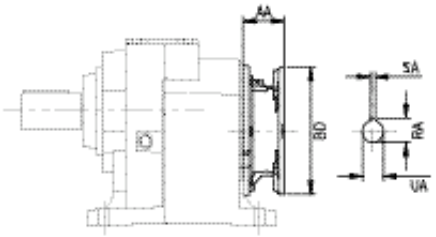
		UA	RA	SA	AA	BD
NEMA	56C	0.625 $^{+0.0010}_{-0.0000}$	0.71	0.1875	2.95	6.69
	140TC	0.875 $^{+0.0010}_{-0.0000}$	0.97	0.1875	2.95	6.69
	180TC	1.125 $^{+0.0010}_{-0.0000}$	1.24	0.2500	3.54	9.06
	210TC	1.375 $^{+0.0010}_{-0.0000}$	1.52	0.3125	6.02	9.06
IEC	80	19mm $^{+0.028mm}_{+0.007mm}$	21.8mm	6mm	70mm	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

082/3 H Dimensions

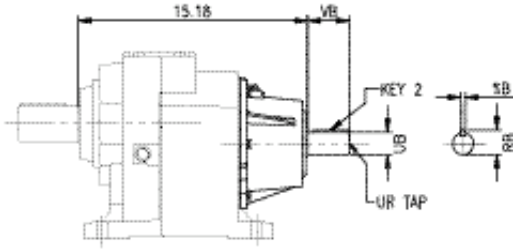


CH

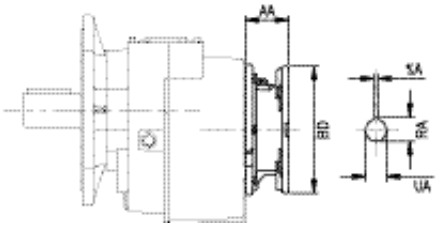




PH



IH



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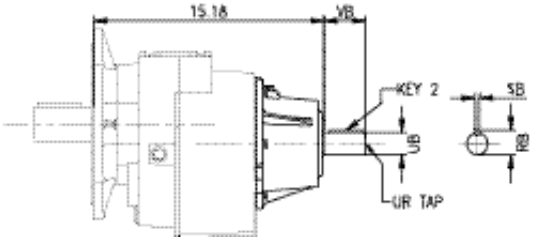


IH...F

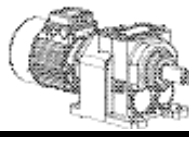
U	R	S	UT TAP	KEY 1	UB	VB	RB	SB	UR TAP	KEY 2
2.125 $^{+0.0000}_{-0.0010}$	2.35	0.5000	3/4-10	1/2x1/2x2-7/8	1.375 $^{+0.0000}_{-0.0005}$	2.76	1.51	0.3125	1/2-13	5/16x5/16x2-1/8
50mm $^{+0.018mm}_{+0.002mm}$	53.5mm	14mm	M16	14x9x80mm	28mm $^{+0.009mm}_{-0.004mm}$	60mm	31mm	8mm	M10	8x7x45mm

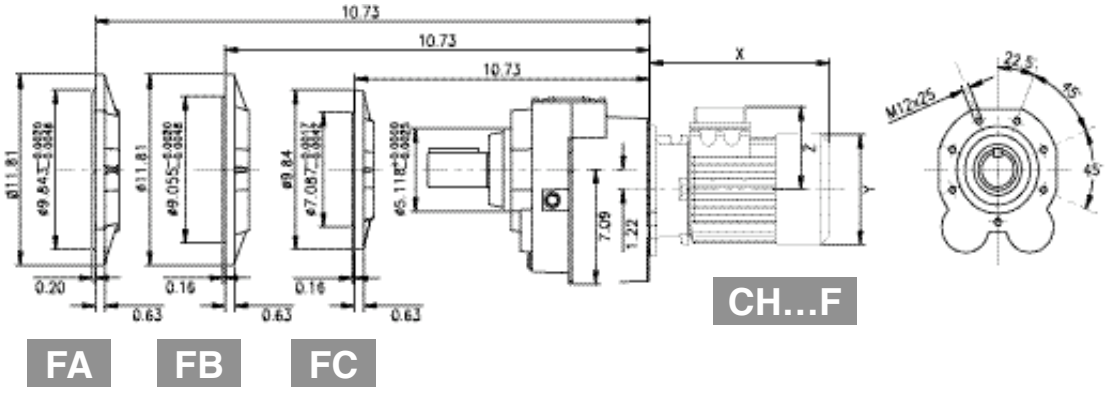
	Standard Motor			Brake Motor		
	X	Y	Z	X	Y	Z
IEC 080	9.74	6.22	4.78	12.62	6.22	4.78
090S	10.87	6.81	5.10	13.88	6.81	5.10
090L	11.85	6.81	5.10	14.86	6.81	5.10
100	13.23	7.52	5.45	16.40	7.52	5.45
112	14.13	8.29	6.04	17.81	8.29	6.04
132S	15.96	9.78	7.64	19.47	9.78	7.64
132M/L	17.83	9.78	7.64	21.52	9.78	7.64

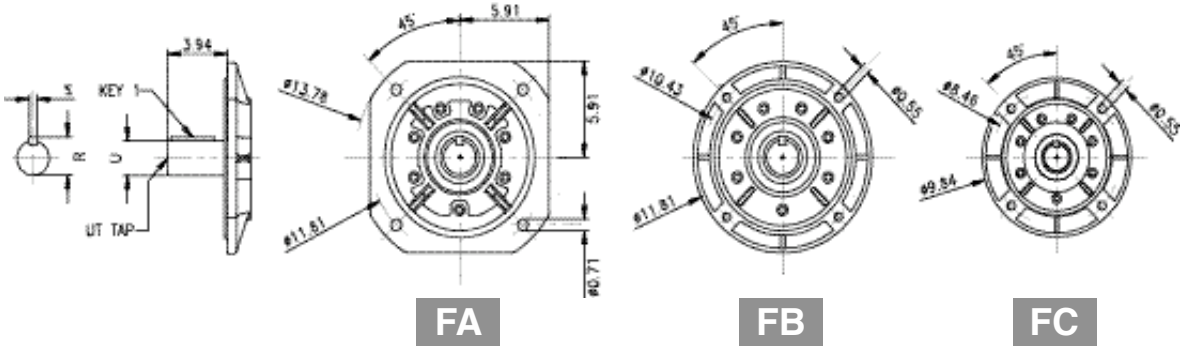
Dimensions for motor connections available on page 100.

