Table Of Contents

***NOTE**: In accordance with the policy of **DARALI® GROUP** to constantly improve its product, the specifications in this catalog are subject to change without prior notice.*

Catalog Quick Overview

Torque Specification - *Page 23 ~ Page 40*

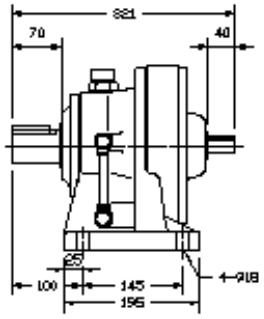
- Single stage torque rating (6:1 ~ 87:1) can be found on page 23 ~ page 28. Double stage torque rating (102:1 ~ 7569:1) can be found on page 29 ~ page 40. **Remember to refer to the column with appropriate input speed (i.e. 1750, 1460, 1165, or 870).**

87 : 1

Input rpm	1750	
Output rpm	20.1	
DARALI Frame Size	**Input Power (hp)**	**Output Torque (in-lb)**
B09	0.34	812
B10	0.67	1940

Product Specification - *Page 49 ~ Page 114*

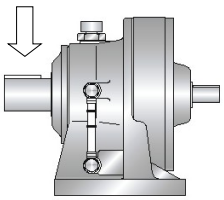
- Page 49 ~ page 114 of this catalog consists of dimensions for DARALI® DRIVES with various configurations. ***Due to the fact that all dimensions in the DARALI® DRIVES design except shafts and keys are of the true metric dimensions, the units of these dimensions are shown in mm.*** The shafts and keys of DARALI® DRIVES for the North American market are of the true English dimensions. The units of shafts and keys dimensions are shown in inch.



Overhung Load (OHL) - *Page 41 ~ Page 44*

- Page 41 ~ page 44 of this catalog consists of information for calculating overhung load. The calculation procedure can sometimes get quite complicated. Feel free to contact factory for assistance in OHL calculation. OHL consideration is applicable to applications utilizing sheaves and/or sprockets. You can minimize OHL by 1). making sure the sheaves/sprockets are positioned closed to the oil seal surface, and 2). making sure the non-pulling strand of chain is slack. Applications involving slow output speed, small sheave/sprocket pitch diameter, heavy shock load, and/or flat-belt absolutely require careful OHL considerations to determine the appropriate DARALI® DRIVES frame size.

Overhung Load



Nomenclature - *Page 9 ~ Page 10*

B18 - 87:1 - X H U - S

- Each DARALI® product number consists of six major components:
  - **1).** Frame Size - B07~B27, A90~A93, B0707~B2917, A904~A939
  - **2).** Reduction Ratio - 6:1~87:1 (Single Stage), 102:1~7569:1 (Double Stage)
  - **3).** Input Method - Free Input Shaft, Adapter, and Integral Gearmotor
  - **4).** Mounting Style - H (Foot Mount), V (Flange Mount), F (Face Mount)
  - **5).** Output Direction - For frame sizes B07~B12 that are grease packed, the output direction becomes less relevant. However, for the larger frame sizes (B13 and above) that are normally oil lubricated, knowing the output direction is extremely important especially when the speed reducer is pointing up or down. By knowing the output direction of the application, factory will perform necessary alteration of lubrication (i.e. grease rather than oil) and bearing (i.e. sealed rather than open) in order to make sure all torque transmission components inside the speed reducer receive adequate lubrication during operation.
  - **6).** Special Features - Any feature indescribable by our conventional nomenclature is designated with an S followed by a parenthesized description [i.e. (S=.....etc)] below the part number.

B17-71:1-5MHH

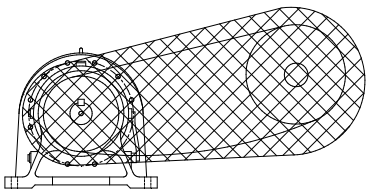
B11-29:1-AVD180

B1611-319:1-QHH56C

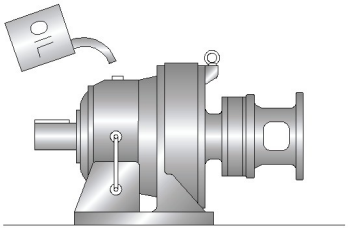
B11-17:1-QFH86C

B13-59:1-XHH

Installation - *Page 20*

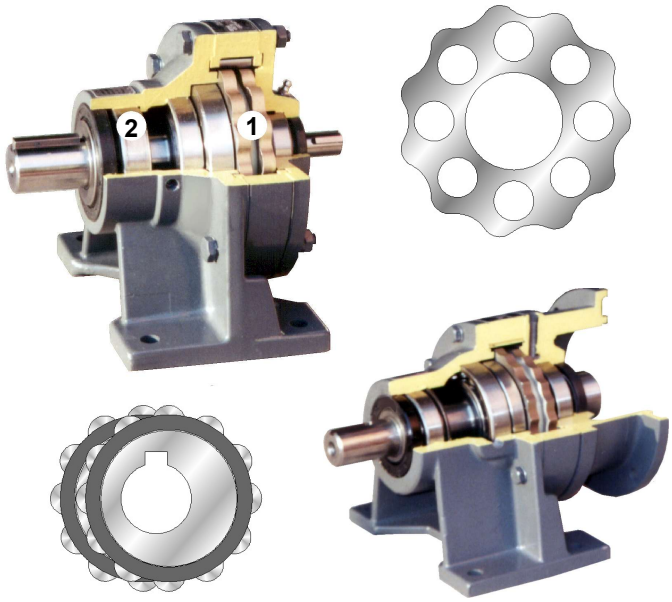


Lubrication - *Page 21 ~ Page 22*

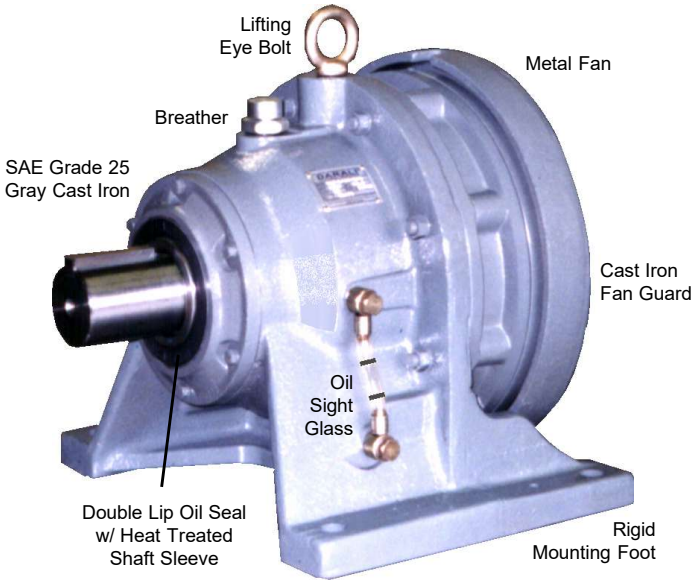


DARALI® DRIVES Design Features

(1) - The torque transmitting components of DARALI® DRIVES utilize superior quality bearing grade steel produced by world class steel companies in **GERMANY** and **SWEDEN** .



(2) - DARALI® DRIVES utilize superior quality rolling bearings manufactured by the following companies: **NSK**, **SKF**, **FAG**, **NTN**, **KOYO**, and **NACHI**.



◆ *500%* SHOCK LOAD CAPACITY
Superior ***industry-proven*** and ***application-proven*** cycloidal design is unparalleled by helical, planetary, or worm gear speed reducers. This design utilizes compression contact on 66% of the ring gear pins/rollers. There are no gear teeth to break off; catastrophic failure cannot occur.

◆ HOUSING - Standard SAE Grade 25 (JIS FC25) gray cast iron provides ***Rigid Structural Integrity***. SAE Grade 45 (JIS FCD45) ductile iron housing with double-row spherical roller bearing is also available for severe duty applications.

◆ OUTPUT SHAFT - AISI 1055 (JIS S55C) forged steel with oversized bearings provide excellent overhung load capacity and outstanding performance.

◆ INPUT SHAFT - AISI 4340 (JIS SCM4) carbon molybdenum steel.

◆ SHAFT SLEEVE - ***Heat treated***, ***hardened***, and ***tempered*** shaft sleeve provides optimum oil seal performance; no worries for oil leakage !!

◆ DUAL LIPS OIL SEAL - Keeps lubricant in; keeps dirt out.

◆ DIRECT DROP-IN FIT - Major dimensions such as bolt hole pattern, shaft center height, shaft diameter are identical to other cycloidal reducers in the market.

◆ TORQUETRANSMITTING COMPONENTS - AISI 5100 (JIS SUJ2) high carbon chromium bearing grade steel ***through-hardened*** via heat treatment and tempered to H_RC ***61~63***. Excellent characteristic against wear, and provides superior long service life.

◆ *CAST IRON* FAN GUARD and metal fan blade can be used for chemical duty. Strong resistance against damage during transit and disassembly.

◆ SIMPLE MAINTENANCE - lifetime grease lubrication or easy-to-replenish oil lubrication.

◆ BREATHER FILLER CAP - large oil filler hole. Oil cap also functions for pressure release purpose.

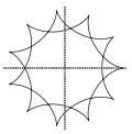
◆ SIGHT GLASS (Oil Lube Models) - For easy oil level and clarity inspection. It can be installed on either side. Markers also on the sight glass to show how much oil to fill.

◆ DRAIN PLUGS (Oil Lube Models) - Two drain plugs for simple oil drainage.

◆ RIGID MOUNTING FOOT DESIGN – Enhanced high structural integrity to resist shock load.

◆ LIFTING EYE BOLT - Frame size B16 and above are furnished with lifting eye bolt for easy handling.

What Is A Cycloidal Speed Reducer?



The word *Cycloid*, with its adjective *Cycloidal*, is derived from *Hypocycloid* which describes the curve traced by a point on the circumference of a smaller circle rotating inside the circumference of a larger fixed circle. Just like words such as helical, worm, spur, and bevel, *cycloidal* is a generic adjective; it merely describes the gearing mechanism inside the speed reducer.

- To understand the operating principle, you should first know how to determine the reduction ratio of a cycloidal reducer.

Ratio = (P-L) / L

Where P = Number of ring gear pins/rollers
L = Number of lobes on a cycloidal disc

For example, please refer to drawing on the right, the number of ring gear pins/rollers (P) equals 12, and the number of lobes (L) on the cycloidal disc equals 11.

Ratio = (12-11) / 11 = 1 / 11 = 11:1

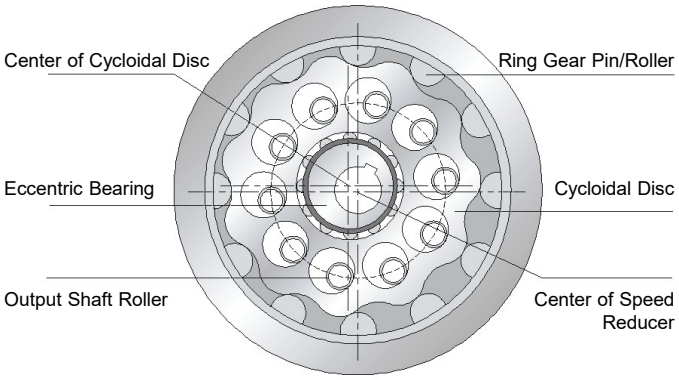
- As the input shaft turns, the eccentric bearing goes into a cam motion. This cam motion exerts an outward radial force on the cycloidal disc (Figure 1).

Confined inside the ring gear housing with pins/rollers, the cycloidal disc goes into a planetary motion as the eccentric bearing turns. See Figure 2, as a smaller circle rotates inside the circumference of a larger circle, the smaller circle goes into a planetary motion. Relative to its own center, the smaller circle is rotating in the CCW direction. However, relative to the center of larger circle, the smaller circle is advancing in the CW direction. (Figure 2, left) Cycloidal mechanism works the same way. The smaller circle as described earlier is now almost as large as the larger circle and has the shape of a cycloidal disc. The larger circle now has the shape of a ring gear with pins/rollers. (Figure 2, right) As the eccentric bearing drives the cycloidal disc, the cycloidal disc rotates in one direction relative to its own center. However the cycloidal disc advances in the opposite direction relative to the center of the speed reducer. This planetary motion looks almost like the wobbling movement of hula hoops.

As the eccentric bearing turns one revolution, the cycloidal disc advances in the opposite direction by (360/L) degrees or (P/L) pitches of pins/rollers. (Figure 3) **Output direction of the single stage cycloidal reducer equals to the opposite of input direction.**

In order to convert the wobbling motion of a cycloidal disc into the smooth concentric movement of output shaft, several output shaft rollers are placed inside the small circles of a cycloidal disc. These rollers are also attached to the output shaft pins. The difference (2C) between the diameter of output shaft roller and the small circle is exactly twice the eccentricity (C) of eccentric bearing. This distance (2C) is also the radial difference between the valley and crest of a cycloidal disc lobe. (Figure 4)

With the arrangement above, the mechanism is capable of converting the rocking motion of an eccentric bearing into the wobbling planetary motion of a cycloidal disc. This motion is then transformed to the smooth concentric movement of output shaft through the output shaft rollers. The speed reduction is achieved, and torque transmission is accomplished.



Cutaway View of a Ring Gear Sub-Assembly

Figure 1

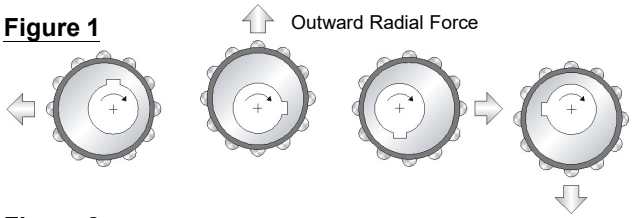


Figure 2

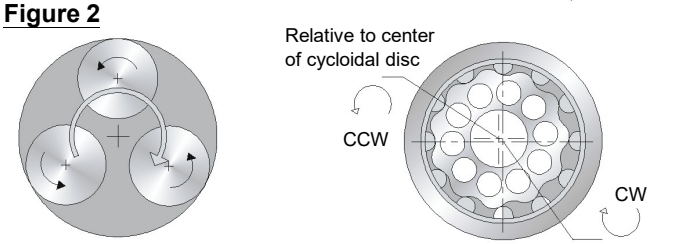
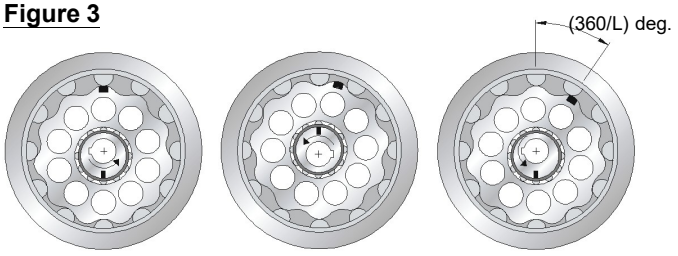
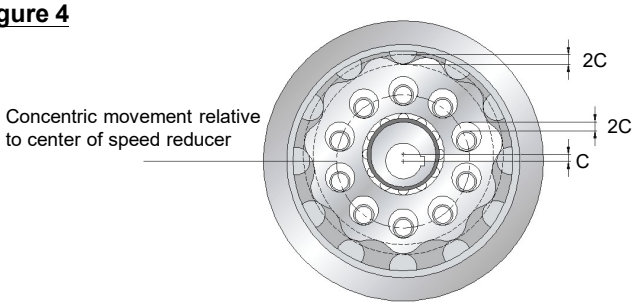


Figure 3



As the eccentric bearing turns one revolution, the cycloidal disc rotates in the opposite direction equal to (360/L) degree or (P/L) pitches of roller/pin.

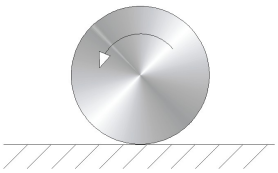
Figure 4

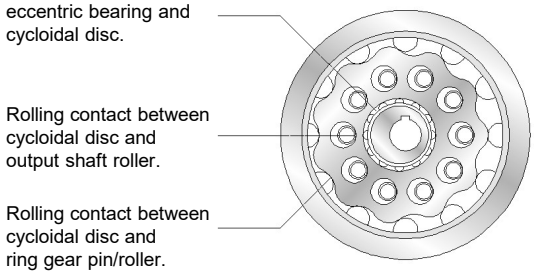


Cycloidal Advantage

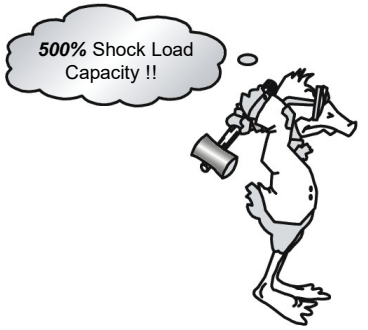
1. Rolling Contact - All major torque transmitting components roll; they do not slide. Rolling motion contributes to minimal friction and high efficiency. Single stage efficiency approaches 95%, and double stage efficiency approaches 90%.

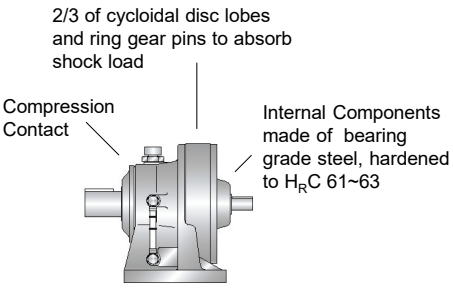
Rolling contact, with minimal friction, contributes to high operating efficiency

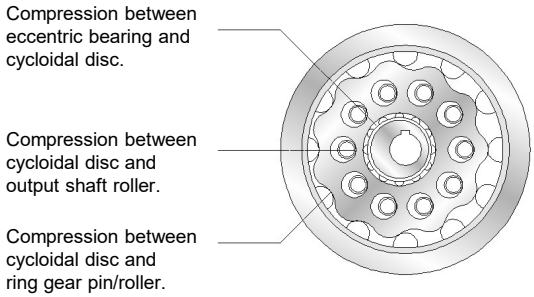




2. Torque transmitting elements experience COMPRESSION; they do not shear - Unlike involute gear mechanism which has only 1 or 2 teeth to absorb the entire shock load with possible gear teeth breakage, at least 66% of ring gear rollers and cycloidal disc lobes share the shock load under compression (Frame size B10 and above with twin disc design). In addition, major torque transmission components inside the DARALI® Cycloidal Reducers are made of 52100 (JIS SUJ2) bearing grade steel and heat treated to Rockwell Hardness of H_RC 61~63. The end result is that **DARALI® Cycloidal Reducers are capable of withstanding intermittent shock load up to 500% of its catalog torque rating.**

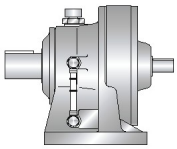






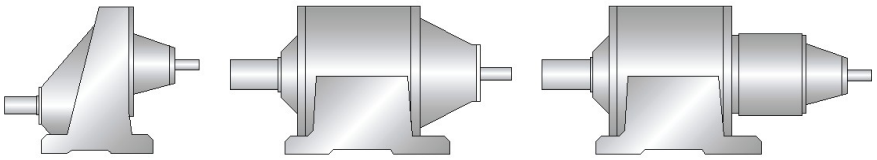
3. Compactness - Unlike helical speed reducers which require additional stages to achieve higher reduction ratio (increased size/weight, decreased efficiency, more bearings and gears to maintain), changing the ratio of DARALI® Cycloidal Reducers (up to 87:1) involves only the changing of ring gear rollers, cycloidal disc lobes, and eccentric bearing. The physical dimensions of speed reducers remain the same.

Cycloidal Reducer Single Stage
6:1 ~ 87:1



Physical dimensions and number of components remain unchanged.

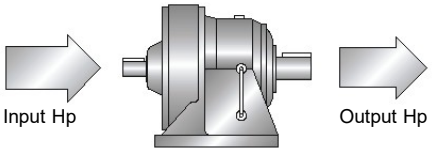
Helical Speed Reducer
Single Stage up to 7:1 or 8:1



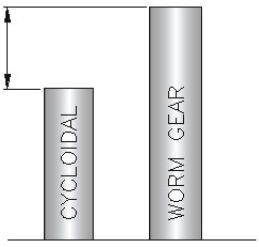
Each additional stage requires two extra bearings and one extra gear; increased size/weight, decreased efficiency, more components to maintain.

4. Excellent performance against worm gear reducers - Rolling motion creates minimal friction. Minimal friction contributes to minimal wear and minimal heat generation. Worm gear reducers performance are greatly limited by thermal rating. DARALI® Cycloidal Reducers with rolling components internally, enjoy minimal heat loss. The thermal capability of each frame size and ratio of DARALI® Cycloidal Reducers exceed its mechanical capability. Worm gear reducers are characterized by lower efficiency; you can select a smaller size DARALI® Cycloidal Reducer and still enjoy larger output power. The end result is longer service life and tremendous energy saving !!

Thermal rating exceeds mechanical capability

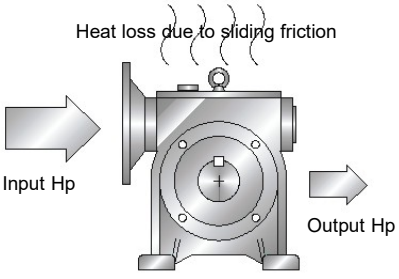


$$ Energy Saving Throughout Duration of Service !!