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

Shipping Weights on page 244.

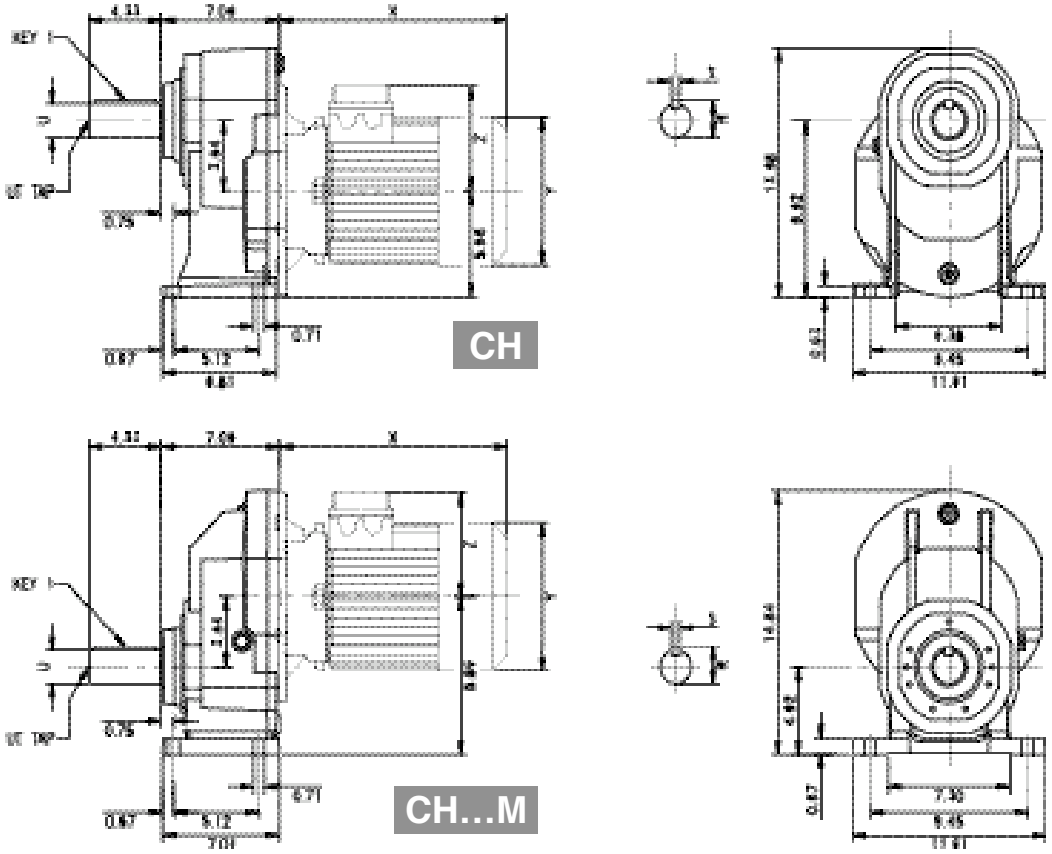






		UA	RA	SA	AA	BD
NEMA	56C	0.625 $^{+0.0010}_{-0.0000}$	0.71	0.1875	2.95	6.69
	140TC	0.875 $^{+0.0010}_{-0.0000}$	0.97	0.1875	2.95	6.69
	180TC	1.125 $^{+0.0010}_{-0.0000}$	1.24	0.2500	3.54	9.06
	210TC	1.375 $^{+0.0010}_{-0.0000}$	1.52	0.3125	6.02	9.06
	250TC	1.625 $^{+0.0010}_{-0.0000}$	1.80	0.3750	6.02	9.06
IEC	80	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

101 H Dimensions



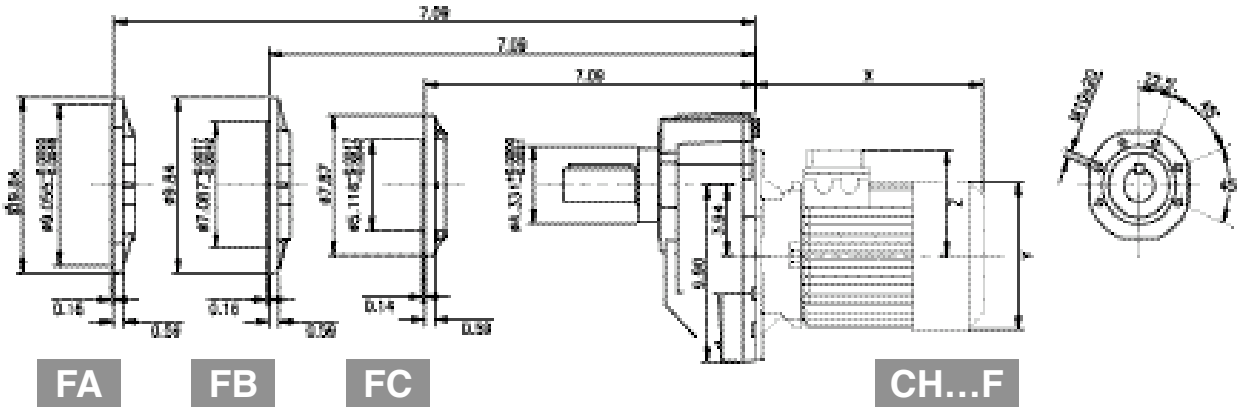
U	R	S	UT TAP	KEY 1	UB	RB	SB	UR TAP	KEY 2
1.875 $^{+0.0000}_{-0.0010}$	2.09	0.500	5/8-11	1/2x1/2x3-3/8	1.625 $^{+0.0000}_{-0.0010}$	1.79	0.3750	5/8-11	3/8x3/8x2-1/2
48mm $^{+0.018mm}_{+0.002mm}$	51.5mm	14mm	M16	14x9x90mm	38mm $^{+0.018mm}_{+0.002mm}$	41mm	10mm	M12	10x8x60mm