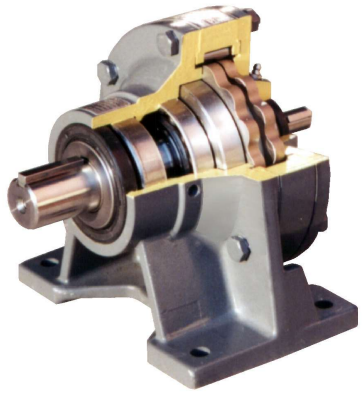


Energy Consumption Based on Same Output Torque

Heat loss due to sliding friction



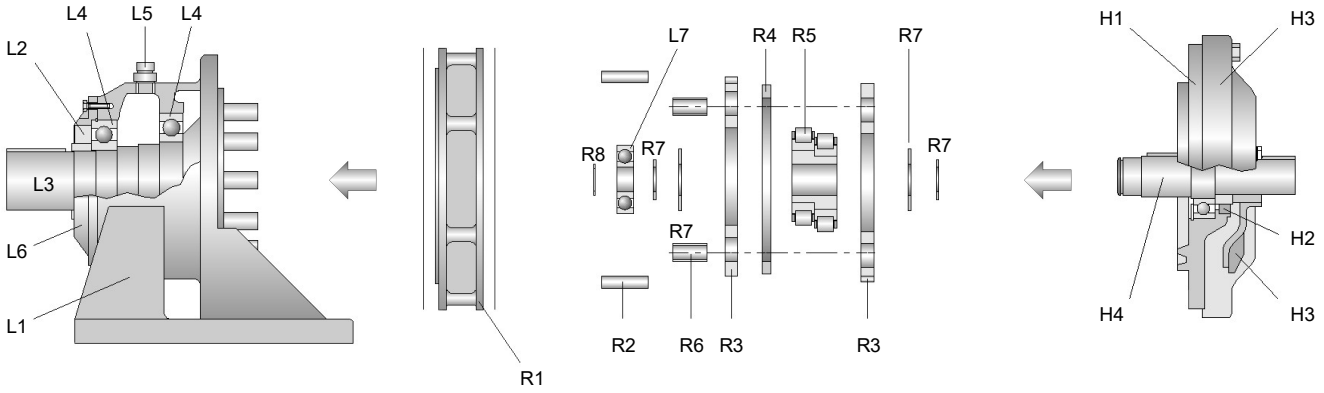
Anatomy of DARALI® Cycloidal Reducers



Each DARALI® Cycloidal Speed Reducer is constructed with three major sub-assemblies: output sub-assembly, ring gear sub-assembly, and input sub-assembly.

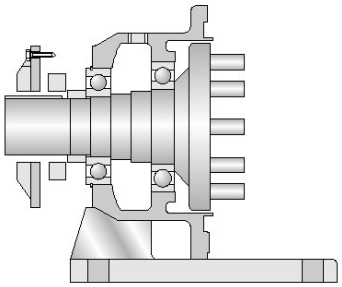
The input and output sub-assemblies are generic within each frame size. That is, disregard what the reduction ratio is (between 6:1 and 87:1), the same input and output assemblies are used to assemble speed reducers in the same frame size. The ring gear sub-assembly determines the reduction ratio of a DARALI® Cycloidal Reducer.

This unique modular design greatly enhance your capability to maximize inventory flexibility. You may stock the same input and output assemblies with various ring gear kit. You would then have the capability to build the reducers with various reduction ratios. Contact us for more details of our distributor-friendly **DARALI® DRIVES Assembly Program.**



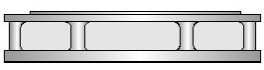
OUTPUT SUB-ASSEMBLY
**Generic within each frame*

Major Components:
L1 - Output Casting
L2 - Oil Seal
L3 - Slow Speed Shaft with Pins
L4 - Slow Speed Shaft Bearings
L5 - Oil Filler Cap (B13 and above)
L6 - Oil Seal Housing (B13 and above)
L7 - High Speed Shaft End Bearing



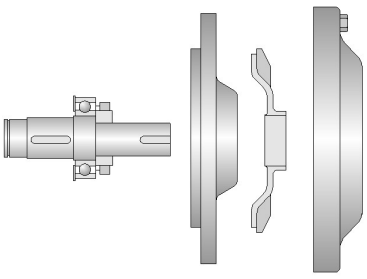
RING GEAR SUB-ASSEMBLY
**The Reduction Ratio Kit*

Major Components:
R1 - Ring Gear Casting w/ 2 Gaskets
R2 - Ring Gear Pins/Rollers
R3 - Cycloidal Disc(s)
(B07~B09: 1 Disc w/ Counter Weight. B10 and above: 2 discs)
R4 - Cycloidal Disc Spacer
(B10 and above)
R5 - Eccentric Bearing
R6 - Slow Speed Shaft Rollers
R7 - Bearing Spacers
R8 - Snap Ring

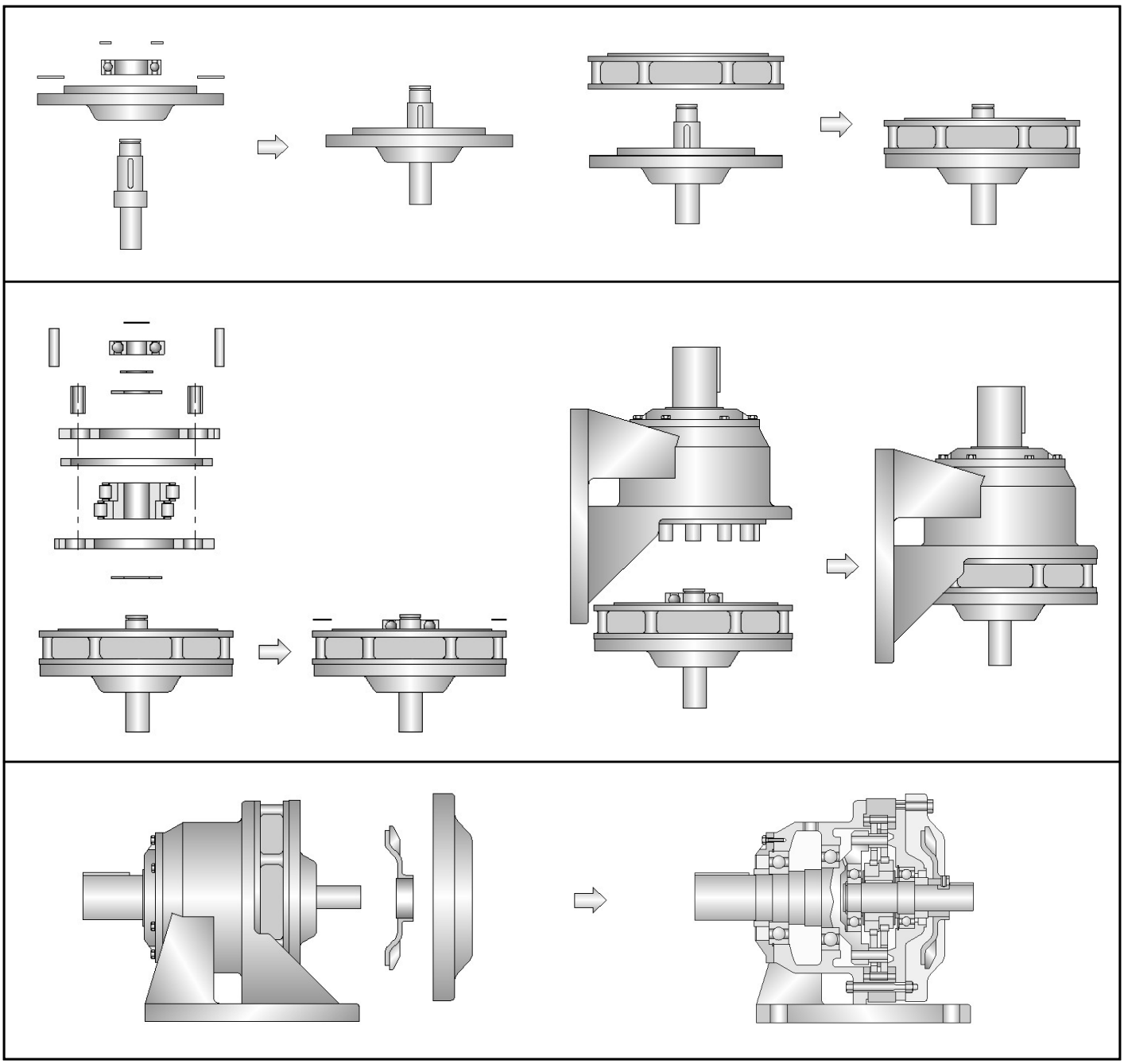


INPUT SUB-ASSEMBLY
**Generic within each frame*

Major components:
H1 - Input Cap
H2 - Oil Seal
H3 - Cooling Fan and Fan Cover
(B16 and above)
H4 - High Speed Shaft w/ 1 Bearing



Assembling A DARALI® Cycloidal Reducer



ASSEMBLY PROCEDURES

1. Put bearing into input cap.
2. Secure bearing with snap ring.
3. Put high speed shaft into bearing.
4. Put gasket on input cap.
5. Put ring gear housing on top of input cap.
6. Place the bearing spacer on top of the high speed shaft bearing. (For frame sizes of B17 and above, place another spacer on top of the previous spacer. This prevents the separation of eccentric bearing hub and raceways due to heat.)
7. Place eccentric bearing key on internal key slot of high speed shaft.
8. Place first cycloidal disc on top of input cap.
9. Insert eccentric bearing.
10. Place disc spacer on top of the first cycloidal disc.
11. Place the second cycloidal disc on top of the disc spacer. Make sure it is 180 degree offset from the first disc, otherwise the unit will not turn. (omit this step for frame sizes of B07 to B09 due to single disc design)
12. Insert low speed shaft rollers between two discs. Turn the high speed shaft and make sure it can be turned freely and the low speed shaft rollers are free to turn.
13. Place bearing spacer on top of eccentric bearing. (For frame sizes of B17 and above, place first the eccentric bearing spacer on top of eccentric bearing.)
14. Insert high speed shaft end bearing into shaft.
15. Secure high speed shaft end bearing with snap ring. (omit this step for frame sizes B07 to B10)
16. Place gasket on top of ring gear housing
17. Place output sub-assembly on top of ring gear housing, and tighten the unit with fasteners. Turn high speed shaft and make sure unit can be turned freely.
18. For frame sizes of B16 and above, install fan blade and fan cover behind input cap.

*** Contact factory for a more detailed assembly manual covering individual frame sizes and models**

Part Number Composition

B18	-	87:1	-	X	H	U	-	S
DARALI® FRAME SIZE		**REDUCTION RATIO**		**INPUT METHOD** (SEE BELOW)	**MOUNTING CONFIG.** (SEE BELOW)	**OUTPUT DIRECTION** (SEE BELOW)		**SPECIAL FEATURE** (SEE BELOW)

1). Select the appropriate frame size and reduction ratio

Calculate the reduction ratio using input and output speed requirements. Multiply load torque by the appropriate service factor (SF) to determine the design torque requirement. Based on the design torque, find appropriate frame size from the TORQUE RATING table. Please refer to page 15 ~ 16 for a complete sizing example.

*** Single reduction from 6:1 ~ 87:1, double reduction from 102:1 ~ 7569:1. Imagine triple reduction and beyond !*

2). Determine the input method and mounting configuration

A DARALI® Cycloidal Reducer consists of three sub-assemblies: input, ring gear, and output. In this step, you will come up with the input method and mounting configuration.

INPUT METHOD

Shaft-In/Shaft-Out **X** (B07~B27, A90~A93)

C-Face Adapter **A** (B08~B19)

Quill Input (NEMA) **Q** (B09~B16)

Quill Input (IEC) **JP** (B09~B20)

RING GEAR SUB-ASSEMBLY (Reduction Ratio Kit)

Integral Gearmotor **#M** (B07~B27,A90~A93)

Top Motor Mount **T** (B11~B19)

Variator Input **D** (1/2 HP ~ 5 HP)

Scoop Motor Mount **S** (B11~B27, A90~A93)

MOUNTING CONFIG.

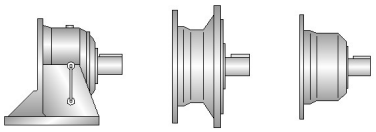
Foot Mount **H** (B07~B27,A90~A93)

V-Flange Mount **V** (B07~B27,A90~A92)

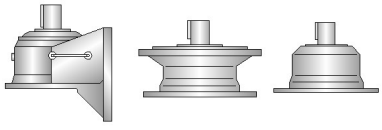
F-Face Mount **F** (B07~B17)

3). Determine the direction of output shaft

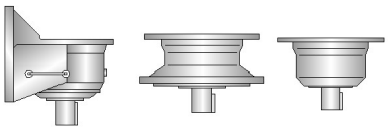
This step is especially important for oil lubricated units operating in the vertical orientation. By knowing the exact orientation of output shaft, we are able to change the corresponded shaft bearings to the sealed type. Performing the above procedure assures all torque transmitting mechanisms inside the speed reducers are lubricated. If factory is not informed of the proper orientation of output shaft, vertical application units may be subjected to premature bearing failure due to insufficient lubrication.



Output Direction = **(H)**orizontal



Output Direction = **(U)**p

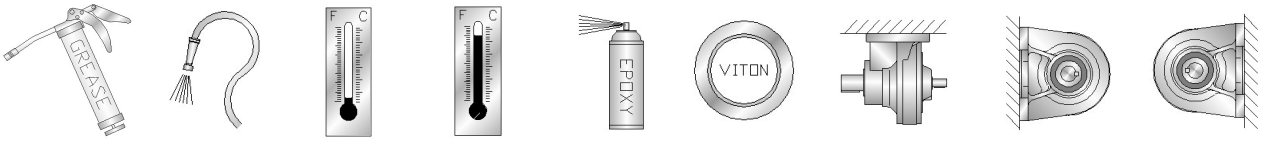


Output Direction = **(D)**own

4). Special features

The special feature codes for some of the more popular non-standard features are listed below. Any feature unable to be described by our conventional nomenclature shall be designated with an **S** followed by a parenthesized description [i.e. (S=.....etc)] below the part number.

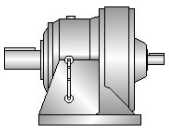
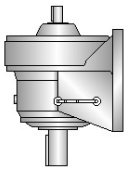
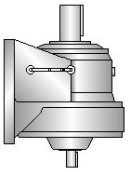
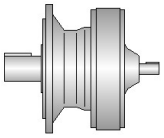
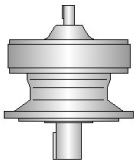
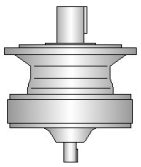
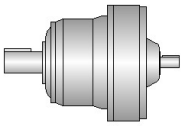
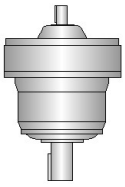
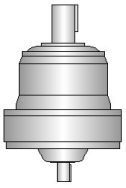
G	W	C	H	E	V	F	L	R	S
Grease Packed	Washdown Duty	Low Temp Environment	High Temp Environment	Epoxy Paint	Viton Seals	Ceiling Mount	Wall Mount	Wall Mount	Other Features



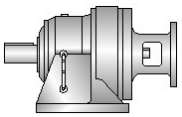
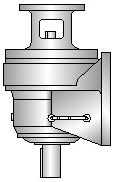
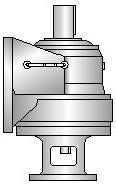
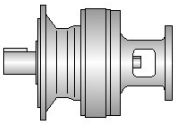
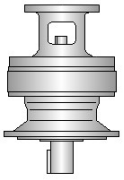
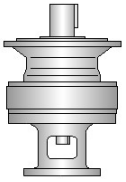
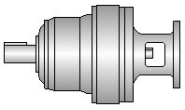
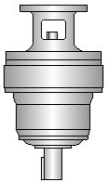
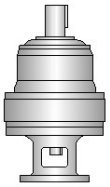
Product Configurations

- DARALI® DRIVES offer numerous input methods and various mounting styles. Together with different orientations of output shaft, our wide range of product configurations virtually meets all of your application requirements.
- Locate the product configuration from the chart below. Go to the appropriate page for detailed product dimensions. For torque ratings, please refer to page 23 ~ page 40.

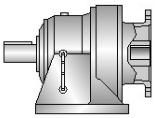
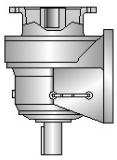
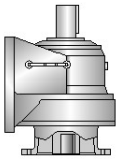
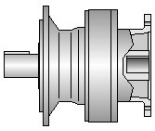
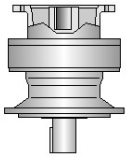
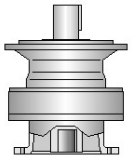
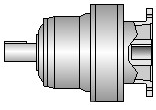
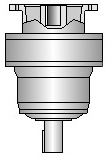
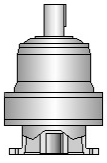
- Free Input Shaft

 XHH Page 49	 XHD Page 49	 XHU Page 49
 XVH Page 53	 XVD Page 53	 XVU Page 53
 XFH Page 57	 XFD Page 57	 XFU Page 57

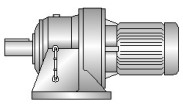
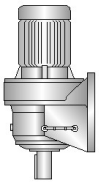
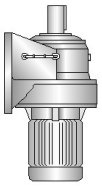
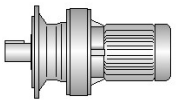
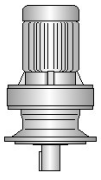
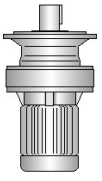
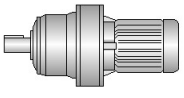
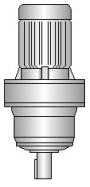
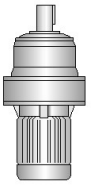
- Coupling Style C-Face Adapter

 AHH Page 59	 AHD Page 59	 AHU Page 59
 AVH Page 63	 AVD Page 63	 AVU Page 63
 AFH Page 67	 AFD Page 67	 AFU Page 67

- Quill Style C-Face Adapter

 QHH / JPHH Page 69 / 75	 QHD / JPHD Page 69 / 75	 QHU / JPHU Page 69 / 75
 QVH / JPVH Page 71 / 76	 QVD / JPVD Page 71 / 76	 QVU / JPVU Page 71 / 76
 QFH Page 73	 QFD Page 73	 QFU Page 73

- Integral Gearmotor

 MHH Page 81	 MHD Page 81	 MHU Page 81
 MVH Page 95	 MVD Page 95	 MVU Page 95
 MFH Page 109	 MFD Page 109	 MFU Page 109

Loading Classifications

Under normal loading, DARALI® Cycloidal Reducers can operate continuously without breakdowns. Therefore, you will enjoy trouble free operation. However, careful selection of model must be considered for various applications and configurations. For intermittent or periodic use, the smaller models may be chosen. On the other hand, if starting torque and starting frequency are high, consider using a larger service factor or a heavier duty model instead. Use the chart below to determine the loading classification of your application. Multiply your load torque by the appropriate service factor corresponded to the loading classification and operating hours per day.