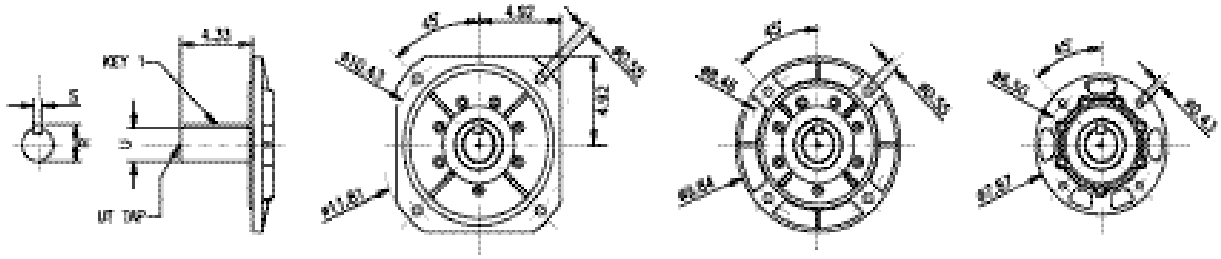
		Standard Motor			Brake Motor		
		X	Y	Z	X	Y	Z
IEC	100	12.85	7.52	5.45	16.02	7.52	5.45
	112	13.76	8.29	6.04	17.44	8.29	6.04
	132S	15.59	9.78	7.64	19.09	9.78	7.64
	132M/L	17.46	9.78	7.64	21.14	9.78	7.64

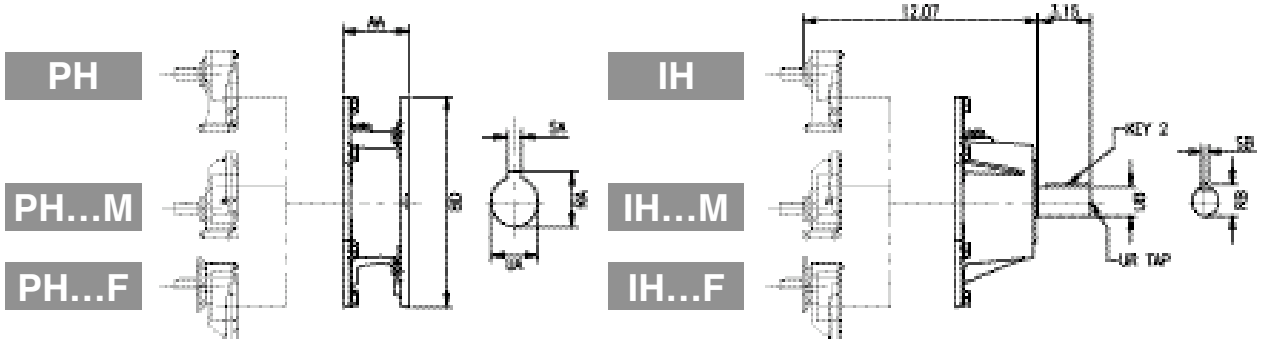
Dimensions for motor connections available on page 100.

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

Shipping Weights on page 244.

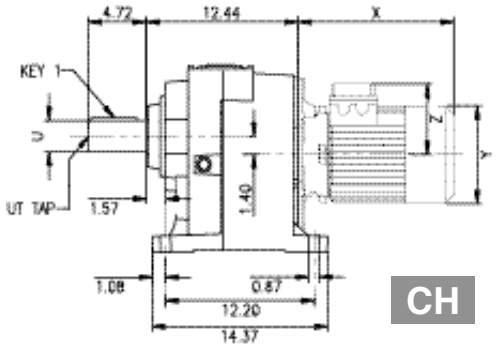






		UA	RA	SA	AA	BD
NEMA	180TC	1.125 $^{+0.0010}_{-0.0000}$	1.24	0.2500	3.17	9.06
	210TC	1.375 $^{+0.0010}_{-0.0000}$	1.52	0.3125	5.65	9.06
	250TC	1.625 $^{+0.0010}_{-0.0000}$	1.80	0.3750	5.65	9.06
IEC	100	28mm $^{+0.028mm}_{+0.007mm}$	31.3mm	8mm	76mm	250mm B5
	112	28mm $^{+0.028mm}_{+0.007mm}$	31.3mm	8mm	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

102/3 H Dimensions



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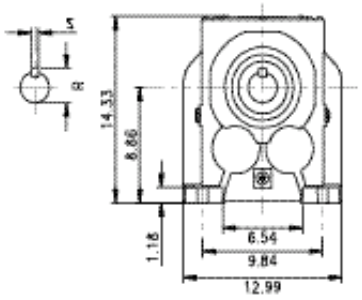