AGMA LOAD CLASSIFICATIONS

APPLICATION (LOAD NATURE)
Agitators
Pure Liquids (U)
Liquids & Solids (M)
Variable-Density Liquids (M)
Blowers
Centrifugal (U)
Lobe (M)
Vane (U)
Brewing and Distilling
Bottling Machinery (U)
Brew Kettles, cont. duty (U)
Cookers, cont. duty (U)
Mash Tubs, cont. duty (U)
Scale Hopper, freq. starts (M)
Can Filling Machines (U)
Cane Knives (M)
Car Dumpers (H)
Car Pullers (M)
Clarifiers (U)
Classifiers (M)
Clay Working Machineries
Brick Press (H)
Briquette Machine (H)
Clay Working Machinery (M)
Pug Mill (M)
Compressors
Centrifugal (U)
Lobe (M)
Reciprocating, multi-cyl. (M)
Reciprocating, single-cyl. (H)
Conveyors - Uniformly Loaded or Fed
Apron (U)
Assembly (U)
Belt (U)
Bucket (U)
Chain (U)
Flight (U)
Oven (U)
Screw (U)
Conveyors - H. Duty, Ununiformly Fed
Apron (M)
Assembly (M)
Belt (M)
Bucket (M)
Chain (M)
Flight (M)
Live Roll Oven (M)
Reciprocating (H)
Screw (M)
Shaker (H)
Cranes (Except for Dry Dock Cranes)
Main Hoists (U)
Crusher
Ore (H)
Stone (H)
Sugar (M)
Dredges
Cable Reels (M)
Conveyors (M)
Cutter Head Drives (H)
Jig Drives (H)
Maneuvering Winches (M)
Pumps (M)
Screen Drive (H)
Stackers (M)
Utility Winches (M)
Elevators
Bucket, uniform load (U)

APPLICATION (LOAD NATURE)
Bucket, heavy load (M)
Bucket, cont. (U)
Centrifugal Discharge (U)
Escalators (U)
Freight (M)
Gravity Discharge (U)
Extruders (Plastics)
Blow Molders (M)
Coating (U)
Film (U)
Pipe (U)
Pre-Plasticizers (M)
Rods (U)
Sheet (U)
Tubing (U)
Fans
Centrifugal (U)
Cooling Towers (M)
Forced Draft (M)
Induced Draft (M)
Large, mine, etc. (M)
Large, Industrial (M)
Light, Small Diameter (U)
Feeders
Apron (M)
Belt (M)
Disc (U)
Reciprocating (H)
Screw (M)
Food Industry
Beet Slicer (M)
Cereal Cooker (U)
Dough Mixer (M)
Meat Grinders (M)
Generators, Not Welding (U)
Hammer Mills (H)
Hoists
Heavy Duty (H)
Medium Duty (M)
Skip (M)
Laundry Washers - Reversing (M)
Laundry Tumblers (M)
Line Shaft
Drive Processing Equip. (M)
Light (U)
Other Line Shafts (U)
Lumber Industry
Barkers - Hyd. and Mech. (H)
Burner Conveyor (M)
Chain Saw & Drag Saw
Chain Transfer (H)
Craneway Transfer (H)
Debarking Drum (H)
Edger Feed (H)
Gang Feed (M)
Geen Chain (M)
Live Rolls (H)
Log Haul-Lockline (H)
Log Turning Device (H)
Main Log Conveyor (H)
Off Bearing Rolls (M)
Planer Feed Chains (M)
Planer Floor Chains (M)
Planer Tilting Hoists (M)
Re-Saw M-G-R Conveyor (M)
Roll Cases (H)
Slab Conveyor (H)
Small Waste Conv. Belt (U)

APPLICATION (LOAD NATURE)
Small Waste Conv. Chain (M)
Sorting Table (M)
Tipple Hoist Conveyor (M)
Tipple Hoist Drive (M)
Transfer Conveyor (M)
Transfer Rolls (M)
Tray Drive (M)
Trimmer Feed (M)
Waste Conveyor (M)
Machine Tools
Bending Roll (M)
Notching Press, Belt Drv. (H)
Plate Planer (H)
Punch Press, Gear Drv. (H)
Tapping Machine (H)
Other Machine Tools
Main Drive (M)
Auxiliary Drives (U)
Metal Mills
Draw Bench Carriage (M)
Main Drive (M)
Forming Machines (H)
Slitters (M)
Table Conveyors, Nonreversing
Group Drives (M)
Individual Drives (H)
Table Conveyors, reversing (H)
Wire Drawing & Flattening (M)
Wire Winding Machine (M)
Mills, Rotary Type
Ball (M)
Cement Kilns (M)
Dryers & Coolers (M)
Kilns (M)
Pebble (M)
Rod, Plain & Wedge Bar (M)
Tumbling Barrels (H)
Mixers
Concrete Mixers, cont. (M)
Concrete Mixers, int. (M)
Constant Density (U)
Variable Density (M)
Oil Industry
Chillers (M)
Oil Well Pump (H)
Paraffin Filter Press (M)
Rotary Kilns (M)
Paper Mills
Agitators (M)
Mixers (M)
Barker, hydraulic (M)
Barker, mechanical (M)
Barking Drum (H)
Beater and Pulper (M)
Bleacher (U)
Calendars (M)
Calendars, Super (H)
Converting Machines (M)
Conveyors (U)
Couch (M)
Cutters, Platers (H)
Cylinders (M)
Dryers (M)
Felt Stretcher (M)
Felt Whipper (H)
Jordans (H)
Log Haul (H)
Presses (U)

APPLICATION (LOAD NATURE)
Pulp Machine Reel (M)
Stock Chest (M)
Suction Roll (U)
Washers and Thickeners (M)
Winders (U)
Printing Presses (H)
Pullers, Barge Haul (H)
Pumps
Centrifugal (U)
Proportioning (M)
Reciprocating
Single Acting, >=3 Cyl. (M)
Double Acting, >=2 Cyl. (M)
Rotary-Gear Type (U)
Rubber And Plastic Industry
Crackers (H)
Laboratory Equipment (M)
Mixing Mills (H)
Refiners (M)
Rubber Calendars (M)
Rubber Mill, 2 on line (M)
Rubber Mill, 3 on line (U)
Sheeter (M)
Tire Building Machine (H)
Tire & Tube Press Openers (H)
Tubers & Strainers (M)
Warming Mills (M)
Sand Muller (M)
Screens
Air Washing (U)
Rotary, stone or gravel (M)
Traveling, water intake (U)
Sewage Disposal Equipment
Bar Screens (U)
Chemical Fenders (U)
Collectors, circ. or straight. (U)
Dewatering Screws (M)
Grit Collectors (U)
Scum Breakers (M)
Slow or Rapid Mixers (M)
Sludge Collector (U)
Thickeners (M)
Vacuum Filters (M)
Slab Pushers (M)
Stokers (U)
Sugar Industry
Cane Knives (M)
Crushers (M)
Mills (H)
Textile Industry
Batchers (M)
Calendars (M)
Cards (M)
Dry Cans (M)
Dryers (M)
Dyeing Machinery (M)
Looms (M)
Mangles (M)
Nappers (M)
Pads (M)
Slashers (M)
Soapers (M)
Spinners (M)
Tenter Frames (M)
Washers (M)
U = Uniform Load
M = Moderate Shock
H = Heavy Shock

Recommended Service Factors (S.F.)

SELECTION ON SERVICE FACTOR (S.F.)

When your applications involve conditions more severe than the rating basis of the DARALI® DRIVES, select the frame size having horse power rating equal to or larger than the value obtained by multiplying the actual load by "Service Factor". Chose Service Factor of 2.0 or larger for applications involving frequent start/stop and clutch.

Service Factors for DARALI™ DRIVES

Duration Of Service	Load Nature		
	Uniform	Moderate Shock	Heavy Shock
Up to 3 hrs. per day	1.0	1.0	1.35
3~10 hrs. per day	1.0	1.2	1.5
10~24 hrs. per day	1.2	1.35	1.6

Reduction Ratio & Output Speed

Reduction Ratio / Input Speed (rpm)	6	8	11	13	15	17	21	25	29	35	43	51	59	71	87
	Output Speed (rpm)														
1750 rpm (60Hz - 4P)	292	219	159	135	117	103	83	70	60	50	41	34	30	25	20
1460 rpm (50Hz - 4P)	243	183	133	112	97	86	70	58	50	42	34	29	25	21	17
1165 rpm (60Hz - 6P)	194	146	106	90	78	69	55	47	40	33	27	23	20	16	13
870 rpm (60Hz - 8P)	145	109	79	67	58	51	41	35	30	25	20	17	15	12	10

We manufacture all the reduction ratios listed above, and also carry extensive inventory of spare parts. However, in designing your applications, please select the following standard reduction ratios as much as possible: 11:1, 17:1, 21:1, 29:1, 35:1, 43:1, 59:1, 87:1.

How to use the chart below?

By knowing three variables (input hp, class of service, and reduction ratio) in your application, you can quickly select the correct frame size of DARALI® DRIVES that will suffice your usage needs.

Quick Selection Chart Based On Input HP and Service Class

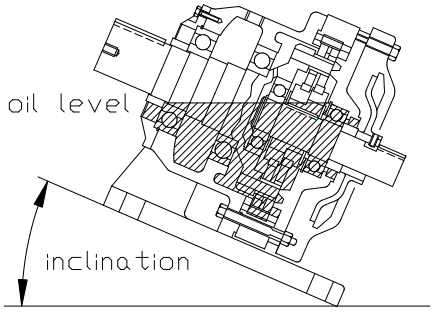
INPUT HP @ 1750 RPM	AGMA CLASS	AGMA S.F.	DARALI DRIVE CLASS	DARALI DRIVE S.F.	REDUCTION RATIO AND FRAME SIZES 6	8	11	13	15	17	21	25	29	35	43	51	59	71	87
1/8	Class I	1.0	Class I	1.0	B08	B08	B07	B07	B07	B07	B07	B07	B07	B07	B07	B08	B08	B09	B09
	Class II	1.4	Class II	1.3	B08	B08	B07	B07	B07	B07	B07	B07	B07	B07	B08	B08	B08	B09	B09
	Class III	2.0	Class III	1.6	B08	B08	B07	B07	B07	B07	B07	B07	B07	B08	B08	B09	B09	B09	B09
1/4	Class I	1.0	Class I	1.0	B08	B08	B07	B07	B07	B07	B07	B08	B08	B08	B08	B09	B09	B09	B09
	Class II	1.4	Class II	1.3	B08	B08	B07	B07	B07	B07	B08	B08	B08	B08	B09	B09	B09	B10	B10
	Class III	2.0	Class III	1.6	B08	B08	B08	B08	B08	B08	B08	B09	B09	B09	B09	B09	B09	B10	B10
1/2	Class I	1.0	Class I	1.0	B08	B08	B08	B08	B08	B08	B08	B09	B09	B09	B09	B10	B10	B10	B10
	Class II	1.4	Class II	1.3	B09	B09	B09	B09	B09	B09	B09	B09	B09	B09	B10	B10	B10	B10	B10
	Class III	2.0	Class III	1.6	B09	B09	B09	B09	B09	B09	B09	B09	B09	B10	B10	B10	B10	B11	B11
1	Class I	1.0	Class I	1.0	B09	B09	B09	B09	B09	B09	B10	B10	B10	B10	B10	B11	B11	B11	B11
	Class II	1.4	Class II	1.3	B09	B09	B09	B09	B09	B09	B10	B10	B10	B10	B11	B11	B11	B11	B11
	Class III	2.0	Class III	1.6	B10	B10	B10	B10	B10	B10	B10	B10	B10	B11	B11	B11	B11	B13	B13
2	Class I	1.0	Class I	1.0	B10	B10	B10	B10	B10	B10	B10	B10	B11	B11	B11	B11	B11	B13	B13
	Class II	1.4	Class II	1.3	B10	B10	B10	B10	B10	B10	B10	B11	B11	B11	B11	B11	B12	B13	B13
	Class III	2.0	Class III	1.6	B11	B11	B11	B11	B11	B11	B11	B11	B11	B11	B13	B12	B13	B14	B15
3	Class I	1.0	Class I	1.0	B11	B11	B10	B11	B10	B11	B11	B11	B11	B11	B11	B12	B13	B14	B14
	Class II	1.4	Class II	1.3	B11	B11	B11	B11	B11	B11	B11	B11	B11	B11	B13	B14	B14	B15	B16
	Class III	2.0	Class III	1.6	B11	B11	B11	B11	B11	B11	B11	B11	B13	B13	B14	B15	B15	B16	B17
5	Class I	1.0	Class I	1.0	B11	B11	B11	B11	B11	B11	B11	B11	B13	B13	B15	B15	B16	B16	B17
	Class II	1.4	Class II	1.3	B11	B11	B11	B11	B11	B11	B13	B13	B13	B14	B16	B16	B16	B17	B17
	Class III	2.0	Class III	1.6	B13	B13	B13	B13	B13	B13	B13	B14	B15	B15	B16	B17	B17	B17	B18
7 1/2	Class I	1.0	Class I	1.0	B12	B12	B12	B12	B12	B12	B13	B13	B14	B15	B16	B16	B17	B17	B18
	Class II	1.4	Class II	1.3	B13	B13	B13	B13	B13	B13	B14	B15	B16	B16	B16	B17	B17	B18	B18
	Class III	2.0	Class III	1.6	B13	B13	B13	B13	B14	B13	B16	B16	B16	B16	B17	B17	B18	B18	B19
10	Class I	1.0	Class I	1.0	B13	B13	B13	B13	B13	B13	B14	B15	B16	B16	B16	B17	B17	B18	B18
	Class II	1.4	Class II	1.3	B13	B13	B13	B13	B14	B14	B16	B16	B16	B16	B17	B18	B18	B18	B19
	Class III	2.0	Class III	1.6	B14	B14	B14	B16	B16	B16	B16	B16	B17	B17	B17	B18	B19	B19	B19
15	Class I	1.0	Class I	1.0	B15	B15	B15	B15	B15	B16	B16	B16	B17	B17	B18	B18	B19	B19	B19
	Class II	1.4	Class II	1.3	B15	B15	B15	B16	B16	B16	B16	B17	B17	B18	B18	B19	B19	B19	B20
	Class III	2.0	Class III	1.6	B16	B16	B16	B16	B16	B17	B17	B17	B18	B18	B19	B19	B20	B20	B21
20	Class I	1.0	Class I	1.0	B16	B16	B15	B16	B16	B16	B16	B17	B17	B18	B18	B19	B19	B19	B20
	Class II	1.4	Class II	1.3	B16	B16	B16	B16	B17	B17	B17	B18	B18	B18	B19	B19	B20	B21	B21
	Class III	2.0	Class III	1.6	B17		B17	B17	B17	B18	B18	B18	B19	B19	B19	B20	B21	B21	B22
25	Class I	1.0	Class I	1.0	B16	B16	B16	B16	B16	B17	B17	B18	B18	B18	B19	B19	B20	B20	B21
	Class II	1.4	Class II	1.3	B17		B17	B17	B17	B18	B18	B18	B19	B19	B20	B20	B21	B21	B22
	Class III	2.0	Class III	1.6			B18	B18	B18	B18	B18	B19	B19	B20	B20	B21	B21	B22	
30	Class I	1.0	Class I	1.0	B17		B17	B17	B17	B18	B18	B18	B19	B19	B19	B20	B21	B21	B22
	Class II	1.4	Class II	1.3			B18	B18	B18	B18	B18	B19	B19	B20	B20	B21	B21	B22	
	Class III	2.0	Class III	1.6			B19	B19	B19	B19	B19	B19	B20	B20	B21	B21	B22		
40	Class I	1.0	Class I	1.0			B18	B18	B18	B18	B18	B19	B19	B20	B20	B21	B21		
	Class II	1.4	Class II	1.3			B19	B19	B19	B19	B19	B19	B20	B21	B21	B22			
	Class III	2.0	Class III	1.6			B20	B20	B20	B20	B20	B20	B21	B21	B22				
50	Class I	1.0	Class I	1.0			B19	B19	B19	B19	B19	B19	B20	B20	B21	B22			
	Class II	1.4	Class II	1.3			B20	B20	B20	B20	B20	B20	B21	B21	B22				
	Class III	2.0	Class III	1.6			B21	B21	B21	B21	B21	B21	B22	B22					

Specifications subject to change without prior notice.

Good Application Practices

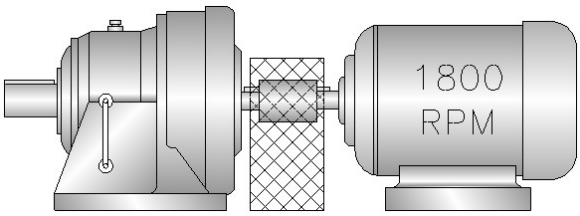
1). Follow Installation Instructions

A key pre-requisite for the long-lasting, trouble-free operation is to follow installation and lubrication instructions. There are individual sections in this catalog that cover these topics specifically. For installation on an inclination on declination plane, though there are no specific data on what the allowable angles are for each frame size, the following rule of thumb applies. Please refer to drawing on the right. Each oil lubricated DARALI® DRIVE is capable of being installed at an angle as long as the oil level reaches at least the bottom of the rolling elements. This ensures all torque transmitting components are lubricated during the operation.



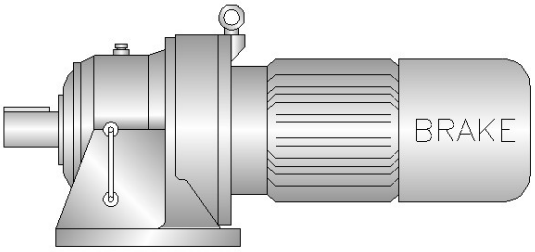
2). Motor RPM Not To Exceed 1800

Speed reducers and high-speed motors (i.e. 3600 rpm) are typically not compatible with each other. We recommend input speed to the DARALI® DRIVES not to exceed 1800 rpm. Some larger models (i.e. B23~B27, A91~A93) have input speed limit capped at 1200 rpm. If your application absolutely requires higher input speed than the recommended rpms above, please contact factory as we may have to implement special lubricating consideration to compensate for such unusual input speeds.



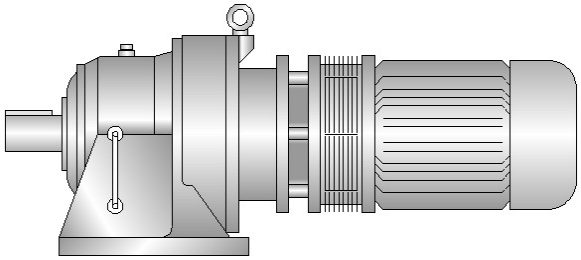
3). Consideration For Brake Load

In applications where brake is used on the input of speed reducer, if the torque rating of brake exceeds the motor torque rating, you should always use the torque rating of brake to size up the speed reducers. **For applications involving frequent start/stop, an additional service factor (i.e. S.F. = 2.0) will help enhancing the superb performance of DARALI® Cycloidal Reducers.**



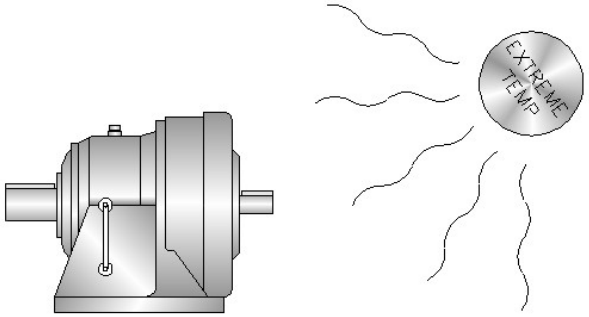
4). Clutch Applications

Similar to the applications involving the use of brakes, **you may want to consider an additional service factor (i.e. S.F. = 2.0) for the frequent start/stop of clutch.** This will help alleviating the effect of metal fatigue caused by high frequency start/stop of the application. Periodically check the mounting rigidity and the tightness of fasteners.



5). Extreme Temperature Applications

Extreme heat and cold could very well be the two worst enemies for any speed reducers. Special lubrication, good ventilation, and controlled ambient temperature would greatly help speed reducers to avoid troubles caused by extreme temperatures. Use high viscosity lubricant for high temperature applications. Use low viscosity lubricant for low temperature applications. In applications where speed reducers are close to the heat source and air are not well circulated, consider using a blower fan. Consider using a heat source or radiator for speed reducer operating under extreme cold temperature. For applications that experience both extremes of temperature, make sure to use appropriate lubricant that can handle both extremes of heat and cold.



Quick & Simple Selection Procedures

Determine AGMA Load Classification

Refer to page 11 for LOADING CLASSIFICATIONS. Based on U (Uniformly Loaded), M (Moderate Shock Load), or H (Heavy Shock Load), go to page 12. Find the corresponded hours-per-day operation, and determine the recommended service factor.

Calculate Design Torque
Design Torque = Load Torque x S.F.

Load torque can either be given or calculated. Refer to page 15~16 for a sizing example. A helpful formula to use is:

$$\text{Torque} = \frac{63025 \text{ x hp x efficiency}}{\text{output rpm}}$$

Determine Reduction Ratio

$$\text{Ratio} = \frac{\text{Input RPM}}{\text{Output RPM}}$$

Once you have calculated what the reduction ratio supposed to be, compare it to our standard ratios, and find the closest match. Standard single stage reduction ratios are: 6, 8, 11, 13, 15, 17, 21, 25, 29, 35, 43, 51, 59, 71, and 87. Any combination of two single stage ratios greater than 87 can be made into double stage reduction.

Determine Reducer Frame Size

Go to page 23 ~ page 40 for torque rating tables. Make sure to go to the table and column that corresponds to the correct ratio and input rpm. Locate the first frame size with the torque rating greater than or equal to your design torque.

Overhung Load Consideration

If a sprocket or sheave is connected to the output shaft, you need to consider Overhung Load (OHL). Go to page 41 ~ page 44. If the output shaft is connected to a coupling, proceed to the next step.

Construct Part Number

Go to page 9 ~ page 10 to construct part number. You need to decide the kind of input method as well as the type of mounting configuration. In addition, the direction of output shaft is especially important for vertical application as it may dictate the lubrication method and the sealed-bearing arrangement.

Call DARALI® DRIVES for Price and Availability

Contact factory or your nearest distributor for price and availability of DARALI® DRIVES.

EXAMPLE:

You are designing a heavy duty, uniformly fed assembly conveyor. This conveyor will operate 24 hours per day. The output shaft of speed reducer will be coupled to the conveyor. You have determined the torque requirement at the output shaft being 12,000 in-lbs, and the output speed being 59 rpm. Find appropriate DARALI® DRIVES frame size that suits the requirement.

1). Based on conditions given above, refer to LOADING CLASSIFICATIONS. The load nature designation is M which means moderate shock load. Refer to RECOMMENDED SERVICE FACTORS. Based on a 24 hours per day application,

S.F. = 1.35

2). Assuming input rpm = 1750,

$$\text{Ratio} = \frac{1750 \text{ rpm}}{59 \text{ rpm}} = 29.66$$

use 29:1 as the reduction ratio.

3). Since Load Torque is given already, multiply Load Torque by S.F. to obtain Design Torque.

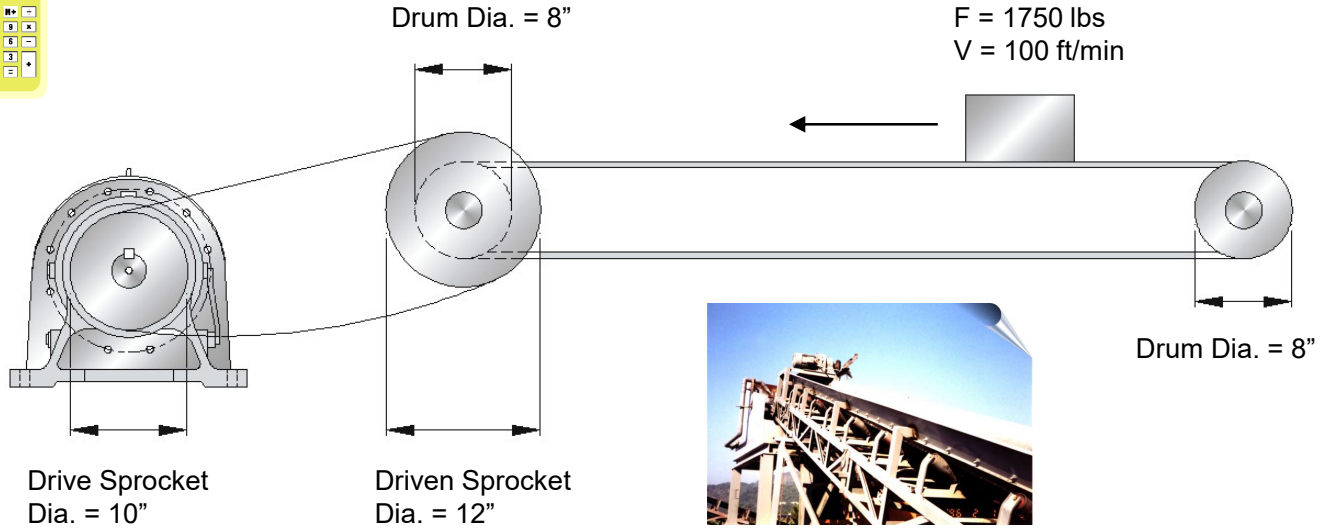
Design Torque = 12,000 in-lbs x 1.35 = 16,200 in-lbs

4). From the TORQUE RATING TABLE, we determine that B17 is the appropriate frame size (B16 torque rating at 1750 rpm input and 29:1 does not exceed 16,200 in-lbs, therefore was not chosen).

5). Since the output shaft is directly coupled to the conveyor, no OHL considerations are required.

** For a more detailed SIZING EXAMPLE, please refer to "Sizing Example".

Sizing Example



You are designing a conveyor driven by a gearmotor. The conveyor has a 1750 lbs force acting on it, and moves at the speed of 100 feet per minute. This conveyor will operate at 10 hours per day with moderate shock load. Please select the appropriate DARALI® DRIVES frame size and reduction ratio.

1). Find the output torque requirement at the output shaft of DARALI® DRIVE:

$Torque_{drum} = Torque_{driven\ sprocket} = Force \times Radius_{drum} = 1750\ lb \times (8\ inch / 2) = 7000\ inch\text{-}lbs$

$Torque_{output\ shaft} = Torque_{drive\ sprocket} = Torque_{driven\ sprocket} \times (Diam_{drive\ sprocket} / Diam_{driven\ sprocket})$

$Torque_{output\ shaft} = 7000\ inch\text{-}lb \times (10\ inch / 12\ inch) =$ **5833 inch-lbs**

2). Find the rpm at the output shaft of DARALI® DRIVE:

100 ft/min x 12 inch/ft = 1200 inch/min (speed of conveyor in inch/min).

Each time the drum turns 1 revolution, the conveyor moves (8 inch x 3.14) = 25.12 inch

How many rpm does the drum have to turn so the conveyor will move 1200 inch/min?

$RPM_{drum} = (1200\ inch/min) / (25.12\ inch/rev) = 47.77\ rpm$, which is also $RPM_{driven\ sprocket}$

Note: The driven sprocket and drum turn at the same RPM

$RPM_{drive\ sprocket} = RPM_{driven\ sprocket} \times (Diam_{driven\ sprocket} / Diam_{drive\ sprocket})$

$RPM_{drive\ sprocket} = 47.77\ rpm \times (12\ inch / 10\ inch) =$ **57.32 rpm**, which also equals to $RPM_{output\ shaft}$

3). Find the reduction ratio based on the 1750 rpm motor input and output shaft rpm:

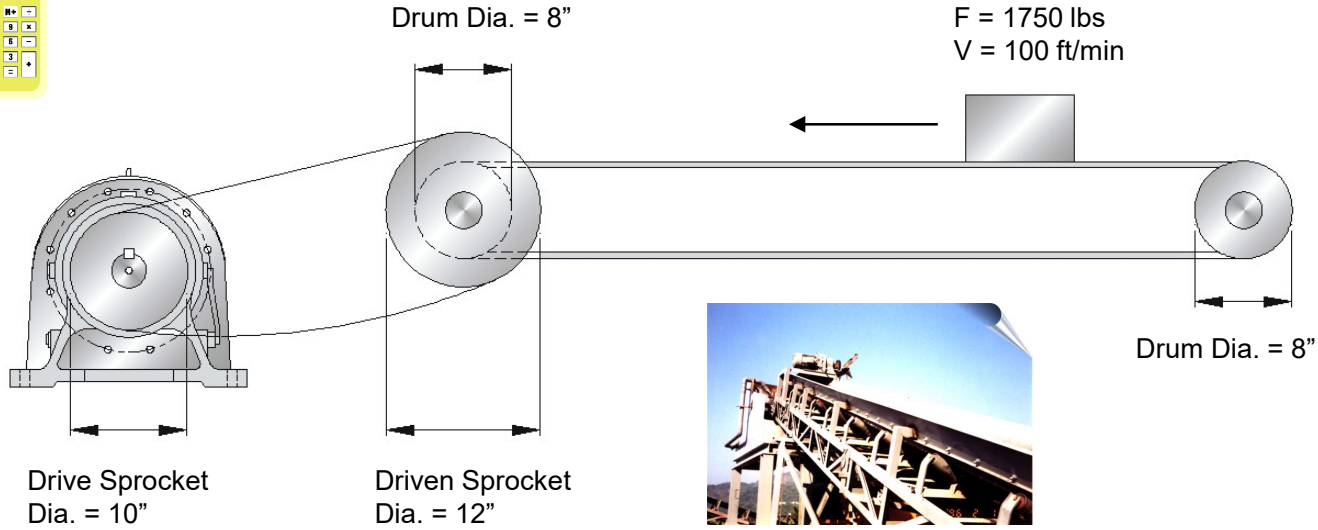
$Ratio = RPM_{motor} / RPM_{output\ shaft} = 1750\ rpm / 57.32\ rpm = 30.53$, chose **29:1**

Based on the calculated torque and output rpm requirement, we are now ready to determine the input hp of DARALI® DRIVE:

$Torque_{output\ shaft} = (63025 \times hp \times effic.) / RPM_{output\ shaft} = (63025 \times hp \times 0.93) / 57.32\ rpm = 5833\ inch\text{-}lbs$

Solve for hp = **5.70**

Sizing Example



... continue.

Based on a 10 hours per day operation with moderate shock load, the service factor required is 1.2

$HP_{design} = HP_{calculated}$ x S.F. = 5.70 x 1.2 = 6.84 hp (you would select a 7.5 hp motor).

Go to TORQUE RATING table and look under the torque rating table of 29:1. Find the first frame size with the input horsepower that exceeds 6.84 hp. You should find B13 with input hp rating of 7.09, and output torque capability of 6860 in-lbs.

Since the output shaft of DARALI® DRIVE in this application is connected to a sprocket, you must consider the overhung load capability. Please refer to OVERHUNG LOAD.

Assume:
Connection Type = Chain (Fc = 1), Load Position = Middle of Output Shaft (Fl=1)
Moderate Shock Load (Fs = 1.2)

OHL = (126,000 x hp x Fl x Fc x Fs) / ($Diam_{pitch}$ x rpm)
= (126,000 x 5.70 x 1 x 1 x 1.2) / (10 inch x 57.32 rpm)
= 1504 lbs

Use this calculated OHL, and compare it to the permissible output shaft overhung load on page 42 with output rpm=57.32, you will find that 1504 lbs < 2270 lbs (rpm = 50) and 1504 lbs < 2140 lbs (rpm = 60). Your selection is OK, and you are now ready to construct the part number.

FRAME SIZE = ***B13***

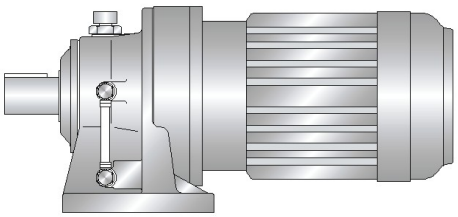
RATIO = 29 ***(29:1)***

INPUT = Integral Gearmotor 7.5 hp ***(8M)***

MOUNTING = Foot Mount ***(H)***

OUTPUT DIRECTION = Horizontal ***(H)***

PART NUMBER:
B13-29:1-8MHH



Call factory or your nearest Authorized DARALI® Distributor for Price & Availability

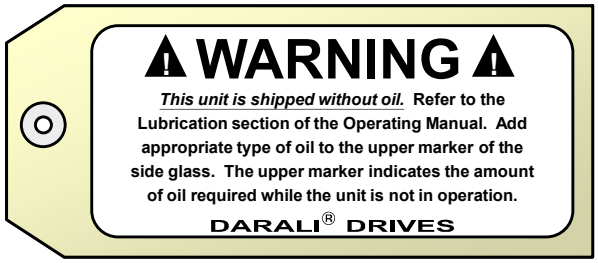
DETERMINE THE LUBRICATION METHOD OF THE UNIT

- GREASE LUBRICATING UNITS

All grease-lubricating units are identified with the tag shown on the right. These units are typically of frame sizes B07~B12 as well as all the vertical application, V-Flange, and F-Face mounting units. Double reduction units may be either grease or oil lubricated depending on size, ratio, and/or application. Please refer to the lubrication section of this catalog for further information.

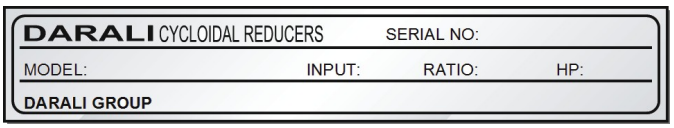
- OIL LUBRICATING UNITS

All oil-lubricating units are identified with the tag shown on the right. These units are typically of frame sizes B13~B27 with foot mount for horizontal applications. Double reduction units may be either grease or oil lubricated depending on size, ratio, and/or application. You must add appropriate amount and type of oil before attempting operation. Insufficient or lack of lubrication will contribute to premature failure. Please refer to the lubrication section of this catalog for further information.



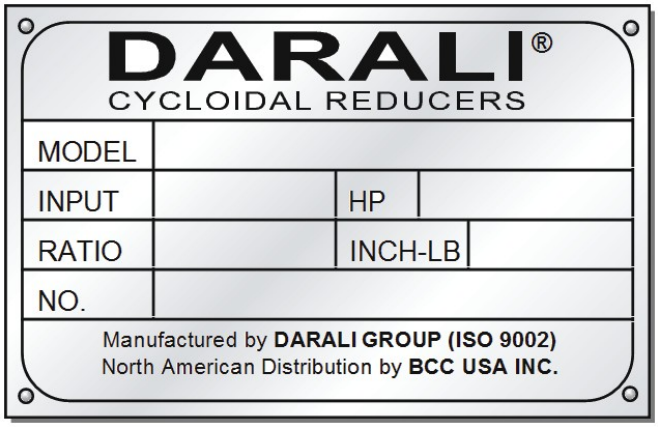
- NAME PLATE

Name plate for frame sizes B07 ~ B09



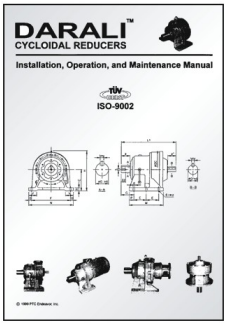
- For speed reducers, the hp and in-lb value on the name plate reflect the data on the torque rating table of corresponded frame size and ratio at 1750 rpm input.
- For integral gearmotors, the hp value on the name plate represents horse power of the motor. The in-lb value on the name plate is the amount of the torque that the speed reducer can transmit when the motor is operating at full load.

Name plate for frame sizes B10 ~ B27

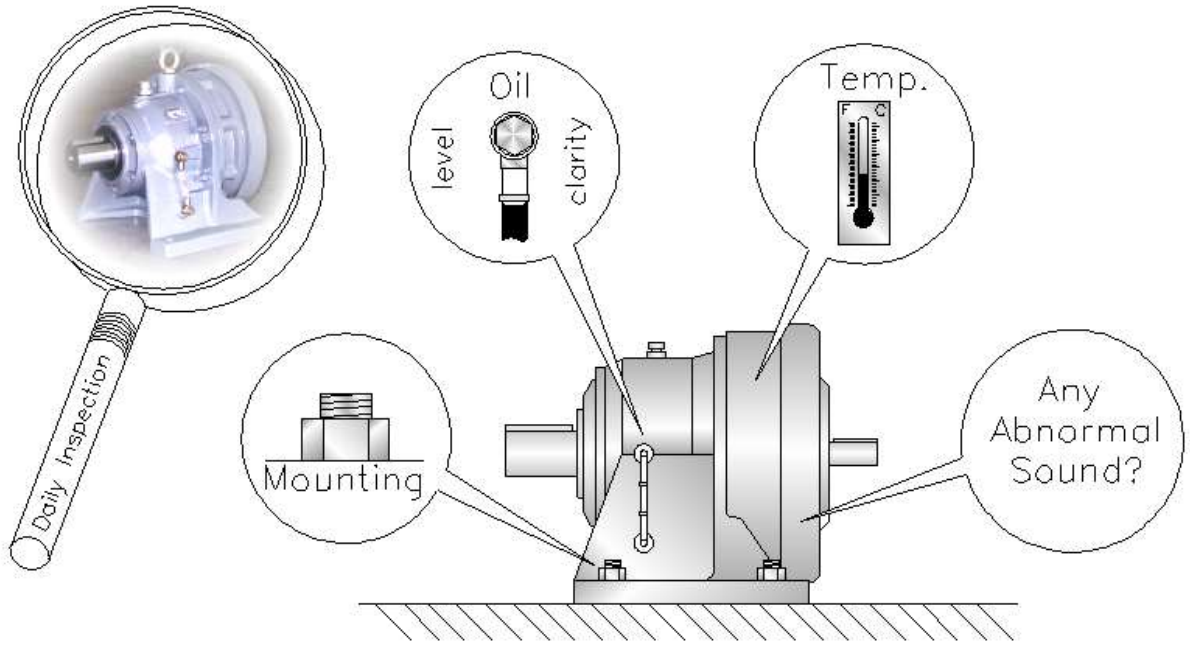


- READ INSTALLATION & OPERATING INSTRUCTIONS

- **Enjoy the superb performance of DARALI® DRIVES !!**
- **Perform the recommended maintenance.**
- **Think DARALI® Drives for your next application.**



Daily Inspection



▸ MOUNTING FASTENERS

Inspect mounting bolts of the DARALI® Cycloidal Reducer to your equipment. Please make sure the foot or flange of speed reducer is tightened down rigidly to the mounting base. Tighten loose bolts as necessary. If bolts are loose frequently, reinforce the mounting structure and consider using double nuts on each bolt. Use bolts of ISO grade 8.8 minimum when mounting the flange or feet of the DARALI® Cycloidal Reducer to your equipment.

▸ LUBRICATING OIL

Check lubricating oil level. The oil level must be filled to the upper marker of side glass when the unit is not in operation. The oil level must be at least above the lower mark when the unit is in operation. Please be aware that the oil-lubricated double reduction models require extra oil to ensure the first reduction stage receives sufficient lubrication. Please refer to the lubrication section of this catalog or installation manual. Changing the lubricating oil frequently will further enhance the service life of DARALI® Cycloidal Reducers. Refer to the lubrication section of this catalog for further information.

▸ TEMPERATURE RISE

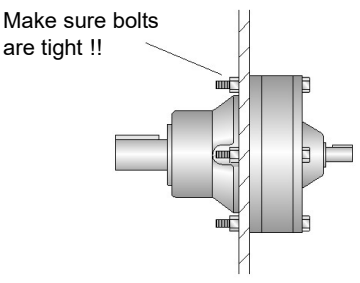
Any temperature rise up to 105 °F (58 °C) above ambient temperature on the surface of the ring gear housing is considered normal. Check for any rapid temperature rise from a stable operating condition. If such a phenomenon occur, add the recommended oil or grease (refer to the lubrication section). If the rapid temperature rise still persists, stop operation and contact factory.

▸ ABNORMAL SOUND

If you start hearing sudden abnormal sound generated from inside the unit, stop operation and inspect the unit. Check mounting bolts and the installation of sheaves and sprockets. Also check the tightness of fan guard and fan installation. Make sure there are sufficient lubrication inside the reducer. Please observe, lower reduction ratios of cycloidal cycloidal reducers are subject to higher operating sound level due to higher internal speed. This phenomenon is considered normal.

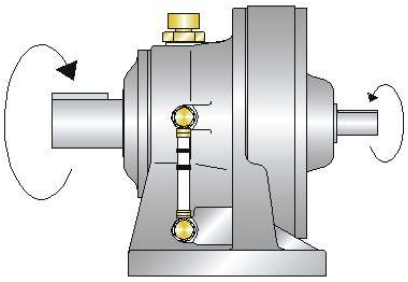
▸ MOUNTING PRECAUTION FOR THE F-TYPE UNITS

Unlike the H and V type units that have one set of fasteners to hold speed reducer together, and another set of fasteners to install the speed reducer onto the mounting surface, the F type units have only one set of fasteners that performs both functions. In this situation, loose bolts could result not only in insecure installation, but also the possible separation of speed reducer. Check the tightness of fasteners daily. This precautionary measure is especially important for applications involving frequent start/stop and reversing as well as application using brakes or clutches with the F-type mounting. We can provide you an extra set of nuts and washers so the original set can be used to hold speed reducer together, and the extra set can be used to mount the unit.



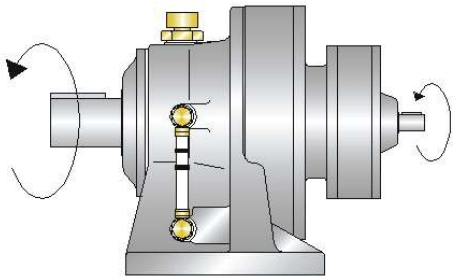
NOTE !

Single Reduction, 6:1 ~ 87:1
Output Direction = **Opposite** of Input Direction



CW CCW

Double Reduction, 102:1 ~ 7569:1
Output Direction = Input Direction



CCW CCW

- PROPER LUBRICATION

Treat the DARALI® Cycloidal Reducer as your most precious automobile! The quality of lubricating oil has a direct influence on the service life of any speed reducer. Use appropriate type and amount of lubrication. Depending on ambient temperature, use high viscosity oil for high ambient temperature environment (i.e. summer), and use low viscosity oil for low ambient temperature environment (i.e. winter).

- RIGID INSTALLATION

Use bolts of ISO grade 8.8 minimum when mounting the foot or flange of the DARALI® Cycloidal Reducer to your equipment. Please make sure the foot or flange of speed reducer is tightened down rigidly to the mounting base. Loosened mounting bolts may cause the vibration of speed reducer which could eventually contribute to foot breakage. **Observe the mounting condition frequently**. If necessary, use higher grade fasteners and double nuts on each bolt.

- CORRECT INSTALLATION OF SPROCKET, CHAIN, SHEAVE, AND BELT

Proper installation of sprocket and chain can minimize overhung load on input and output shafts. **Apply anti-seize compound on the shaft before installing sheave and sprocket.** Sprockets and sheaves should be installed as close to the oil seal surface as possible. Chains should be slack on the non-pulling side. In addition, align sheaves and pulleys correctly. Practicing the above installation instructions can help decreasing the stress on shaft bearings. **Overtightening of chain or belt increases the overhung load on the speed reducer shaft dramatically.**

- ACCURATE ALIGNMENT OF COUPLING

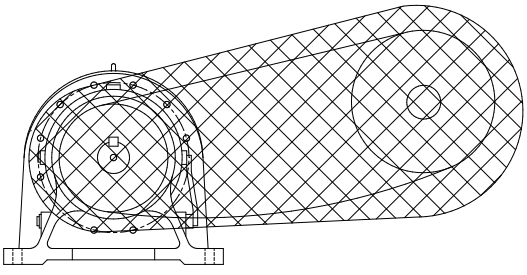
Make sure to align the shaft accurately when connecting the speed reducer to motor and/or driven machine. **Apply anti-seize compound on the shaft before installing coupling.**

- ALWAYS USE PROTECTION GUARDS FOR ROTATING SHAFTS

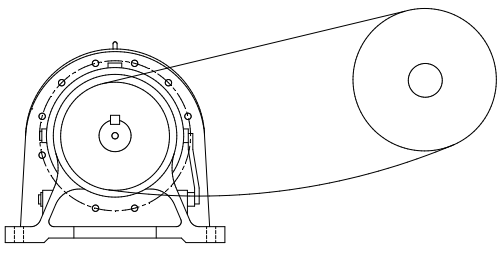
Protection guards for rotating shafts must be installed prior to use and thereafter must be used at all time. Install and operate DARALI® DRIVE in compliance with applicable local and national safety codes.

⚠ WARNING

▸ **SAFE !**

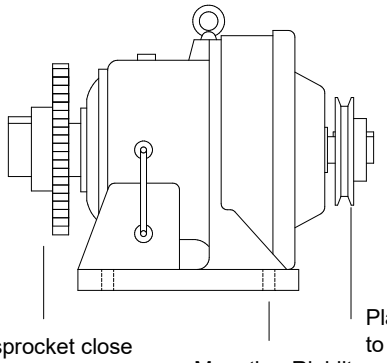


▸ **UNSAFE !**



Installation

GOOD !

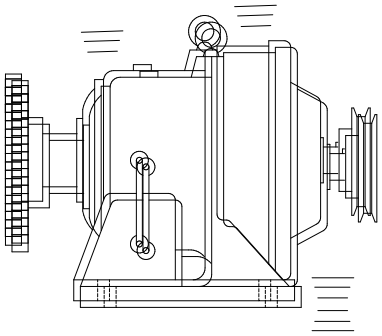


Place sprocket close to the collar surface.

Mounting Rigidity

Place sheave close to the collar surface.

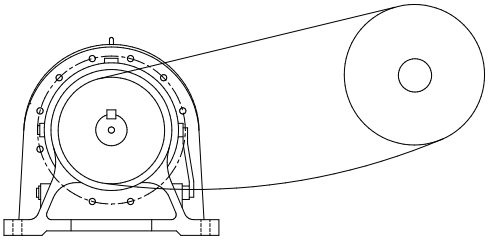
BAD !



Incorrect installation of sheave and sprocket contributes to excessive overhung load.

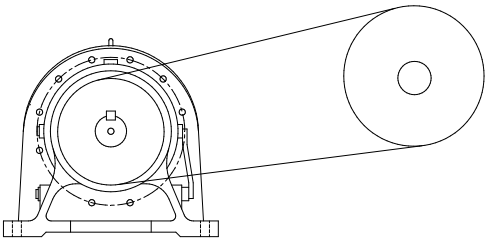
Loosened fasteners cause speed reducer to vibrate.