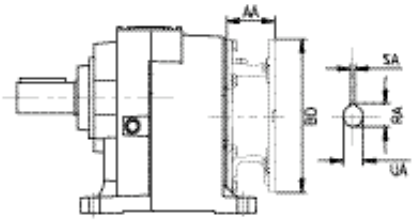

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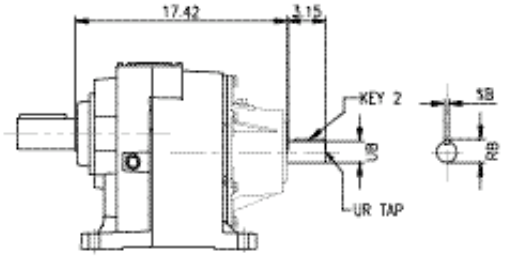

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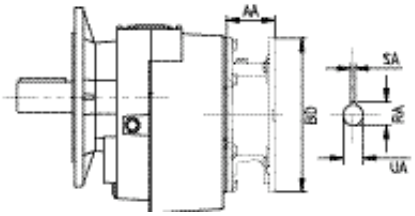

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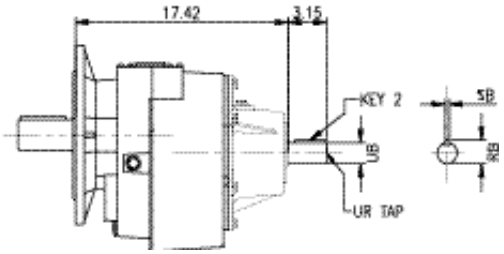

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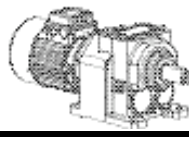
U	R	S	UT TAP	KEY 1	UB	RB	SB	UR TAP	KEY 2
2.375 $^{+0.0000}_{-0.0010}$	2.65	0.625	3/4-10	5/8x5/8x3-3/4	1.625 $^{+0.0000}_{-0.0010}$	1.79	0.3750	5/8-11	3/8x3/8x2-1/2
60mm $^{+0.030mm}_{+0.011mm}$	64mm	18mm	M20	18x11x100mm	38mm $^{+0.018mm}_{+0.002mm}$	41mm	10mm	M12	10x8x60mm

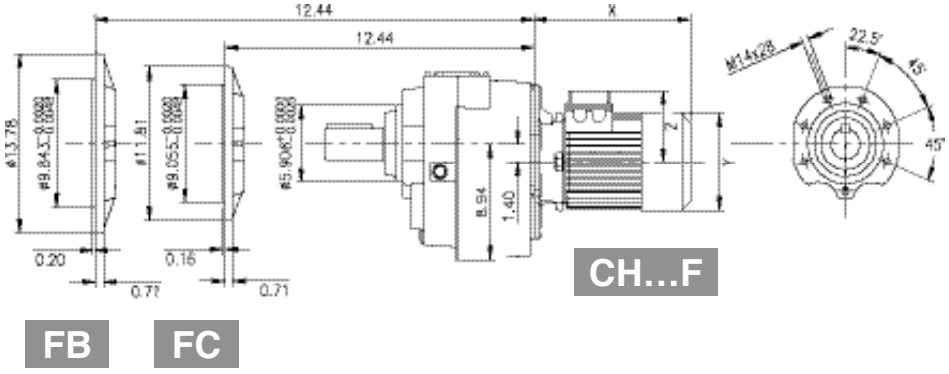
	Standard Motor			Brake Motor		
	X	Y	Z	X	Y	Z
IEC 090S	10.49	6.81	5.10	13.50	6.81	5.10
090L	11.48	6.81	5.10	14.49	6.81	5.10
100	12.85	7.52	5.45	16.02	7.52	5.45
112	13.76	8.29	6.04	17.44	8.29	6.04
132S	15.59	9.78	7.64	19.09	9.78	7.64
132M/L	17.46	9.78	7.64	21.14	9.78	7.64

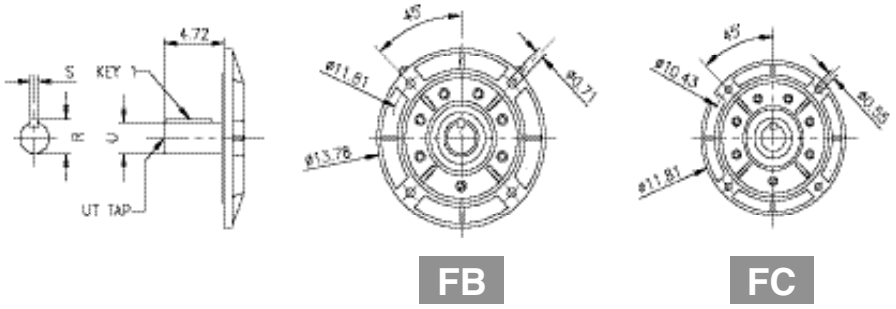
Dimensions for motor connections available on page 100.

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

Shipping Weights on page 244.

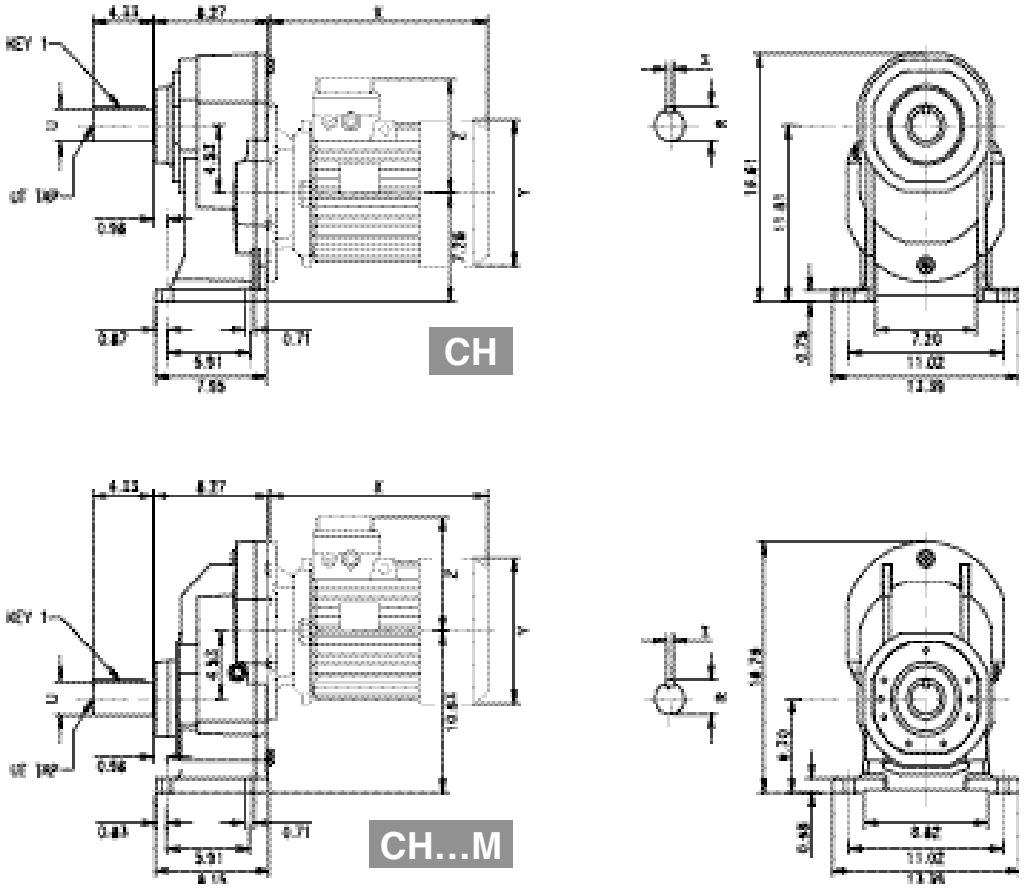






		UA	RA	SA	AA	BD
NEMA	140TC	0.875 $^{+0.0010}_{-0.0000}$	0.97	0.1875	2.58	6.69
	180TC	1.125 $^{+0.0010}_{-0.0000}$	1.24	0.2500	3.17	9.06
	210TC	1.375 $^{+0.0010}_{-0.0000}$	1.52	0.3125	5.65	9.06
	250TC	1.625 $^{+0.0010}_{-0.0000}$	1.80	0.3750	5.65	9.06
	280TC	1.875 $^{+0.0010}_{-0.0000}$	2.10	0.5000	6.89	11.02
IEC	90	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

121 H Dimensions



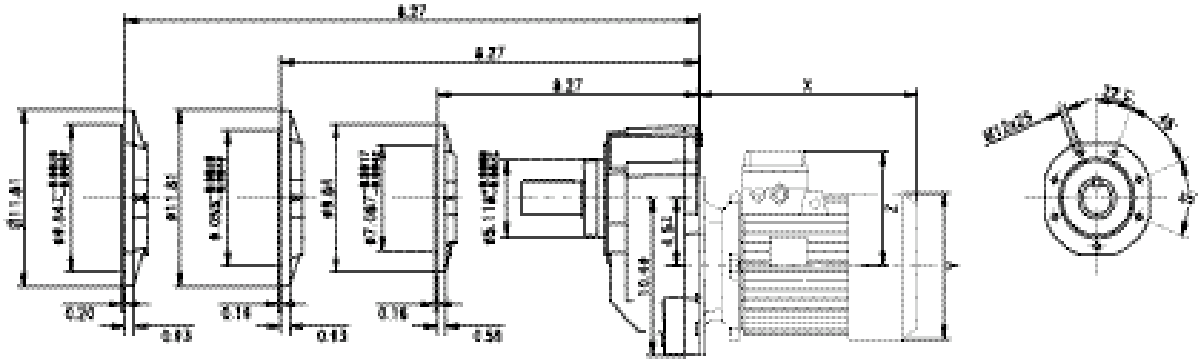
U	R	S	UT TAP	KEY 1	UB	RB	SB	UR TAP	KEY 2
2.125 $^{+0.0000}_{-0.0010}$	2.35	0.500	5/8-11	1/2x1/2x3-3/8	1.625 $^{+0.0000}_{-0.0010}$	1.79	0.3750	5/8-11	3/8x3/8x2-1/2
55mm $^{+0.021mm}_{+0.002mm}$	59mm	16mm	M20	16x10x90mm	38mm $^{+0.018mm}_{+0.002mm}$	41mm	10mm	M12	10x8x60mm

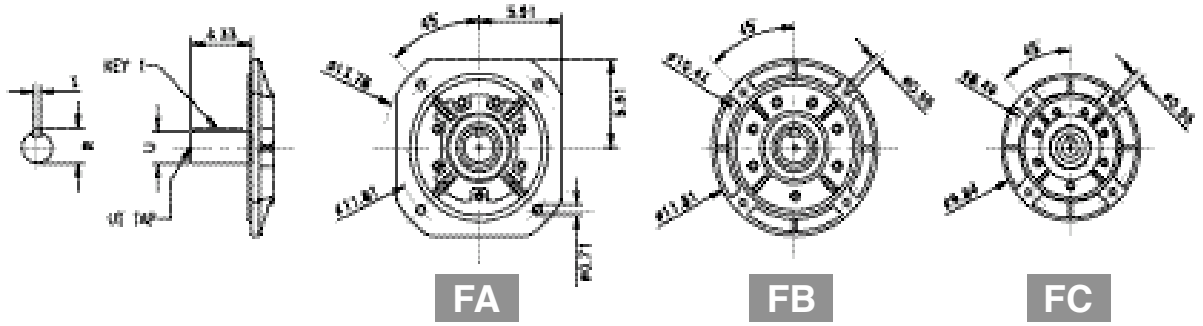
	Standard Motor			Brake Motor		
	X	Y	Z	X	Y	Z
IEC 132S	15.59	9.78	7.64	19.09	9.78	7.64
132M/L	17.46	9.78	7.64	21.14	9.78	7.64