GOOD !



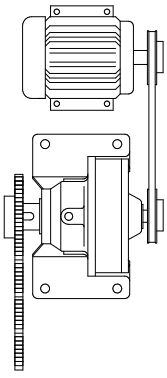
The non-pulling side of chain should remain slack.

BAD !



Overtightening chain on both strands can cause excessive overhung load on output shaft bearing.

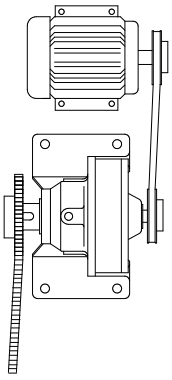
GOOD !



Alignment between two sprockets needs to be square and parallel.

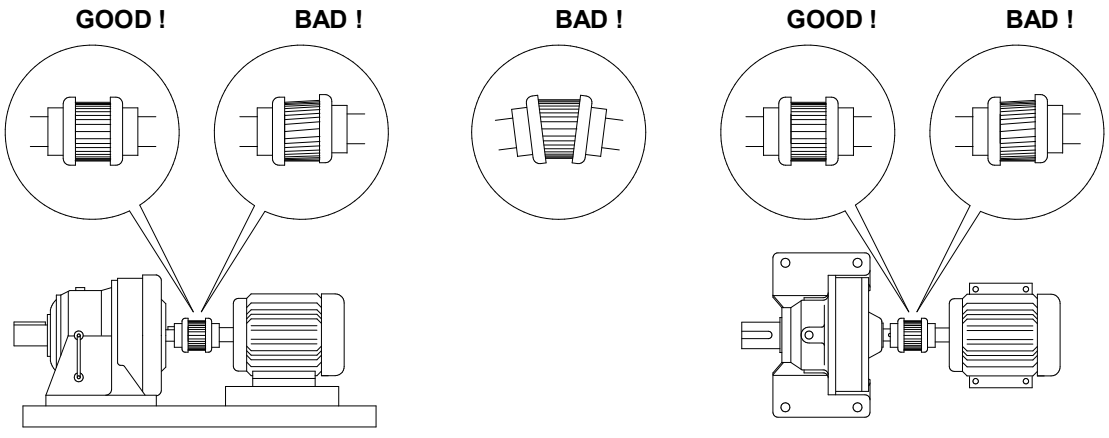
Alignment between two sheaves needs to be square and parallel.

BAD !



Alignment between two sprockets are not square and parallel.

Alignment between two sheaves are not square and parallel.



▸ OIL LUBRICATION

Lubrication oil on most models is drained before shipment. **Please check to make sure the appropriate amount and type of oil supply has been added before attempting operation.**

Use low viscosity oil during winter or in low ambient temperature. Use high viscosity oil during summer or in high ambient temperature. Use **Mild EP Oil.**

Please use lubrication oils recommended on the right. Do not mix different brands of oils.

AMBIENT TEMPERATURE	ISO VISCOSITY GRADE	AGMA VISCOSITY GRADE	SAE GRADE GEAR OIL
5°F ~ 32°F (-15°C ~ 0°C)	68	2EP	80W
32°F ~ 95°F (0°C ~ 35°C)	100 ~ 150	3EP 4EP	85W 90
95°F ~ 122°F (35°C ~ 50°C)	220 ~ 460	5EP 7EP	90 140

Approximate Volume of Oil Filling - Horizontal Configuration

Frame Size	B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	B24	B25	B26	B27
Volume in Gallon	0.2	0.2	0.2	0.4	0.5	0.6	1.1	1.5	2.3	2.6	4.0	4.2	5.6	7.7	14.8
Volume in Liter	0.7	0.7	0.7	1.4	1.9	2.5	4.0	5.5	8.5	9.8	15	16	21	28	56

Frame Size	B1611	B1711	B1813	B1911	B1913	B2011	B2013	B2113	B2116	B2213	B2217	B2316	B2318	B2416	B2418	B2517	B2519	B2619	B2719
Volume in Gallon	0.4	0.6	0.9	1.6	1.6	1.6	1.6	2.7	2.7	2.9	2.9	4.5	4.5	4.8	4.8	6.1	6.1	8.5	18.5
Volume in Liter	1.5	2.4	3.5	5.8	6.0	6.0	6.0	10	10	11	11	17	17	18	18	23	23	32	70

▸ LUBRICATION FOR DOUBLE REDUCTION UNIT

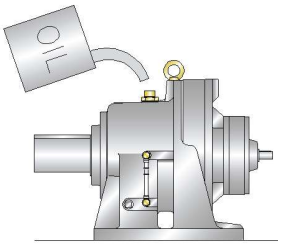
- The following double reduction frame sizes are **grease lubricated on the first reduction stage, and oil lubricated on the second reduction stage:** *B1310, B1409, B1611, B1711, B1911, B2011.*

The first stage of above frame sizes are always packed with grease from the factory. Unless otherwise specified, the second stage of above frame sizes are empty without oil. You must add appropriate type and amount of oil before attempting operation.

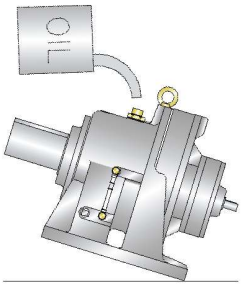
- The following double reduction frame sizes are **oil lubricated on both first and second reduction stage:** *B1813, B1913, B2013, B2113, B2116, B2213, B2217, B2316, B2318, B2416, B2418, B2517, B2519, B2619, B2719.*

Unless otherwise specified, both reduction stages of above frame sizes are shipped empty without oil. You must add appropriate type and amount of oil before attempting operation. In order for the unit to run properly, you must have sufficient lubrication in both stages. See below for the oil filling recommendation. Insufficient oil amount will cause premature failure.

NOTE !

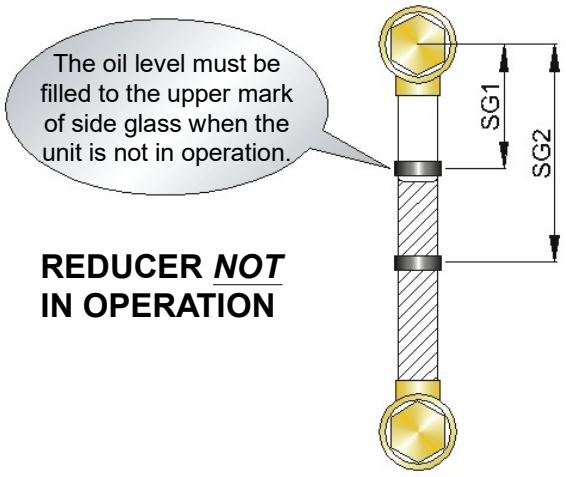


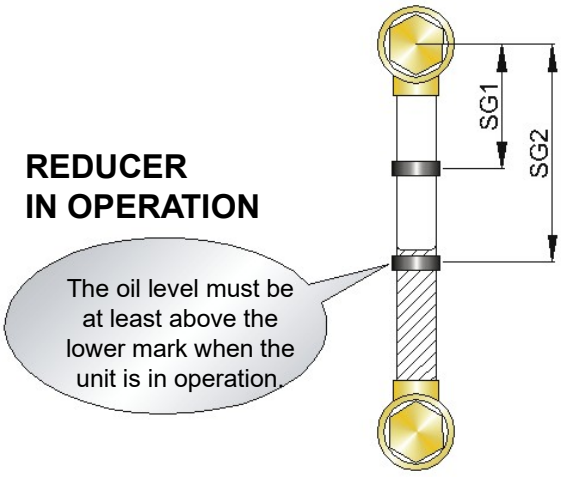
Oil flows **SLOWER** toward the first reduction stage



Raise the output shaft up helps oil reaching the first reduction stage **EASIER** and **QUICKER**

▸ SIGHT GLASS MARKERS





▸ SIDE GLASS MARKERS DIMENSIONS

Frame Size	Dimension SG1 (mm)	Dimension SG1 (inch)	Dimension SG2 (mm)	Dimension SG2 (inch)
B13	25	0.98	50	1.97
B14	25	0.98	50	1.97
B15	25	0.98	50	1.97
B16	35	1.38	45	1.77
B1611	30	1.18	45	1.78
B17	40	1.57	60	2.36
B1711	30	1.18	45	1.77
B18	50	1.97	75	2.95
B1813	35	1.38	55	2.17
B19	50	1.97	85	3.35
B1911	30	1.18	45	1.77
B1913	35	1.38	50	1.97
B20	55	2.17	70	2.76
B2011	30	1.18	50	1.97
B2013	30	1.18	55	2.17
B21	50	1.97	75	2.95
B2113	30	1.18	50	1.97

Frame Size	Dimension SG1 (mm)	Dimension SG1 (inch)	Dimension SG2 (mm)	Dimension SG2 (inch)
B2116	40	1.57	70	2.76
B22	55	2.17	85	3.35
B2213	30	1.18	50	1.97
B2217	45	1.77	85	3.35
B23	65	2.56	90	3.54
B2316	40	1.57	70	2.76
B2318	50	1.97	85	3.35
B24	70	2.76	95	3.74
B2416	40	1.57	70	2.76
B2418	50	1.97	85	3.35
B25	80	3.15	105	4.13
B2517	50	1.97	85	3.35
B2519	55	2.17	80	3.15
B26	80	3.15	105	4.13
B2619	60	2.36	85	3.35
B27	85	3.35	115	4.53
B2719	70	2.76	110	4.33

** Comparing single reduction and double reduction models of the same mounting frame size (i.e. B18 vs. B1813), the upper side glass markers of double reduction models are always located higher than the upper side glass markers of single reduction models.

▸ OIL LUBRICATION REPLENISHMENT

- Under all operating conditions, the DARALI® Cycloidal Reducer needs the initial oil change after 2 months of service.
- Based on an 8 hours per day application, subsequent oil change shall be performed every 6 months. For an 8 ~ 24 hours per day application, perform subsequent oil change every 2500 hours. A more frequent oil change will help achieving much longer service life.
- If the unit is running under heavy operating condition or in a high temperature, high humidity, or corrosive environment, the lubricants have to be changed more frequently. (i.e. every 1 ~ 3 months)

Oil Change Interval

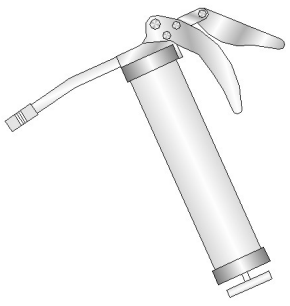
OPERATING CONDITION	RECOMMENDED OIL CHANGE INTERVAL
Initial Oil Change	Two Months
Up to 8 Hours / Day	Every 6 Months
8 ~ 24 Hours / Day	Every 2500 Hours
High Temperature	Every 1 ~ 3 Months
High Humidity	Every 1 ~ 3 Months

▸ GREASE LUBRICATION

- Frame sizes B07~B12 are filled with appropriate amount of grease before leaving factory. Please do not refill upon receiving of the DARALI® Cycloidal Reducers.
- Frame sizes B07~B12, filled with long duration grease as mentioned above, require no lubrication replenishment for 20,000 hours or about 4~5 years of service.
- Depending on operating conditions, users may re-lubricate grease packed units as needed.
- If the unit experiences a sudden temperature rise, supply grease immediately.

Recommended Grease

AMBIENT TEMPERATURE	Single Reduction (6:1 ~ 87:1)		Double Reduction (102:1 ~ 7569:1)	
	Shell Oil	Mobile Oil	Shell Oil	Mobile Oil
5 °F (-15° C) to 122 °F (50° C)	Darina EP Grease No. 2	Mobilux EP2	Darina EP Grease No. 2	Mobilux EP2



Torque Rating - Single Reduction (6:1 ~ 87:1)

6 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	292				243				194				145			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B08	0.54	108	0.40	1.24	0.56	135	0.42	1.55	0.54	161	0.40	1.85	0.43	173	0.32	2.00
B09	1.45	289	1.08	3.33	1.38	331	1.03	3.81	1.24	372	0.93	4.29	0.96	386	0.72	4.45
B10	3.01	601	2.25	6.92	2.72	651	2.03	7.49	2.33	700	1.74	8.06	1.92	772	1.43	8.89
B11	6.80	1360	5.07	15.7	6.48	1560	4.84	17.9	5.82	1750	4.34	20.2	4.76	1920	3.55	22.1
B12	7.50	1500	5.60	17.3	7.50	1800	5.60	20.7	7.50	2250	5.60	25.9	6.45	2600	4.81	30.0
B13	13.5	2700	10.1	31.1	12.9	3100	9.63	35.7	11.6	3500	8.65	40.3	9.51	3830	7.09	44.1
B14	16.8	3370	12.5	38.8	15.5	3730	11.6	43.0	13.6	4100	10.1	47.2	11.2	4490	8.32	51.7
B15	20.1	4030	15.0	46.4	18.2	4340	13.5	50.3	15.6	4700	11.6	54.1	12.8	5150	9.55	59.3
B16	27.2	5430	20.3	62.6	25.4	6100	19.0	70.2	22.5	6760	16.8	77.9	18.4	7440	13.7	85.7
B17	38.7	7760	28.9	89.4	36.5	8770	27.2	101	32.5	9770	24.2	113	26.6	10700	19.8	123

8 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	219				183				146				109			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B08	0.54	144	0.40	1.66	0.56	180	0.42	2.07	0.54	215	0.40	2.48	0.47	252	0.35	2.90
B09	1.45	386	1.08	4.45	1.38	441	1.03	5.08	1.24	496	0.93	5.71	0.96	515	0.72	5.93
B10	3.01	801	2.25	9.23	2.72	866	2.03	10.0	2.33	930	1.74	10.7	1.92	1030	1.43	11.9
B11	6.80	1810	5.07	20.9	6.48	2070	4.84	23.8	5.82	2330	4.34	26.8	4.76	2560	3.55	29.5
B12	7.50	2000	5.60	23.0	7.50	2400	5.60	27.6	7.50	3000	5.60	34.6	6.45	3450	4.81	39.7
B13	13.5	3590	10.1	41.4	12.9	4130	9.63	47.5	11.6	4660	8.65	53.7	9.51	5110	7.09	58.9
B14	16.8	4480	12.5	51.6	15.5	4970	11.6	57.2	13.6	5460	10.1	62.8	11.2	5990	8.32	68.9
B15	20.1	5370	15.0	61.9	18.2	5810	13.5	66.9	15.6	6250	11.6	72.0	12.8	6860	9.55	79.0
B16	26.4	7030	19.7	81.0	24.5	7800	18.3	89.9	21.5	8580	16.0	98.8	17.9	9600	13.4	111

11 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	159				133				106				79.1			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B07	0.38	139	0.28	1.62	0.34	150	0.25	1.72	0.29	158	0.22	1.82	0.24	177	0.18	2.04
B08	0.54	198	0.40	2.28	0.56	247	0.42	2.85	0.54	296	0.40	3.41	0.47	346	0.35	3.99
B09	1.45	532	1.08	6.13	1.38	608	1.03	7.00	1.24	683	0.93	7.87	0.96	708	0.72	8.16
B10	3.01	1100	2.25	12.7	2.72	1190	2.03	13.7	2.33	1280	1.74	14.7	1.92	1420	1.43	16.4
B11	6.80	2490	5.07	28.7	6.48	2850	4.84	32.8	5.82	3210	4.34	37.0	4.76	3510	3.55	40.4
B12	7.50	2750	5.60	31.7	6.97	3060	5.20	35.3	5.85	3220	4.36	37.1	4.78	3520	3.57	40.6
B13	13.5	4950	10.1	57.0	12.8	5610	9.53	64.6	11.4	6270	8.50	72.2	9.30	6860	6.94	79.0
B14	16.8	6170	12.5	71.1	15.5	6800	11.5	78.3	13.5	7430	10.1	85.6	10.7	7930	8.01	91.4
B15	20.1	7390	15.0	85.1	18.2	7990	13.5	92.0	15.6	8590	11.6	99.0	12.8	9430	9.55	109
B16	26.4	9680	19.7	112	22.2	9740	16.5	112	17.8	9790	13.3	113	14.6	10760	10.9	124
B17	38.7	14200	28.9	164	35.9	15800	26.8	182	31.5	17400	23.5	200	25.8	19000	19.2	219
B18	45.1	16500	33.6	190	47.0	20650	35.1	238	45.0	24800	33.6	286	36.9	27300	27.5	314
B19	59.0	21700	44.0	250	58.5	25750	43.6	297	54.1	29800	40.4	343	44.2	32700	33.0	377
B20	79.1	29000	59.0	334	78.0	34300	58.2	395	71.8	39600	53.6	456	60.6	44500	45.2	510
B21	96.7	35500	72.1	409	98.1	43200	73.2	498	92.2	50900	68.8	586	78.4	57900	58.5	667
B22	132	48400	98.5	558	131	57550	97.6	663	121	66700	90.3	768	103	75900	76.8	874
B23									132	72700	98.5	838	130	96800	97.0	1115
B24									160	88000	119	1014	159	117000	119	1348
B25									193	106000	144	1221	193	142000	144	1647
B26									232	128000	173	1475	232	171000	173	1970
A90	68.3	25000	51.0	281	69.7	30600	52.0	343	65.8	36200	49.1	406	53.8	39700	40.1	442
A91									96.2	53000	71.8	593	86.8	64000	64.8	714
A92									168	92500	125	1030	168	124000	125	1380

All cycloidal reduction ratios are EXACT.
Though not listed in this catalog, 9:1 and 23:1 for frame sizes B09~B16 are also available from factory.
We can design and manufacture other non-standard integral ratios for your large volume requirement.

Torque Rating - Single Reduction (6:1 ~ 87:1)

13 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	135				112				89.6				66.9			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B07	0.38	165	0.28	1.90	0.34	177	0.25	2.03	0.29	188	0.22	2.17	0.23	200	0.17	2.30
B08	0.54	233	0.40	2.68	0.56	291	0.42	3.35	0.54	349	0.40	4.02	0.47	409	0.35	4.71
B09	1.45	626	1.08	7.21	1.38	717	1.03	8.25	1.24	807	0.93	9.30	0.96	836	0.72	9.6
B10	3.01	1300	2.25	15.0	2.72	1410	2.03	16.2	2.33	1520	1.74	17.5	1.92	1670	1.43	19.2
B11	6.80	2950	5.07	34.0	6.37	3320	4.75	38.2	5.64	3680	4.21	42.4	4.61	4030	3.44	46.4
B12	7.50	3250	5.60	37.4	6.89	3580	5.14	41.2	5.85	3810	4.36	43.9	4.78	4170	3.57	48.0
B13	13.5	5870	10.1	67.6	12.4	6440	9.25	74.2	10.8	7010	8.06	80.8	8.79	7670	6.56	88.4
B14	14.6	6350	10.9	73.2	13.2	6850	9.82	78.9	11.3	7340	8.43	84.6	9.21	8040	6.87	92.6
B15	15.7	6830	11.7	78.7	13.9	7250	10.4	83.5	11.8	7670	8.80	88.4	9.63	8400	7.18	96.8
B16	26.4	11400	19.7	131	21.3	11050	15.9	127	16.4	10700	12.2	123	13.4	11700	10.0	135
B17	38.7	16800	28.9	194	35.8	18600	26.7	214	31.3	20400	23.3	235	25.6	22300	19.1	257
B18	45.0	19500	33.6	225	45.7	23750	34.1	274	43.0	28000	32.1	323	35.2	30700	26.3	354
B19	59.0	25600	44.0	295	57.8	30100	43.1	347	53.0	34600	39.5	399	43.4	37800	32.4	435
B20	79.1	34300	59.0	395	77.5	40280	57.8	464	71.1	46200	53.0	532	59.3	51400	44.2	592
B21	96.7	41900	72.1	483	97.0	50380	72.4	580	90.5	58800	67.5	677	75.8	65800	56.5	758
B22	132	57200	98.5	659	130	67430	96.9	777	120	77700	89.1	895	98.2	84900	73.3	978

15 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	117				97.3				77.7				58.0			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B07	0.38	190	0.28	2.19	0.34	204	0.25	2.35	0.29	217	0.22	2.50	0.22	221	0.16	2.55
B08	0.54	269	0.40	3.10	0.56	336	0.42	3.87	0.54	403	0.40	4.64	0.43	434	0.32	5.00
B09	1.40	698	1.04	8.04	1.37	792	1.02	9.12	1.18	886	0.88	10.2	0.96	870	0.72	10.0
B10	3.01	1500	2.25	17.3	2.72	1630	2.03	18.8	2.33	1750	1.74	20.2	1.78	1790	1.33	20.6
B11	6.80	3400	5.07	39.2	6.41	3840	4.78	44.2	5.70	4280	4.25	49.3	4.66	4690	3.48	54.0
B12	7.50	3750	5.60	43.2	6.91	4150	5.16	47.8	5.85	4400	4.36	50.7	4.78	4800	3.57	55.3
B13	11.9	5970	8.88	68.8	10.6	6340	7.87	73.0	8.92	6700	6.65	77.2	7.29	7340	5.44	84.6
B14	13.5	6780	10.1	78.1	12.5	7490	9.29	86.3	10.9	8190	8.13	94.3	8.91	8970	6.65	103
B15	15.6	7820	11.6	90.1	13.8	8300	10.3	95.6	11.7	8780	8.73	101	9.48	9550	7.07	110
B16	25.1	12500	18.7	144	20.7	12400	15.5	143	16.4	12300	12.2	142	13.4	13500	10.0	156
B17	35.5	17800	26.5	205	31.4	18850	23.4	217	26.5	19900	19.8	229	21.7	21800	16.2	251
B18	45.0	22500	33.6	259	41.3	24750	30.8	285	35.9	27000	26.8	311	29.4	29600	21.9	341
B19	59.0	29500	44.0	340	57.8	34700	43.1	400	53.0	39900	39.5	460	43.4	43700	32.4	503
B20	79.1	39600	59.0	456	77.1	46250	57.5	533	70.3	52900	52.4	609	57.9	58300	43.2	672
B21	96.7	48400	72.1	558	95.9	57550	71.6	663	88.7	66700	66.2	768	73.2	73700	54.6	849
B22	132	66000	98.5	760	129	77300	96.2	890	118	88600	88.0	1021	93.4	93900	69.7	1082
B23									132	99100	98.5	1142	120	121000	89.5	1394
B24									160	120000	119	1382	150	151000	112	1740
B25									193	145000	144	1670	188	189000	140	2177
B26									232	174000	173	2004	232	233000	173	2684