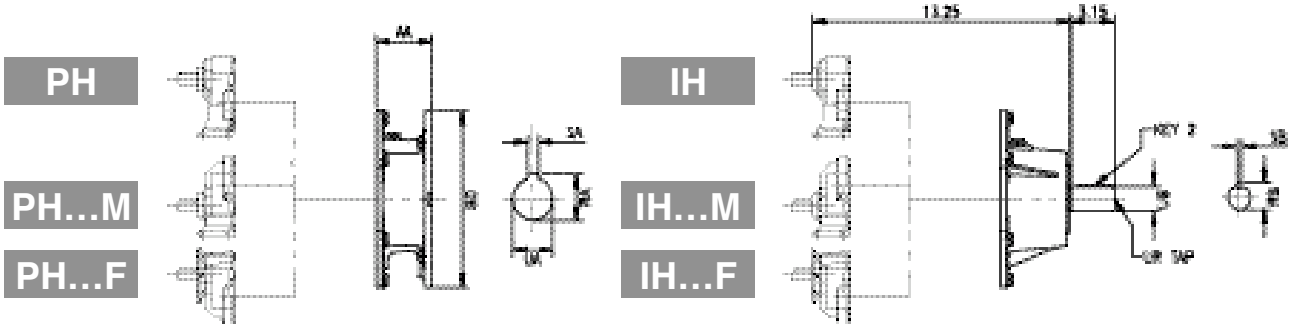
Dimensions for motor connections available on page 100.

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

Shipping Weights on page 244.

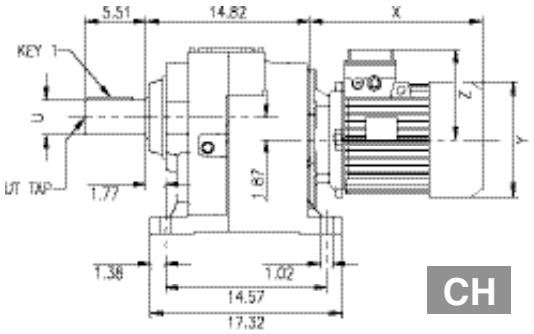




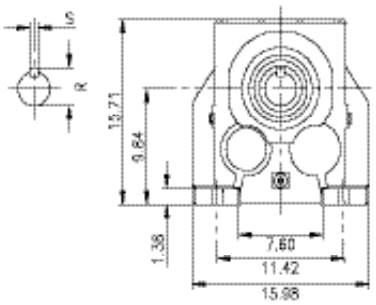


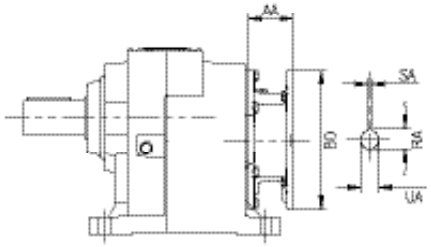
		UA	RA	SA	AA	BD
NEMA	210TC	1.375 $^{+0.0010}_{-0.0000}$	1.52	0.3125	5.65	9.06
	250TC	1.625 $^{+0.0010}_{-0.0000}$	1.80	0.3750	5.65	9.06
	280TC	1.875 $^{+0.0010}_{-0.0000}$	2.10	0.5000	6.89	11.02
IEC	132	38mm $^{+0.050mm}_{+0.025mm}$	41.3mm	10mm	101mm	300mm B5
	160	42mm $^{+0.050mm}_{+0.025mm}$	45.3mm	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

122/3 H Dimensions



CH





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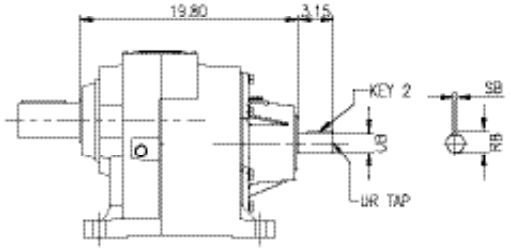

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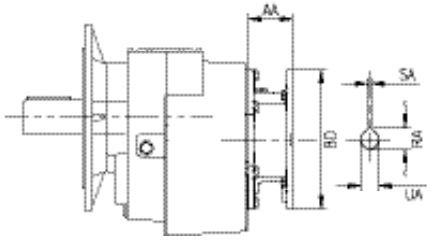

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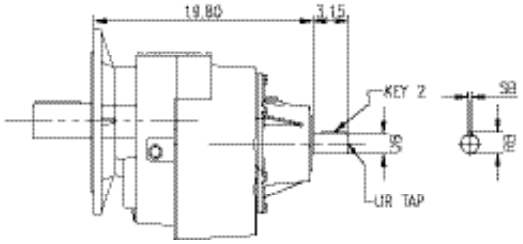


IH...F

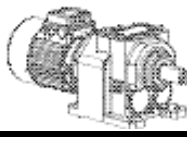
U	R	S	UT TAP	KEY 1	UB	RB	SB	UR TAP	KEY 2
2.875 +0.0000 -0.0010	3.20	0.750	3/4-10	3/4x3/4x4	1.625 +0.0000 -0.0010	1.79	0.3750	5/8-11	3/8x3/8x2-1/2
70mm +0.030mm +0.011mm	74.5mm	20mm	M20	18x11x100mm	38mm +0.018mm +0.002mm	41mm	10mm	M12	10x8x60mm