17 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	103				85.9				68.5				51.2			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B07	0.38	217	0.28	2.50	0.32	217	0.24	2.50	0.26	217	0.19	2.50	0.19	217	0.14	2.50
B08	0.54	306	0.40	3.53	0.54	370	0.41	4.26	0.51	434	0.38	5.00	0.38	434	0.28	5.00
B09	1.40	792	1.04	9.12	1.37	831	1.02	9.6	1.17	870	0.87	10.0	0.94	870	0.70	10.0
B10	2.65	1500	1.98	17.3	2.42	1650	1.81	19.0	2.10	1790	1.57	20.6	1.57	1790	1.17	20.6
B11	6.80	3860	5.07	44.5	6.26	4260	4.67	49.1	5.46	4660	4.07	53.7	4.47	5100	3.33	58.8
B12	7.50	4250	5.60	49.0	6.83	4640	5.10	53.5	5.85	4980	4.36	57.4	4.56	5200	3.40	59.9
B13	11.0	6240	8.21	71.9	9.75	6630	7.27	76.4	8.23	7010	6.14	81	6.73	7680	5.02	88.5
B14	13.5	7680	10.1	88.5	12.3	8380	9.20	96.5	10.7	9080	7.98	105	8.37	9550	6.24	110
B15	14.2	8080	10.6	93.1	14.4	9790	10.7	113	13.5	11500	10.1	132	10.7	12200	7.97	141
B16	21.5	12200	16.0	141	19.2	13050	14.3	150	16.3	13900	12.2	160	13.0	14800	9.70	170

Torque Rating - Single Reduction (6:1 ~ 87:1)

17 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	103				85.9				68.5				51.2			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B17	29.5	16700	22.0	192	26.4	18000	19.7	207	22.6	19200	16.9	221	18.4	21000	13.7	242
B18	45.0	25600	33.6	295	40.6	27700	30.3	319	34.9	29800	26.0	343	28.6	32600	21.3	376
B19	59.0	33500	44.0	386	57.8	39400	43.1	453	53.0	45200	39.5	521	43.4	49500	32.4	570
B20	79.6	45150	59.4	520	73.7	50100	55.0	577	64.6	55000	48.2	634	53.0	60400	39.5	696
B21	94.7	53700	74.6	653	94.4	64200	70.5	739	84.1	71700	62.8	825	68.5	78100	51.1	900
B22	127	71800	94.5	827	122.9	83600	91.7	962	111.9	95300	83.5	1098	91.2	104000	68.0	1198
A90	68.0	38500	50.7	432	67.2	45600	50.1	511	62.0	52700	46.3	591	57.6	65600	43.0	731
A91									96.2	81800	71.8	942	85.6	97500	63.9	1123
A92									168	143000	125	1647	156	178000	116	2051
A93									300	255000	224	2938	281	320000	210	3686

21 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	83.3				69.5				55.5				41.4			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B07	0.31	217	0.23	2.50	0.26	217	0.19	2.50	0.21	217	0.16	2.50	0.16	217	0.12	2.50
B08	0.54	378	0.40	4.35	0.48	406	0.36	4.68	0.41	432	0.31	4.98	0.31	434	0.23	5.00
B09	1.26	672	0.94	7.74	1.26	730	0.94	8.41	1.02	788	0.76	9.08	0.77	760	0.57	8.76
B10	2.60	1820	1.94	21.0	2.15	1810	1.60	20.9	1.70	1790	1.27	20.6	1.32	1860	0.98	21.4
B11	5.17	3620	3.86	41.7	5.08	4270	3.79	49.2	4.67	4910	3.48	56.6	3.70	5210	2.76	60.0
B12	6.22	4360	4.64	50.2	5.89	4940	4.39	56.9	5.26	5530	3.92	63.7	4.16	5860	3.10	67.5
B13	9.40	6580	7.01	75.8	8.33	6990	6.21	80.5	7.03	7400	5.24	85.2	5.54	7810	4.13	90.0
B14	10.5	7390	7.83	85.1	9.32	7850	6.95	90.4	7.89	8300	5.89	95.6	6.45	9090	4.81	105
B15	11.1	7790	8.28	89.7	9.84	8280	7.34	95.4	8.32	8760	6.21	101	6.78	9550	5.06	110
B16	20.1	14100	15.0	162	16.5	13850	12.3	160	12.9	13600	9.62	157	9.67	13600	7.21	157
B17	28.8	20200	21.5	233	25.5	21400	19.0	247	21.5	22600	16.0	260	16.6	23400	12.4	270
B18	42.2	29600	31.5	341	37.3	31400	27.9	362	31.5	33200	23.5	382	24.6	34700	18.4	400
B19	57.0	39900	42.5	460	50.5	42350	37.7	488	42.6	44800	31.8	516	34.8	49000	26.0	564
B20	72.3	50700	53.9	584	64.1	53900	47.8	621	54.2	57100	40.4	658	44.4	62500	33.1	720
B21	92.7	65000	69.2	749	84.3	70800	62.9	816	72.8	76600	54.3	882	58.5	82500	43.6	950
B22	111	77600	82.8	894	107	89800	79.8	1034	96.8	102000	72.2	1175	80.6	114000	60.1	1313
B23									115	121000	85.8	1394	97.7	138000	72.9	1590
B24									148	155000	110	1786	120	169000	89.5	1947
B25									182	192000	136	2212	159	224000	119	2580
B26									221	233000	165	2684	194	273000	145	3145

25 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	70.0				58.4				46.6				34.8			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B07	0.22	187	0.17	2.15	0.20	199	0.15	2.29	0.17	211	0.13	2.43	0.13	217	0.10	2.50
B08	0.39	325	0.29	3.74	0.34	345	0.26	3.97	0.29	365	0.22	4.20	0.24	400	0.18	4.61
B09	0.98	775	0.73	8.93	0.98	823	0.73	9.48	0.84	870	0.63	10.0	0.64	870	0.48	10.0
B10	2.01	1670	1.50	19.2	1.76	1760	1.31	20.3	1.47	1840	1.10	21.2	1.11	1860	0.83	21.4
B11	5.01	4170	3.74	48.0	4.43	4430	3.31	51.0	3.74	4690	2.79	54.0	3.06	5130	2.28	59.1
B12	5.25	4380	3.92	50.5	4.65	4650	3.47	53.6	3.93	4920	2.93	56.7	3.11	5210	2.32	60.0
B13	7.90	6590	5.89	75.9	7.00	6995	5.22	80.6	5.91	7400	4.41	85.2	4.66	7810	3.48	90.0
B14	9.15	7630	6.83	87.9	8.10	8100	6.04	93.3	6.84	8570	5.10	98.7	5.60	9390	4.18	108
B15	10.5	8800	7.83	101	9.15	9180	6.83	106	7.62	9550	5.68	110	5.69	9550	4.24	110
B16	16.5	13700	12.3	158	14.0	14000	10.5	161	11.4	14300	8.50	165	8.32	13900	6.21	160
B17	24.2	20200	18.1	233	21.4	21400	16.0	247	18.1	22600	13.5	260	14.0	23400	10.4	270
B18	35.7	29700	26.6	342	31.6	31600	23.6	364	26.6	33400	19.8	385	20.7	34700	15.4	400
B19	53.7	44800	40.1	516	47.5	47500	35.5	547	40.1	50200	29.9	578	32.8	55000	24.5	634
B20	65.6	54700	48.9	630	58.4	58400	43.6	673	49.6	62100	37.0	715	39.1	65600	29.2	756
B21	82.4	68700	61.5	791	74.1	74100	55.3	854	63.6	79600	47.4	917	49.2	82500	36.7	950
B22	98.6	82200	73.6	947	92.7	92600	69.1	1067	82.2	103000	61.4	1187	68.0	114000	50.7	1313

Torque Rating - Single Reduction (6:1 ~ 87:1)

29 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	60.3				50.3				40.2				30.0			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B07	0.22	214	0.16	2.47	0.19	216	0.14	2.48	0.15	217	0.11	2.50	0.11	217	0.08	2.50
B08	0.38	371	0.28	4.27	0.34	394	0.25	4.54	0.29	417	0.22	4.80	0.22	428	0.16	4.93
B09	0.91	870	0.68	10.0	0.91	870	0.68	10.0	0.74	870	0.55	10.0	0.55	870	0.41	10.0
B10	1.68	1620	1.25	18.7	1.47	1700	1.10	19.6	1.23	1780	0.92	20.5	0.92	1790	0.69	20.6
B11	4.45	4300	3.32	49.5	3.94	4570	2.94	52.6	3.33	4830	2.48	55.6	2.68	5210	2.00	60.0
B12	4.67	4520	3.48	52.1	4.14	4800	3.09	55.3	3.50	5090	2.61	58.6	2.72	5290	2.03	60.9
B13	7.09	6860	5.29	79.0	6.28	7290	4.68	84.0	5.30	7710	3.95	88.8	4.01	7810	2.99	90.0
B14	7.63	7380	5.69	85.0	6.76	7840	5.04	90.3	5.71	8300	4.26	95.6	4.67	9080	3.48	105
B15	9.11	8810	6.80	101	7.92	9180	5.91	106	6.57	9550	4.90	110	4.91	9550	3.66	110
B16	13.9	13400	10.4	154	12.4	14400	9.27	166	10.5	15300	7.83	176	8.03	15600	5.99	180
B17	22.2	21500	16.6	248	19.4	22500	14.5	259	16.1	23400	12.0	270	12.0	23400	8.95	270
B18	28.8	27800	21.5	320	25.5	29600	19.0	341	21.5	31300	16.0	361	17.6	34200	13.1	394
B19	47.0	45500	35.1	524	41.7	48300	31.1	556	35.2	51100	26.3	589	28.7	55900	21.4	644
B20	60.6	58700	45.2	676	54.3	62900	40.5	725	46.2	67000	34.5	772	35.4	68700	26.4	791
B21	74.8	72400	55.8	834	66.8	77500	49.9	893	56.8	82500	42.4	950	42.5	82500	31.7	950
B22	89.7	86800	66.9	1000	82.4	95400	61.5	1099	71.8	104000	53.6	1198	58.6	114000	43.7	1313
B23									86.3	125000	64.4	1440	72.2	141000	53.9	1624
B24									108	157000	80.6	1809	89.5	174000	66.8	2004
B25									148	215000	110	2477	125	244000	93.3	2811
B26									211	307000	157	3537	169	329000	126	3790
A90	50.3	48600	37.5	560	48.1	55650	35.8	641	43.2	62700	32.2	722	35.3	68600	26.3	790
A91									67.6	98100	50.4	1130	59.8	116000	44.6	1336
A92									140	203000	104	2339	124	241000	92.5	2776
A93									194	282000	145	3249	194	377000	145	4343

35 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	50.0				41.7				33.3				24.9			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B07	0.19	217	0.14	2.50	0.16	217	0.12	2.50	0.12	217	0.09	2.50	0.09	217	0.07	2.50
B08	0.37	434	0.28	5.00	0.31	434	0.23	5.00	0.25	434	0.19	5.00	0.19	434	0.14	5.00
B09	0.79	851	0.59	9.8	0.77	861	0.57	9.9	0.61	870	0.46	10.0	0.46	870	0.34	10.0
B10	1.38	1610	1.03	18.5	1.22	1700	0.91	19.6	1.02	1790	0.76	20.6	0.76	1790	0.57	20.6
B11	4.22	4930	3.15	56.8	3.62	5070	2.70	58.4	2.97	5210	2.22	60.0	2.22	5210	1.66	60.0
B12	4.74	5530	3.54	63.7	4.16	5820	3.10	67.0	3.49	6100	2.60	70.3	2.71	6360	2.02	73.3
B13	5.64	6580	4.21	75.8	5.00	6990	3.73	80.5	4.22	7400	3.15	85.2	3.33	7810	2.48	90.0
B14	7.46	8710	5.57	100	6.52	9130	4.86	105	5.44	9550	4.06	110	4.07	9550	3.04	110
B15	8.17	9550	6.09	110	7.98	11200	5.95	129	6.85	12000	5.11	138	5.21	12200	3.89	141
B16	13.2	15400	9.85	177	10.7	14900	7.96	172	8.25	14400	6.15	166	6.35	14900	4.74	172
B17	19.4	22600	14.5	260	16.5	23000	12.3	265	13.4	23400	10.0	270	9.96	23400	7.43	270
B18	28.8	33600	21.5	387	24.4	34150	18.2	393	19.8	34700	14.8	400	14.8	34700	11.0	400
B19	37.2	43400	27.8	500	32.9	46100	24.6	531	27.8	48800	20.7	562	22.7	53400	16.9	615
B20	51.1	59600	38.1	687	45.8	64100	34.2	738	39.1	68600	29.2	790	30.2	70800	22.5	816
B21	66.4	77500	49.5	893	59.0	82600	44.0	952	50.1	87800	37.4	1011	37.9	89000	28.3	1025
B22	80.9	94400	60.3	1087	72.9	102000	54.4	1175	62.5	109500	46.6	1261	50.0	117500	37.3	1354
A90	54.7	63800	40.8	735	50.8	71000	37.9	818	44.6	78100	33.3	900	36.5	85600	27.2	986

43 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	40.7				34.0				27.1				20.2			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B07	0.15	217	0.11	2.50	0.13	217	0.09	2.50	0.10	217	0.07	2.50	0.08	217	0.06	2.50
B08	0.30	434	0.22	5.00	0.25	434	0.19	5.00	0.20	434	0.15	5.00	0.15	434	0.11	5.00
B09	0.67	870	0.50	10.0	0.62	870	0.46	10.0	0.50	870	0.37	10.0	0.37	870	0.28	10.0
B10	1.26	1800	0.94	20.7	1.05	1810	0.78	20.9	0.84	1810	0.63	20.9	0.63	1810	0.47	20.9
B11	3.01	4320	2.25	49.8	2.67	4590	1.99	52.9	2.25	4850	1.68	55.9	1.81	5210	1.35	60.0

Torque Rating - Single Reduction (6:1 ~ 87:1)

43 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	40.7				34.0				27.1				20.2			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B12	3.16	4530	2.36	52	2.80	4820	2.09	56	2.37	5100	1.77	59	1.90	5470	1.42	63
B13	4.58	6570	3.42	76	4.06	6990	3.03	80	3.43	7400	2.56	85	2.71	7810	2.02	90
B14	4.91	7040	3.66	81	4.35	7480	3.24	86	3.67	7910	2.74	91	3.00	8660	2.24	100
B15	6.04	8660	4.51	100	5.30	9110	3.95	105	4.43	9550	3.30	110	3.31	9550	2.47	110
B16	10.1	14500	7.53	167	8.09	13900	6.04	160	6.19	13300	4.62	153	5.02	14500	3.74	167
B17	14.4	20600	10.7	237	12.8	21900	9.53	252	10.8	23200	8.06	267	8.12	23400	6.06	270
B18	23.0	33000	17.2	380	19.7	33900	14.7	391	16.1	34700	12.0	400	12.0	34700	8.95	400
B19	32.1	46100	23.9	531	28.4	48900	21.2	563	24.0	51700	17.9	596	19.6	56600	14.6	652
B20	42.2	60500	31.5	697	38.0	65400	28.3	753	32.5	70200	24.2	809	25.3	72900	18.9	840
B21	57.5	82500	42.9	950	51.1	87800	38.1	1011	43.2	93000	32.2	1071	33.1	95500	24.7	1100
B22	70.9	102000	52.9	1175	62.7	108000	46.8	1244	53.3	115000	39.8	1325	42.1	121000	31.4	1394
B23									66.5	143000	49.6	1647	54.0	156000	40.3	1797
B24									86.7	187000	64.7	2154	69.3	200000	51.7	2304
B25									105	227000	78.3	2615	90.2	260000	67.3	2995
B26									148	318000	110	3663	119	345000	88.8	3974
B27									195	421000	145	4850	158	458000	118	5276
A90	50.30	72100	37.52	831	47.92	82300	35.75	948	43.0	92500	32.1	1066	35.2	101000	26.3	1164
A91									50.3	108000	37.5	1244	46.7	135000	34.8	1555
A92									96.2	207000	71.8	2385	90.0	259000	67.1	2984
A93									171	367000	128	4228	158	456000	118	5253

51 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	34.3				28.6				22.8				17.1			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B08	0.19	326	0.14	3.76	0.17	346	0.13	3.99	0.14	366	0.11	4.22	0.12	401	0.09	4.62
B09	0.46	782	0.34	9.01	0.45	826	0.34	9.5	0.39	870	0.29	10.0	0.32	870	0.24	10.0
B10	0.90	1530	0.67	17.6	0.81	1660	0.61	19.1	0.70	1790	0.52	20.6	0.52	1780	0.39	20.5
B11	2.78	4720	2.07	54.4	2.44	4970	1.82	57.3	2.04	5210	1.52	60.0	1.52	5210	1.13	60.0
B12	3.32	5650	2.48	65.1	2.82	5740	2.10	66.1	2.28	5830	1.70	67.2	1.79	6130	1.34	70.6
B13	3.89	6620	2.90	76.3	3.45	7030	2.57	81.0	2.91	7440	2.17	85.7	2.28	7810	1.70	90.0
B14	4.55	7730	3.39	89.0	4.03	8220	3.01	94.7	3.40	8700	2.54	100	2.78	9520	2.07	110
B15	5.60	9530	4.18	110	4.68	9540	3.49	110	3.74	9550	2.79	110	3.28	11200	2.45	129
B16	7.51	12800	5.60	147	6.32	12900	4.71	149	5.04	12900	3.76	149	3.78	12900	2.82	149
B17	12.9	21900	9.62	252	11.2	22700	8.32	262	9.17	23400	6.84	270	6.85	23400	5.11	270
B18	17.7	30100	13.2	347	15.7	31900	11.7	367	13.2	33700	9.85	388	10.1	34600	7.5	399
B19	27.8	47300	20.7	545	24.7	50300	18.4	579	20.8	53200	15.5	613	17.0	58300	12.7	672
B20	34.9	59300	26.0	683	31.9	65100	23.8	750	27.8	70900	20.7	817	21.6	73900	16.1	851
B21	49.2	83600	36.7	963	43.6	88900	32.5	1024	36.9	94300	27.5	1086	27.9	95500	20.8	1100
B22	60.0	102000	44.8	1175	53.1	108300	39.6	1248	44.8	114500	33.4	1319	35.4	121000	26.4	1394

59 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	29.7				24.7				19.7				14.7			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B08	0.18	361	0.14	4.16	0.16	384	0.12	4.42	0.14	406	0.10	4.68	0.11	434	0.08	5.00
B09	0.44	805	0.33	9.27	0.44	838	0.33	9.6	0.36	870	0.27	10.0	0.27	870	0.20	10.0
B10	0.82	1610	0.61	18.5	0.74	1750	0.55	20.2	0.64	1890	0.48	21.8	0.45	1770	0.34	20.4
B11	2.15	4230	1.60	48.7	1.91	4490	1.42	51.7	1.61	4750	1.20	54.7	1.31	5200	0.98	59.9
B12	2.73	5380	2.04	62.0	2.30	5430	1.72	62.6	1.86	5490	1.38	63.2	1.54	6110	1.15	70.4
B13	3.35	6610	2.50	76.1	2.96	7010	2.21	80.8	2.50	7400	1.87	85.2	1.97	7810	1.47	90.0
B14	4.43	8720	3.30	100	3.87	9140	2.89	105	3.23	9550	2.41	110	2.42	9550	1.81	110
B15	4.85	9550	3.62	110	4.62	10900	3.45	126	4.13	12200	3.08	141	3.07	12100	2.29	139
B16	7.00	13700	5.22	158	6.07	14300	4.53	165	5.02	14900	3.74	172	3.72	14700	2.78	169
B17	11.0	21700	8.21	250	9.57	22600	7.14	260	7.92	23400	5.91	270	5.92	23400	4.42	270
B18	14.4	28300	10.7	326	12.8	30100	9.54	347	10.8	31800	8.06	366	8.77	34700	6.54	400
B19	23.4	46000	17.5	530	20.7	48900	15.5	563	17.5	51700	13.1	596	14.3	56600	10.7	652
B20	29.5	58000	22.0	668	27.5	64800	20.5	746	24.2	71500	18.1	824	18.5	74800	13.8	862

Torque Rating - Single Reduction (6:1 ~ 87:1)

59 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	29.7				24.7				19.7				14.7			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B21	43.0	84700	32.1	976	38.2	90100	28.5	1038	32.3	95500	24.1	1100	24.2	95500	18.1	1100
B22	51.6	101000	38.5	1164	45.8	107500	34.1	1238	38.7	114000	28.9	1313	30.7	121000	22.9	1394
B23									46.4	137000	34.6	1578	37.4	148000	27.9	1705
B24									60.2	178000	44.9	2051	48.5	191000	36.2	2200
B25									86.3	255000	64.4	2938	66.0	260000	49.2	2995
B26									116	343000	86.5	3951	94.3	373000	70.3	4297
B27									156	461000	116	5311	127	501000	94.7	5772
A90	28.6	56200	21.3	647	27.7	65300	20.7	752	25.2	74400	18.8	857	20.6	81400	15.4	938
A91									39.0	115000	29.1	1325	35.6	141000	26.6	1624
A92									78.0	230000	58.2	2650	65.8	260000	49.1	2995
A93									143	422000	107	4861	127	501000	94.7	5772

71 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	24.6				20.6				16.4				12.3			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B09	0.34	664	0.25	7.65	0.34	706	0.25	8.13	0.29	747	0.22	8.61	0.23	765	0.17	8.81
B10	0.67	1590	0.50	18.3	0.59	1690	0.44	19.5	0.50	1780	0.37	20.5	0.38	1820	0.28	21.0
B11	1.51	3570	1.13	41.1	1.34	3800	1.00	43.8	1.13	4020	0.84	46.3	0.92	4400	0.69	50.7
B12	1.59	3770	1.19	43.4	1.41	4000	1.05	46.1	1.19	4230	0.89	48.7	0.97	4620	0.72	53.2
B13	2.88	6810	2.15	78.5	2.55	7230	1.90	83.3	2.15	7650	1.60	88.1	1.64	7810	1.22	90.0
B14	3.26	7720	2.43	88.9	2.89	8200	2.16	94.5	2.44	8690	1.82	100	2.00	9510	1.49	110
B15	4.03	9540	3.01	110	3.36	9500	2.51	109	2.68	9550	2.00	110	2.36	11200	1.76	129
B16	5.27	12500	3.93	144	4.47	12700	3.33	146	3.62	12900	2.70	149	2.71	12900	2.02	149
B17	9.30	22000	6.94	253	8.01	22700	5.97	262	6.59	23400	4.92	270	4.92	23400	3.67	270
B18	13.0	30800	9.70	355	11.5	32700	8.59	377	9.73	34600	7.26	399	7.29	34700	5.44	400
B19	20.7	49100	15.4	566	18.3	52100	13.7	600	15.5	55100	11.6	635	12.7	60400	9.47	696
B20	25.2	59600	18.8	687	22.7	64400	16.9	742	19.5	69250	14.5	798	15.1	71750	11.2	827
B21	35.3	83600	26.3	963	30.4	86300	22.7	994	25.0	89000	18.7	1025	18.7	89000	14.0	1025
B22	43.3	102500	32.3	1181	37.7	106800	28.1	1230	31.3	111500	23.4	1284	24.1	115000	18.0	1325

87 : 1 **Always apply appropriate service factor (s.f.) to your application requirement.**

Input rpm	1750				1460				1165				870			
Output rpm	20.1				16.8				13.4				10.0			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kw)	Output Torque (kg-m)
B09	0.34	812	0.25	9.35	0.31	841	0.23	9.7	0.25	870	0.19	10.0	0.21	870	0.16	10.0
B10	0.67	1940	0.50	22.3	0.58	2020	0.43	23.3	0.48	2090	0.36	24.1	0.33	1920	0.25	22.1
B11	1.44	4170	1.07	48.0	1.28	4430	0.95	51.0	1.08	4690	0.81	54.0	0.88	5130	0.66	59.1
B12	1.51	4390	1.13	50.6	1.33	4630	0.99	53.3	1.12	4870	0.83	56.1	0.91	5320	0.68	61.3
B13	2.66	7710	1.98	88.8	2.17	7560	1.62	87.1	1.70	7400	1.27	85.2	1.34	7810	1.00	90.0
B14	3.03	8790	2.26	101	2.64	9170	1.97	106	2.19	9550	1.63	110	1.64	9550	1.22	110
B15	3.29	9550	2.45	110	3.09	10800	2.30	124	2.75	12000	2.05	138	2.09	12200	1.56	141
B16	4.75	13800	3.54	159	4.05	14100	3.02	162	3.30	14400	2.46	166	2.54	14800	1.89	170
B17	7.46	21600	5.57	249	6.48	22500	4.84	259	5.38	23400	4.01	270	4.02	23400	3.00	270
B18	11.4	33100	8.50	381	9.74	33900	7.27	391	7.96	34700	5.94	400	5.95	34700	4.44	400
B19	18.1	52500	13.5	605	16.0	55800	12.0	643	13.5	59000	10.1	680	10.7	62500	7.98	720
B20	21.1	61200	15.7	705	18.5	64100	13.8	738	15.4	67000	11.5	772	11.8	68700	8.80	791
B21	28.4	82500	21.2	950	23.7	82500	17.7	950	18.9	82500	14.1	950	14.2	82500	10.6	950
B22	35.5	103000	26.5	1187	30.4	106000	22.7	1221	24.9	109000	18.6	1256	18.7	109000	14.0	1256
B23									31.8	139000	23.7	1601	23.8	137000	17.8	1578
B24									42.6	186000	31.8	2143	32.7	191000	24.4	2200
B25									56.9	248000	42.4	2857	42.5	248000	31.7	2857
B26									70.9	309000	52.9	3560	57.3	334000	42.7	3848
A90	25.1	72700	18.7	838	23.9	83200	17.9	958	21.5	93600	16.0	1078	17.6	103000	13.1	1187
A91									25.1	109000	18.7	1256	25.0	146000	18.7	1682
A92									50.3	219000	37.5	2523	44.6	260000	33.3	2995
A93									68.7	299000	51.3	3444	66.5	388000	49.6	4470

Torque Rating - Double Reduction (102:1 ~ 7569:1)

1750 rpm (60 Hz x 4P)

Always apply appropriate service factor (s.f.) to your application requirement.

Reduction Ratio	102 (17 x 6)				121 (11 x 11)				165 (15 x 11)				174 (29 x 6)				187 (17 x 11)			
Output RPM	17.2				14.5				10.6				10.1				9.36			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707	0.125	217	0.093	2.50	0.125	217	0.093	2.50	0.125	217	0.093	2.50	0.125	217	0.093	2.50	0.125	217	0.093	2.50
B0807	0.125	395	0.093	4.55	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00
B0908	0.360	1130	0.269	13.0	0.300	1130	0.224	13.0	0.220	1130	0.164	13.0	0.210	1130	0.157	13.0	0.190	1130	0.142	13.0
B1008	0.540	1680	0.403	19.4	0.590	2170	0.440	25.0	0.430	2170	0.321	25.0	0.410	2170	0.306	25.0	0.380	2170	0.283	25.0
B1109	1.67	5200	1.25	59.9	1.41	5200	1.05	59.9	1.03	5200	0.768	59.9	0.980	5200	0.731	59.9	0.910	5200	0.679	59.9
B1310	2.50	7810	1.87	90.0	2.11	7810	1.57	90.0	1.55	7810	1.16	90.0	1.47	7810	1.10	90.0	1.36	7810	1.01	90.0
B1409	3.10	9550	2.31	110	2.58	9550	1.92	110	1.89	9550	1.41	110	1.80	9550	1.34	110	1.67	9550	1.25	110
B1611	5.01	15600	3.74	180	4.22	15600	3.15	180	3.09	15600	2.31	180	2.94	15600	2.19	180	2.73	15600	2.04	180
B1711	6.80	21300	5.07	245	5.83	21700	4.35	250	4.63	23400	3.45	270	4.41	23400	3.29	270	4.09	23400	3.05	270
B1813	11.1	34700	8.28	400	7.74	28600	5.77	329	6.87	34700	5.13	400	6.54	34700	4.88	400	6.06	34700	4.52	400
B1911																				
B1913	13.5	42300	10.1	487	13.1	48600	9.77	560	11.7	59000	8.73	680	11.4	60700	8.50	699	10.6	60800	7.91	700
B2011																				
B2013									12.8	64900	9.55	748	13.0	68700	9.70	791				
B2113																				
B2116					16.8	62500	12.5	720	15.9	80200	11.9	924	15.6	82500	11.6	950				
B2213																				
B2217					22.2	82500	16.6	950	20.8	105000	15.5	1210	22.4	119000	16.7	1371				
B2316													28.8	153000	21.5	1763				
B2318					25.7	95500	19.2	1100	26.5	134000	19.8	1544								
B2416																				
B2418					33.0	122000	24.6	1405	34.0	172000	25.4	1981								
B2517																				
B2519					41.9	156000	31.3	1797	39.3	200000	29.3	2304								
B2619					53.8	200000	40.1	2304	51.1	260000	38.1	2995								
B2719																				

For all possible double stage reduction ratios, please refer to page 48.

Reduction Ratio	210 (35 x 6)				231 (21 x 11)				258 (43 x 6)				289 (17 x 17)				319 (29 x 11)			
Output RPM	8.33				7.58				6.78				6.06				5.49			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707					0.125	217	0.093	2.50	0.125	217	0.093	2.50	0.125	217	0.093	2.50	0.125	217	0.093	2.50
B0807					0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00
B0908	0.170	1130	0.127	13.0	0.160	1130	0.119	13.0	0.140	1130	0.104	13.0	0.130	1130	0.097	13.0	0.125	1130	0.093	13.0
B1008	0.340	2170	0.254	25.0	0.310	2170	0.231	25.0	0.270	2170	0.201	25.0	0.250	2170	0.187	25.0	0.220	2170	0.164	25.0
B1109	0.810	5200	0.604	59.9	0.740	5200	0.552	59.9	0.660	5200	0.492	59.9	0.590	5200	0.440	59.9	0.530	5200	0.395	59.9
B1310	1.21	7810	0.903	90.0	1.11	7810	0.828	90.0	0.990	7810	0.739	90.0	0.880	7810	0.656	90.0	0.800	7810	0.597	90.0
B1409	1.48	9550	1.10	110	1.35	9550	1.01	110	1.21	9550	0.903	110	1.08	9550	0.806	110	0.980	9550	0.731	110
B1611	2.43	15600	1.81	180	2.21	15600	1.65	180	1.97	15600	1.47	180	1.76	15600	1.31	180	1.60	15600	1.19	180
B1711	3.64	23400	2.72	270	3.31	23400	2.47	270	2.96	23400	2.21	270	2.65	23400	1.98	270	2.40	23400	1.79	270
B1813	5.40	34700	4.03	400	4.91	34700	3.66	400	4.39	34700	3.27	400	3.93	34700	2.93	400	3.56	34700	2.66	400
B1911																	4.98	48600	3.72	560
B1913	9.64	62100	7.19	715	8.82	62500	6.58	720	7.90	62500	5.89	720	6.88	60800	5.13	700	6.36	62500	4.74	720
B2011																				
B2013									9.23	72900	6.89	840					7.04	68700	5.25	791
B2113																	8.40	82500	6.27	950
B2116					11.6	82500	8.65	950	12.1	95500	9.03	1100								
B2213																				
B2217					16.8	119000	12.5	1371	15.4	122000	11.5	1405					12.2	119000	9.10	1371
B2316									19.7	156000	14.7	1797					15.7	153000	11.7	1763
B2318					19.5	139000	14.5	1601												
B2416									25.3	200000	18.9	2304								
B2418					24.5	174000	18.3	2004									17.7	174000	13.2	2004
B2517									32.9	260000	24.5	2995								
B2519					35.1	248000	26.2	2857									25.4	248000	18.9	2857
B2619					42.7	304000	31.9	3502									34.2	334000	25.5	3848
B2719																				

NOTE: Hp ratings shown in the shaded area are to overcome the break-away torque requirements in high inertia or low temperature applications. Do not use those hp ratings as the basis of your selections. You should always size your applications based on output torque requirements. Please consult with factory.

Torque Rating - Double Reduction (102:1 ~ 7569:1)

1750 rpm (60 Hz x 4P)

Always apply appropriate service factor (s.f.) to your application requirement.

Reduction Ratio	354 (59 x 6)				385 (35 x 11)				435 (29 x 15)				473 (43 x 11)				493 (29 x 17)			
Output RPM	4.94				4.55				4.02				3.70				3.55			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707					0.125	217	0.093	2.50	0.125	217	0.093	2.50	0.125	217	0.093	2.50	0.125	217	0.093	2.50
B0807					0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.200	2170	0.149	25.0	0.180	2170	0.134	25.0	0.160	2170	0.119	25.0	0.150	2170	0.112	25.0	0.140	2170	0.104	25.0
B1109	0.480	5200	0.358	59.9	0.440	5200	0.328	59.9	0.390	5200	0.291	59.9	0.360	5200	0.269	59.9	0.340	5200	0.254	59.9
B1310	0.720	7810	0.537	90.0	0.660	7810	0.492	90.0	0.590	7810	0.440	90.0	0.540	7810	0.403	90.0	0.520	7810	0.388	90.0
B1409	0.880	9550	0.656	110	0.810	9550	0.604	110	0.720	9550	0.537	110	0.660	9550	0.492	110	0.630	9550	0.470	110
B1611	1.44	15600	1.07	180	1.32	15600	0.985	180	1.17	15600	0.873	180	1.08	15600	0.806	180	1.03	15600	0.768	180
B1711	2.16	23400	1.61	270	1.99	23400	1.48	270	1.76	23400	1.31	270	1.62	23400	1.21	270	1.55	23400	1.16	270
B1813	3.20	34700	2.39	400	2.95	34700	2.20	400	2.60	34700	1.94	400	2.40	34700	1.79	400	2.30	34700	1.72	400
B1911	4.48	48600	3.34	560	4.12	48600	3.07	560	3.65	48600	2.72	560	3.36	48600	2.51	560	3.22	48600	2.40	560
B1913	5.73	62500	4.27	720	5.27	62500	3.93	720	4.69	62500	3.50	720	4.29	62500	3.20	720	4.11	62500	3.07	720
B2011																				
B2013	6.68	72900	4.98	840					5.16	68700	3.85	791	5.00	72900	3.73	840				
B2113	8.81	95500	6.57	1100					6.19	82500	4.62	950	6.55	95500	4.89	1100	5.43	82500	4.05	950
B2116																				
B2213									8.93	119000	6.66	1371	8.43	122000	6.29	1405	7.89	119000	5.89	1371
B2217	11.3	122000	8.43	1405																
B2316	14.4	156000	10.7	1797					11.5	153000	8.58	1763	10.8	156000	8.06	1797	10.1	153000	7.53	1763
B2318																				
B2416	18.4	200000	13.7	2304					13.1	174000	9.77	2004	11.9	174000	8.88	2004	11.5	174000	8.58	2004
B2418																				
B2517	24.0	260000	17.9	2995					18.6	248000	13.9	2857	17.8	260000	13.3	2995	16.4	248000	12.2	2857
B2519																				
B2619									25.1	334000	18.7	3848	26.4	382000	19.7	4401	22.1	334000	16.5	3848
B2719													35.7	521000	26.6	6002				

For all possible double stage reduction ratios, please refer to page 48.

Reduction Ratio	522 (87 x 6)				595 (35 x 17)				649 (59 x 11)				731 (43 x 17)				841 (29 x 29)			
Output RPM	3.35				2.94				2.70				2.39				2.08			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707					0.125	217	0.093	2.50	0.125	217	0.093	2.50	0.125	217	0.093	2.50	0.125	217	0.093	2.50
B0807					0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.140	2170	0.104	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0
B1109	0.330	5200	0.246	59.9	0.290	5200	0.216	59.9	0.260	5200	0.194	59.9	0.230	5200	0.172	59.9	0.200	5200	0.149	59.9
B1310	0.490	7810	0.366	90.0	0.430	7810	0.321	90.0	0.390	7810	0.291	90.0	0.350	7810	0.261	90.0	0.300	7810	0.224	90.0
B1409	0.600	9550	0.448	110	0.520	9550	0.388	110	0.480	9550	0.358	110	0.430	9550	0.321	110	0.370	9550	0.276	110
B1611	0.980	15600	0.731	180	0.860	15600	0.642	180	0.790	15600	0.589	180	0.700	15600	0.522	180	0.610	15600	0.455	180
B1711	1.46	23400	1.09	270	1.28	23400	0.955	270	1.18	23400	0.880	270	1.04	23400	0.776	270	0.910	23400	0.679	270
B1813	2.17	34700	1.62	400	1.90	34700	1.42	400	1.75	34700	1.31	400	1.55	34700	1.16	400	1.35	34700	1.01	400
B1911	3.04	48600	2.27	560	2.67	48600	1.99	560	3.13	62500	2.33	720	2.77	62500	2.07	720	2.41	62500	1.80	720
B1913	3.88	62500	2.89	720	3.41	62500	2.54	720												
B2011																				
B2013	4.30	68700	3.21	791					3.65	72900	2.72	840	3.23	72900	2.41	840	2.67	68700	1.99	791
B2113	5.13	82500	3.83	950					4.78	95500	3.57	1100	4.23	95500	3.16	1100	3.18	82500	2.37	950
B2116																				
B2213	6.82	109000	5.09	1256					6.15	122000	4.59	1405	5.44	122000	4.06	1405	4.62	119000	3.45	1371
B2217																				
B2316	8.64	139000	6.45	1601					7.86	156000	5.86	1797	6.96	156000	5.19	1797	5.94	153000	4.43	1763
B2318																				
B2416	11.9	191000	8.88	2200					8.71	173000	6.50	1993	8.92	200000	6.65	2304	6.71	174000	5.01	2004
B2418																				
B2517	15.5	248000	11.6	2857					13.0	260000	9.70	2995	11.5	260000	8.58	2995	9.63	248000	7.18	2857
B2519																				
B2619									17.1	340000	12.8	3917	17.0	382000	12.7	4401	13.0	334000	9.70	3848
B2719									26.1	521000	19.5	6002	23.1	521000	17.2	6002				

NOTE: Hp ratings shown in the shaded area are to overcome the break-away torque requirements in high inertia or low temperature applications. Do not use those hp ratings as the basis of your selections. You should always size your applications based on output torque requirements. Please consult with factory.

Torque Rating - Double Reduction (102:1 ~ 7569:1)

1750 rpm (60 Hz x 4P)

Always apply appropriate service factor (s.f.) to your application requirement.

Reduction Ratio	957 (87 x 11)				1003 (59 x 17)				1225 (35 x 35)				1247 (43 x 29)				1479 (87 x 17)			
Output RPM	1.83				1.74				1.43				1.40				1.18			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707									0.125	217	0.093	2.50	0.125	217	0.093	2.50				
B0807					0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00				
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0
B1109	0.180	5200	0.134	59.9	0.170	5200	0.127	59.9	0.140	5200	0.104	59.9	0.140	5200	0.104	59.9	0.125	5200	0.093	59.9
B1310	0.270	7810	0.201	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0
B1409	0.330	9550	0.246	110	0.310	9550	0.231	110	0.250	9550	0.187	110	0.250	9550	0.187	110	0.250	9550	0.187	110
B1611	0.530	15600	0.395	180	0.510	15600	0.380	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180
B1711	0.800	23400	0.597	270	0.760	23400	0.567	270	0.620	23400	0.463	270	0.610	23400	0.455	270	0.520	23400	0.388	270
B1813	1.19	34700	0.888	400	1.13	34700	0.843	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.75	400
B1911	2.12	62500	1.58	720	2.02	62500	1.51	720	1.66	62500	1.24	720	1.62	62500	1.21	720	1.37	62500	1.02	720
B1913																				
B2011													2.00	72900	1.49	840	2.00	68700	1.49	791
B2013	2.35	68700	1.75	791	2.35	72900	1.75	840												
B2113	2.80	82500	2.09	950	3.08	95500	2.30	1100					2.48	95500	1.85	1100	2.00	82500	1.49	950
B2116																				
B2213	3.72	109000	2.78	1256	3.96	122000	2.95	1405					3.20	122000	2.39	1405	3.00	109000	2.24	1256
B2217																				
B2316	4.72	139000	3.52	1601	5.07	156000	3.78	1797					4.08	156000	3.04	1797	3.04	139000	2.27	1601
B2318																				
B2416	6.52	191000	4.86	2200	6.50	200000	4.85	2304					5.23	200000	3.90	2304	4.21	191000	3.14	2200
B2418																				
B2517	8.47	248000	6.32	2857	8.39	260000	6.26	2995					6.75	260000	5.04	2995	5.46	248000	4.07	2857
B2519																				
B2619	11.4	334000	8.50	3848	12.4	382000	9.25	4401					10.0	382000	7.45	4401	7.50	334000	5.60	3848
B2719					16.8	521000	12.5	6002					13.5	521000	10.1	6002				

For all possible double stage reduction ratios, please refer to page 48.

Reduction Ratio	1505 (43 x 35)				1711 (59 x 29)				1849 (43 x 43)				2065 (59 x 35)				2537 (59 x 43)			
Output RPM	1.16				1.02				0.95				0.85				0.69			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707	0.125	217	0.093	2.50					0.125	217	0.093	2.50								
B0807	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0
B1109	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9
B1310	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0
B1409	0.250	9550	0.187	110	0.250	9550	0.187	110	0.250	9550	0.187	110	0.250	9550	0.187	110	0.250	9550	0.187	110
B1611	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180
B1711	0.510	23400	0.380	270	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270
B1813	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400
B1911	1.34	62500	1.00	720	1.18	62500	0.880	720	1.10	62500	0.821	720	1.00	62500	0.746	720	1.00	62500	0.746	720
B1913																				
B2011	2.00	72900	1.49	840	2.00	72900	1.49	840	2.00	72900	1.49	840	2.00	72900	1.49	840	2.00	72900	1.49	840
B2013																				
B2113	2.00	95500	1.49	1100	2.00	95500	1.49	1100	2.00	95500	1.49	1100	2.00	95500	1.49	1100	2.00	95500	1.49	1100
B2116																				
B2213	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405
B2217																				
B2316	3.39	156000	2.53	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797
B2318																				
B2416	4.34	200000	3.24	2304	3.82	200000	2.85	2304	3.53	200000	2.64	2304	3.16	200000	2.36	2304	3.00	200000	2.24	2304
B2418																				
B2517	5.59	260000	4.17	2995	5.00	260000	3.73	2995	5.00	260000	3.73	2995	5.00	260000	3.73	2995	5.00	260000	3.73	2995
B2519																				
B2619	8.29	382000	6.19	4401	7.50	382000	5.60	4401	7.50	382000	5.60	4401	7.50	382000	5.60	4401	7.50	382000	5.60	4401
B2719	11.2	521000	8.36	6002	10.0	521000	7.46	6002	10.0	521000	7.46	6002	10.0	521000	7.46	6002	10.0	521000	7.46	6002

NOTE: Hp ratings shown in the shaded area are to overcome the break-away torque requirements in high inertia or low temperature applications. Do not use those hp ratings as the basis of your selections. You should always size your applications based on output torque requirements. Please consult with factory.