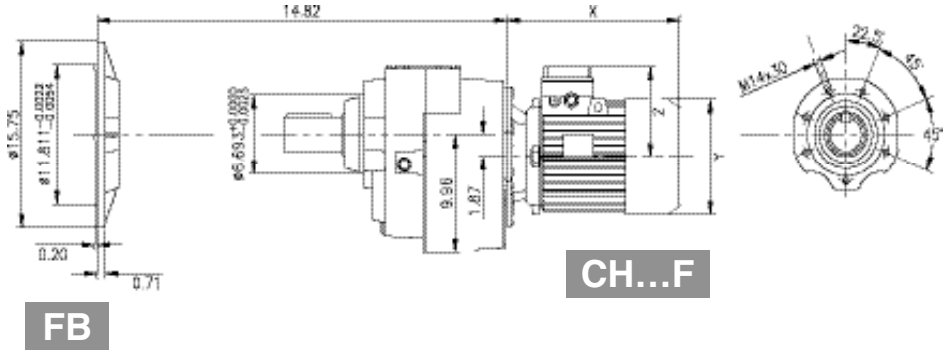
		Standard Motor			Brake Motor		
		X	Y	Z	X	Y	Z
IEC	100	12.85	7.52	5.45	16.02	7.52	5.45
	112	13.76	8.29	6.04	17.44	8.29	6.04
	132S	15.59	9.78	7.64	19.09	9.78	7.64
	132M/L	17.46	9.78	7.64	21.14	9.78	7.64

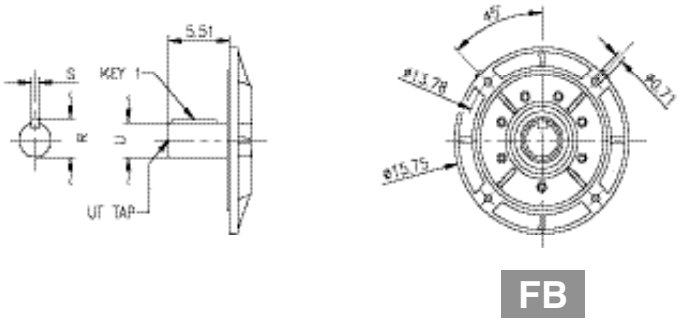
Dimensions for motor connections available on page 100.

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

Shipping Weights on page 244.

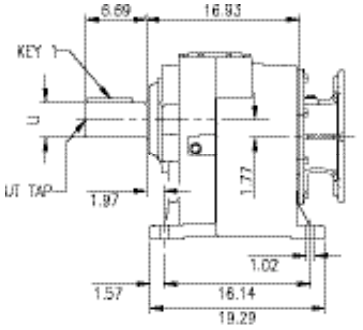


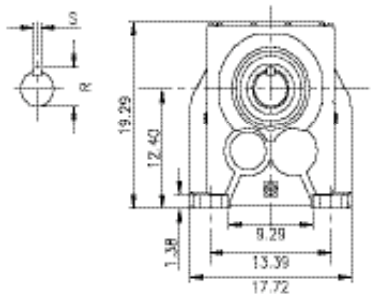




		UA	RA	SA	AA	BD
NEMA	180TC	1.125 +0.0010 -0.0000	1.24	0.2500	3.17	9.06
	210TC	1.375 +0.0010 -0.0000	1.52	0.3125	5.65	9.06
	250TC	1.625 +0.0010 -0.0000	1.80	0.3750	5.65	9.06
	280TC	1.875 +0.0010 -0.0000	2.10	0.5000	6.89	11.02
	320TC	2.125 +0.0015 -0.0000	2.35	0.5000	7.03	13.39
IEC	100	28mm +0.028mm +0.007mm	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

142/3 H Dimensions





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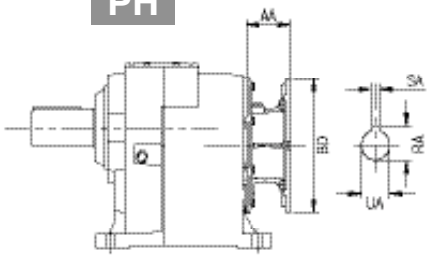
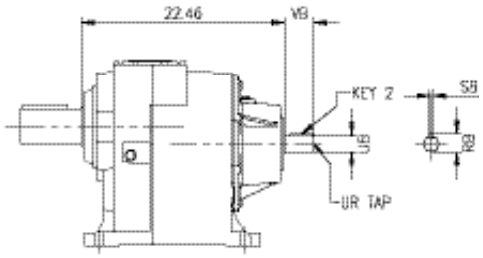
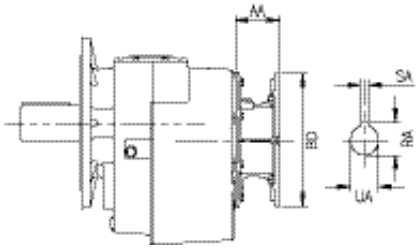


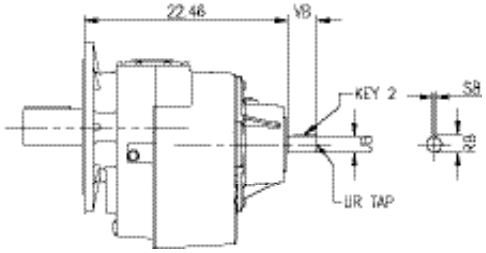
PH



IH



PH...F



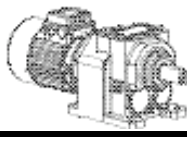
IH...F

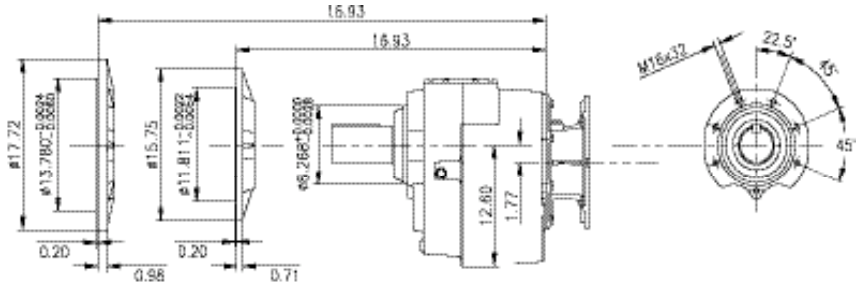
U	R	S	UT TAP	KEY 1	UB	VB	RB	SB	UR TAP	KEY 2
3.625 $^{+0.0000}_{-0.0010}$	4.01	0.875	1-8	7/8x7/8x5	1.625 $^{+0.0000}_{-0.0010}$	3.15	1.79	0.3750	5/8-11	3/8x3/8x2-1/2
90mm $^{+0.035mm}_{+0.016mm}$	95mm	25mm	M20	25x14x140mm	42mm $^{+0.018mm}_{+0.002mm}$	110mm	45mm	12mm	M16	12x8x90mm

Dimensions for motor connections available on page 100.

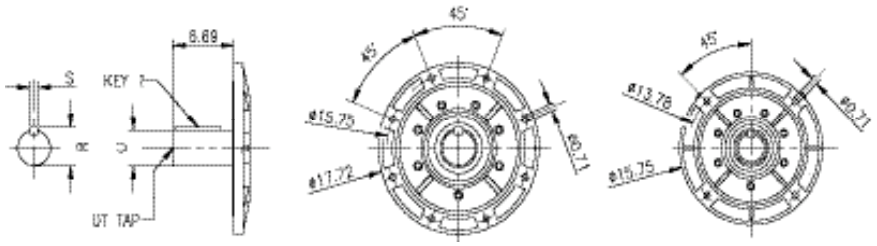
Diameter of motor or motor flange may protrude below mounting feet of reducer. Please check motor connection for conflicts.

Shipping Weights on page 244.



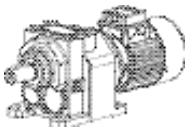


FB FC PH...F



FB FC

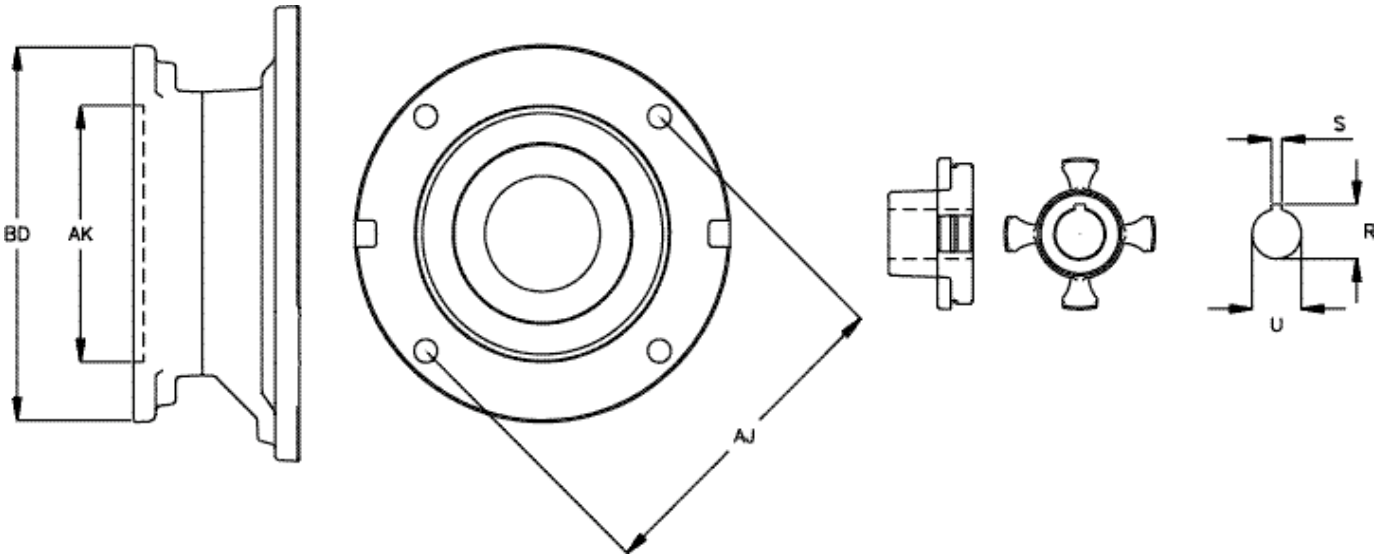
		UA	RA	SA	AA	BD
NEMA	180TC	1.125 $^{+0.0010}_{-0.0000}$	1.24	0.2500	2.20	9.06
	210TC	1.375 $^{+0.0010}_{-0.0000}$	1.52	0.3125	4.69	9.06
	250TC	1.625 $^{+0.0010}_{-0.0000}$	1.80	0.3750	4.69	9.06
	280TC	1.875 $^{+0.0010}_{-0.0000}$	2.10	0.5000	5.93	11.02
	320TC	2.125 $^{+0.0015}_{-0.0000}$	2.35	0.5000	6.28	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



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