Torque Rating - Double Reduction (102:1 ~ 7569:1)

1750 rpm (60 Hz x 4P)

Always apply appropriate service factor (s.f.) to your application requirement.

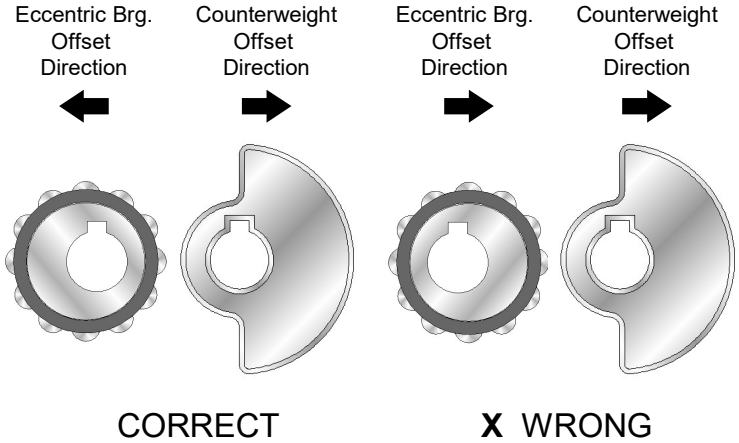
Reduction Ratio	3045 (87 x 35)				3481 (59 x 59)				3741 (87 x 43)				4437 (87 x 51)				5133 (87 x 59)			
Output RPM	0.57				0.50				0.47				0.39				0.34			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707																				
B0807																				
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0
B1109	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9
B1310	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0
B1409	0.250	9550	0.187	110	0.250	9550	0.187	110	0.250	9550	0.187	110	0.250	9550	0.187	110	0.250	9550	0.187	110
B1611	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180
B1711	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270
B1813	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400
B1911	1.00	62500	0.746	720	1.00	62500	0.746	720	1.00	62500	0.746	720	1.00	62500	0.746	720	1.00	62500	0.746	720
B1913																				
B2011	2.00	72900	1.49	840	2.00	72900	1.49	840	2.00	72900	1.49	840	2.00	72900	1.49	840	2.00	72900	1.49	840
B2013																				
B2113	2.00	82500	1.49	950	2.00	95500	1.49	1100	2.00	95500	1.49	1100	2.00	95500	1.49	1100	2.00	95500	1.49	1100
B2116																				
B2213	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405
B2217																				
B2316	3.00	156000	2.24	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797
B2318																				
B2416	3.00	191000	2.24	2200	3.00	200000	2.24	2304	3.00	200000	2.24	2304	3.00	200000	2.24	2304	3.00	200000	2.24	2304
B2418																				
B2517	5.00	248000	3.73	2857	5.00	260000	3.73	2995	5.00	260000	3.73	2995	5.00	260000	3.73	2995	5.00	260000	3.73	2995
B2519																				
B2619	7.50	334000	5.60	3848	7.50	382000	5.60	4401	7.50	382000	5.60	4401	7.50	382000	5.60	4401	7.50	382000	5.60	4401
B2719					10.0	521000	7.46	6002	10.0	521000	7.46	6002	10.0	521000	7.46	6002	10.0	521000	7.46	6002

Reduction Ratio	6177 (87 x 71)				7569 (87 x 87)			
Output RPM	0.28				0.23			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707								
B0807								
B0908								
B1008								
B1109	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9
B1310	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0
B1409	0.250	9550	0.187	110	0.250	9550	0.187	110
B1611	0.500	15600	0.373	180	0.500	15600	0.373	180
B1711	0.500	23400	0.373	270	0.500	23400	0.373	270
B1813	1.00	34700	0.746	400	1.00	34700	0.746	400
B1911	1.00	62500	0.746	720	1.00	62500	0.746	720
B1913								
B2011	2.00	68700	1.49	791	2.00	68700	1.49	791
B2013								
B2113	2.00	82500	1.49	950	2.00	82500	1.49	950
B2116								
B2213	3.00	109000	2.24	1256	3.00	109000	2.24	1256
B2217								
B2316	3.00	139000	2.24	1601	3.00	139000	2.24	1601
B2318								
B2416	3.00	191000	2.24	2200	3.00	191000	2.24	2200
B2418								
B2517	5.00	248000	3.73	2857	5.00	248000	3.73	2857
B2519								
B2619	7.50	334000	5.60	3848	7.50	334000	5.60	3848
B2719								

DO YOU KNOW .....

Frame size B07, B08, and B09 are equipped with only one cycloidal disc in the ring gear assembly. In order to keep the cycloidal mechanism dynamically balanced during operation, a counter-weight is installed.

Please be aware that when assembling one of the frame sizes described above, the eccentric bearing and the counter-weight have to be offset in the opposite directions in order to achieve dynamic balance. Please see illustrations below:



NOTE: Hp ratings shown in the shaded area are to overcome the break-away torque requirements in high inertia or low temperature applications. Do not use those hp ratings as the basis of your selections. You should always size your applications based on output torque requirements. Please consult with factory.

Torque Rating - Double Reduction (102:1 ~ 7569:1)

1460 rpm (50 Hz x 4P)

Always apply appropriate service factor (s.f.) to your application requirement.

Reduction Ratio	102 (17 x 6)				121 (11 x 11)				165 (15 x 11)				174 (29 x 6)				187 (17 x 11)			
Output RPM	14.3				12.1				8.85				8.39				7.81			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707					0.125	217	0.093	2.50	0.125	217	0.093	2.50					0.125	217	0.093	2.50
B0807					0.125	434	0.093	5.00	0.125	434	0.093	5.00					0.125	434	0.093	5.00
B0908	0.300	1130	0.224	13.0	0.250	1130	0.187	13.0	0.185	1130	0.138	13.0	0.175	1130	0.131	13.0	0.160	1130	0.119	13.0
B1008	0.500	1925	0.373	22.2	0.490	2170	0.366	25.0	0.355	2170	0.265	25.0	0.340	2170	0.254	25.0	0.315	2170	0.235	25.0
B1109	1.39	5200	1.04	59.9	1.17	5200	0.873	59.9	0.855	5200	0.638	59.9	0.815	5200	0.608	59.9	0.755	5200	0.563	59.9
B1310	2.08	7810	1.55	90.0	1.75	7810	1.31	90.0	1.29	7810	0.959	90.0	1.22	7810	0.910	90.0	1.13	7810	0.843	90.0
B1409									1.57	9550	1.17	110	1.50	9550	1.12	110	1.39	9550	1.03	110
B1611	4.16	15600	3.10	180	3.51	15600	2.61	180	2.57	15600	1.91	180	2.44	15600	1.82	180	2.27	15600	1.69	180
B1711	5.90	22400	4.40	258	4.86	21700	3.63	250	3.86	23400	2.88	270	3.67	23400	2.74	270	3.41	23400	2.54	270
B1813	9.25	34700	6.90	400	6.44	28600	4.80	329	5.72	34700	4.27	400	5.44	34700	4.05	400	5.05	34700	3.76	400
B1911													2.62	21000	1.95	242	2.44	21000	1.82	242
B1913	13.6	51600	10.15	594	10.9	48600	8.14	560	9.74	59000	7.26	680	9.60	61600	7.16	710	8.83	60800	6.59	700
B2011																				
B2013									10.7	64900	7.94	748	10.8	68700	8.03	791				
B2113																				
B2116					14.0	62500	10.4	720	13.2	80200	9.85	924	12.9	82500	9.62	950				
B2213																				
B2217					18.5	82500	13.8	950	17.3	105000	12.9	1210	18.6	119000	13.9	1371				
B2316													23.9	153000	17.8	1763				
B2318					21.4	95500	16.0	1100	22.0	134000	16.4	1544								
B2416																				
B2418					27.4	122000	20.4	1405	28.3	172000	21.1	1981								
B2517																				
B2519					34.9	156000	26.0	1797	32.8	200000	24.4	2304								
B2619					44.8	200000	33.4	2304	42.6	260000	31.7	2995								
B2719																				

For all possible double stage reduction ratios, please refer to page 48.

Reduction Ratio	210 (35 x 6)				231 (21 x 11)				258 (43 x 6)				289 (17 x 17)				319 (29 x 11)			
Output RPM	6.95				6.32				5.66				5.05				4.58			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707					0.125	217	0.093	2.50					0.125	217	0.093	2.50	0.125	217	0.093	2.50
B0807					0.125	434	0.093	5.00					0.125	434	0.093	5.00	0.125	434	0.093	5.00
B0908	0.148	1130	0.110	13.0	0.143	1130	0.106	13.0	0.133	1130	0.099	13.0	0.128	1130	0.095	13.0	0.125	1130	0.093	13.0
B1008	0.280	2170	0.209	25.0	0.255	2170	0.190	25.0	0.225	2170	0.168	25.0	0.205	2170	0.153	25.0	0.185	2170	0.138	25.0
B1109	0.675	5200	0.504	59.9	0.615	5200	0.459	59.9	0.550	5200	0.410	59.9	0.490	5200	0.366	59.9	0.440	5200	0.328	59.9
B1310	1.01	7810	0.750	90.0	0.920	7810	0.686	90.0	0.820	7810	0.612	90.0	0.730	7810	0.545	90.0	0.665	7810	0.496	90.0
B1409	1.24	9550	0.921	110	1.12	9550	0.836	110	1.01	9550	0.750	110	0.895	9550	0.668	110	0.815	9550	0.608	110
B1611	2.02	15600	1.51	180	1.84	15600	1.37	180	1.64	15600	1.22	180	1.47	15600	1.09	180	1.33	15600	0.992	180
B1711	3.04	23400	2.26	270	2.76	23400	2.06	270	2.47	23400	1.84	270	2.21	23400	1.64	270	2.00	23400	1.49	270
B1813	4.50	34700	3.35	400	4.09	34700	3.05	400	3.66	34700	2.73	400	3.27	34700	2.44	400	2.97	34700	2.21	400
B1911	2.17	21000	1.62	242	1.96	21000	1.46	242	1.77	21000	1.32	242	1.58	21000	1.17	242	4.15	48600	3.09	560
B1913	8.05	62300	6.01	718	7.35	62500	5.48	720	6.58	62500	4.91	720	5.73	60800	4.27	700	5.30	62500	3.95	720
B2011																				
B2013									7.24	67700	5.40	780					5.85	68700	4.36	791
B2113																	6.99	82500	5.21	950
B2116					9.66	82500	7.20	950	9.51	89000	7.09	1025								
B2213																				
B2217					14.0	119000	10.4	1371	12.8	122000	9.55	1405					10.1	119000	7.56	1371
B2316									16.5	156000	12.3	1797					13.1	153000	9.74	1763
B2318					16.3	139000	12.1	1601												
B2416									20.0	187000	14.9	2154								
B2418					20.4	174000	15.2	2004									14.8	174000	11.0	2004
B2517									27.0	260000	20.1	2995								
B2519					29.2	248000	21.7	2857									21.1	248000	15.7	2857
B2619					35.6	304000	26.5	3502									28.4	334000	21.2	3848
B2719																				

NOTE: Hp ratings shown in the shaded area are to overcome the break-away torque requirements in high inertia or low temperature applications. Do not use those hp ratings as the basis of your selections. You should always size your applications based on output torque requirements. Please consult with factory.

Torque Rating - Double Reduction (102:1 ~ 7569:1)

1460 rpm (50 Hz x 4P)

Always apply appropriate service factor (s.f.) to your application requirement.

Reduction Ratio	354 (59 x 6)				385 (35 x 11)				435 (29 x 15)				473 (43 x 11)				493 (29 x 17)			
Output RPM	4.12				3.79				3.36				3.09				2.96			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707					0.125	217	0.093	2.50	0.063	109	0.047	1.25	0.125	217	0.093	2.50	0.125	217	0.093	2.50
B0807					0.125	434	0.093	5.00	0.063	217	0.047	2.50	0.125	434	0.093	5.00	0.125	434	0.093	5.00
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.165	2170	0.123	25.0	0.153	2170	0.114	25.0	0.143	2170	0.106	25.0	0.138	2170	0.103	25.0	0.133	2170	0.099	25.0
B1109	0.400	5200	0.298	59.9	0.365	5200	0.272	59.9	0.325	5200	0.242	59.9	0.300	5200	0.224	59.9	0.285	5200	0.213	59.9
B1310	0.600	7810	0.448	90.0	0.550	7810	0.410	90.0	0.490	7810	0.366	90.0	0.450	7810	0.336	90.0	0.430	7810	0.321	90.0
B1409	0.730	9550	0.545	110	0.675	9550	0.504	110	0.610	9550	0.455	110	0.580	9550	0.433	110	0.565	9550	0.421	110
B1611	1.20	15600	0.891	180	1.10	15600	0.821	180	0.975	15600	0.727	180	0.895	15600	0.668	180	0.855	15600	0.638	180
B1711	1.80	23400	1.34	270	1.66	23400	1.23	270	1.47	23400	1.09	270	1.35	23400	1.01	270	1.29	23400	0.962	270
B1813	2.67	34700	1.99	400	2.46	34700	1.83	400	2.17	34700	1.62	400	2.00	34700	1.49	400	1.92	34700	1.43	400
B1911	3.74	48600	2.79	560	3.44	48600	2.56	560	3.04	48600	2.26	560	2.80	48600	2.09	560	2.68	48600	2.00	560
B1913	4.77	62500	3.56	720	4.39	62500	3.27	720	3.90	62500	2.91	720	3.57	62500	2.66	720	3.43	62500	2.56	720
B2011																				
B2013	5.57	72900	4.15	840					4.29	68700	3.20	791	4.2	72900	3.11	840				
B2113	6.92	89000	5.16	1025					5.15	82500	3.84	950	5.5	95500	4.07	1100	4.52	82500	3.37	950
B2116																				
B2213									7.42	119000	5.54	1371	7.0	122000	5.22	1405	6.55	119000	4.89	1371
B2217	9.38	122000	6.99	1405																
B2316	12.0	156000	8.94	1797					9.55	153000	7.12	1763	9.0	156000	6.70	1797	8.40	153000	6.27	1763
B2318																				
B2416	14.5	187000	10.8	2154					10.9	174000	8.11	2004	10.5	187000	7.86	2154	9.56	174000	7.13	2004
B2418																				
B2517	18.1	235000	13.5	2707					15.5	248000	11.56	2857	14.9	260000	11.08	2995	13.7	248000	10.2	2857
B2519																				
B2619									20.9	334000	15.6	3848	21.9	382000	16.34	4401	18.4	334000	13.7	3848
B2719													29.8	521000	22.19	6002				

For all possible double stage reduction ratios, please refer to page 48.

Reduction Ratio	522 (87 x 6)				595 (35 x 17)				649 (59 x 11)				731 (43 x 17)				841 (29 x 29)			
Output RPM	2.80				2.45				2.25				2.00				1.74			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707					0.125	217	0.093	2.50					0.125	217	0.093	2.50	0.125	217	0.093	2.50
B0807					0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.133	2170	0.099	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0
B1109	0.275	5200	0.205	59.9	0.240	5200	0.179	59.9	0.215	5200	0.160	59.9	0.190	5200	0.142	59.9	0.165	5200	0.123	59.9
B1310	0.405	7810	0.302	90.0	0.355	7810	0.265	90.0	0.325	7810	0.242	90.0	0.300	7810	0.224	90.0	0.275	7810	0.205	90.0
B1409	0.550	9550	0.410	110	0.510	9550	0.380	110	0.490	9550	0.366	110	0.465	9550	0.347	110	0.435	9550	0.325	110
B1611	0.815	15600	0.608	180	0.715	15600	0.533	180	0.655	15600	0.489	180	0.600	15600	0.448	180	0.555	15600	0.414	180
B1711	1.22	23400	0.910	270	1.07	23400	0.798	270	0.980	23400	0.731	270	0.870	23400	0.649	270	0.760	23400	0.567	270
B1813	1.81	34700	1.35	400	1.59	34700	1.18	400	1.46	34700	1.09	400	1.29	34700	0.962	400	1.18	34700	0.877	400
B1911	2.53	48600	1.89	560	2.23	48600	1.66	560	2.61	62500	1.95	720	2.31	62500	1.72	720	2.01	62500	1.50	720
B1913	3.23	62500	2.41	720	2.84	62500	2.12	720												
B2011																				
B2013	3.57	68700	2.66	791					3.04	72900	2.27	840	2.69	72900	2.01	840	2.34	68700	1.74	791
B2113	4.27	82500	3.19	950.4					3.99	95500	2.97	1100	3.53	95500	2.63	1100	2.66	82500	1.98	950
B2116																				
B2213	5.67	109000	4.23	1256					5.11	122000	3.81	1405	4.52	122000	3.37	1405	3.84	119000	2.86	1371
B2217																				
B2316	7.20	139000	5.37	1601					6.55	156000	4.89	1797	5.80	156000	4.32	1797	4.94	153000	3.68	1763
B2318																				
B2416	9.90	191000	7.39	2200					7.72	186500	5.76	2148	7.43	200000	5.54	2304	5.60	174000	4.18	2004
B2418																				
B2517	12.9	248000	9.62	2857					10.8	260000	8.09	2995	9.59	260000	7.15	2995	8.00	248000	5.97	2857
B2519																				
B2619									14.9	361000	11.1	4159	14.2	382000	10.6	4401	10.8	334000	8.05	3848
B2719									21.8	521000	16.2	6002	19.3	521000	14.4	6002				

NOTE: Hp ratings shown in the shaded area are to overcome the break-away torque requirements in high inertia or low temperature applications. Do not use those hp ratings as the basis of your selections. You should always size your applications based on output torque requirements. Please consult with factory.

Torque Rating - Double Reduction (102:1 ~ 7569:1)

1460 rpm (50 Hz x 4P)

Always apply appropriate service factor (s.f.) to your application requirement.

Reduction Ratio	957 (87 x 11)				1003 (59 x 17)				1225 (35 x 35)				1247 (43 x 29)				1479 (87 x 17)			
Output RPM	1.53				1.46				1.19				1.17				0.99			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707									0.125	217	0.093	2.50	0.125	217	0.093	2.50				
B0807					0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00				
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0
B1109	0.153	5200	0.114	59.9	0.148	5200	0.110	59.9	0.133	5200	0.099	59.9	0.133	5200	0.099	59.9	0.125	5200	0.093	59.9
B1310	0.260	7810	0.194	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0
B1409	0.415	9550	0.310	110	0.405	9550	0.302	110	0.375	9550	0.280	110	0.375	9550	0.280	110	0.375	9550	0.280	110
B1611	0.515	15600	0.384	180	0.505	15600	0.377	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180
B1711	0.665	23400	0.496	270	0.635	23400	0.474	270	0.560	23400	0.418	270	0.555	23400	0.414	270	0.510	23400	0.380	270
B1813	1.10	34700	0.817	400	1.07	34700	0.794	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400
B1911	1.77	62500	1.32	720	1.68	62500	1.25	720	1.38	62500	1.029	720	1.35	62500	1.01	720	1.19	62500	0.884	720
B1913																				
B2011													2.00	72900	1.49	840	2.00	68700	1.49	791
B2013	2.18	68700	1.62	791	2.18	72900	1.62	840												
B2113	2.40	82500	1.79	950	2.54	89000	1.89	1025					2.24	95500	1.67	1100	2.00	82500	1.49	950
B2116																				
B2213	3.36	109000	2.51	1256	3.48	122000	2.60	1405					3.10	122000	2.31	1405	3.00	109000	2.24	1256
B2217																				
B2316	3.93	139000	2.93	1601	4.23	156000	3.15	1797					3.54	156000	2.64	1797	3.02	139000	2.25	1601
B2318																				
B2416	5.42	191000	4.04	2200	5.42	200000	4.04	2304					4.35	200000	3.25	2304	3.61	191000	2.69	2200
B2418																				
B2517	7.04	248000	5.25	2857	6.99	260000	5.21	2995					5.88	260000	4.38	2995	5.23	248000	3.90	2857
B2519																				
B2619	9.47	334000	7.06	3848	10.3	382000	7.69	4401					8.74	382000	6.52	4401	7.50	334000	5.60	3848
B2719					14.0	521000	10.4	6002					11.8	521000	8.77	6002				

For all possible double stage reduction ratios, please refer to page 48.

Reduction Ratio	1505 (43 x 35)				1711 (59 x 29)				1849 (43 x 43)				2065 (59 x 35)				2537 (59 x 43)			
Output RPM	0.97				0.85				0.79				0.71				0.58			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707	0.125	217	0.093	2.50	0.120	217	0.090	2.50	0.125	217	0.093	2.50	0.120	217	0.090	2.50	0.120	217	0.090	2.50
B0807	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0
B1109	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9
B1310	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0
B1409	0.375	9550	0.280	110	0.375	9550	0.280	110	0.375	9550	0.280	110	0.375	9525	0.280	110	0.375	9525	0.280	110
B1611	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180
B1711	0.505	23400	0.377	270	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270
B1813	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400
B1911	1.17	62500	0.873	720	1.09	62500	0.81	720	1.05	62500	0.783	720	1.00	62500	0.75	720	1.00	62500	0.746	720
B1913																				
B2011	2.00	72900	1.49	840	2.00	72900	1.492	840	2.0	72900	1.49	840	2.00	72900	1.49	840	2.00	72900	1.49	840
B2013																				
B2113	2.00	95500	1.49	1100	2.00	95500	1.49	1100	2.00	95500	1.49	1100	2.00	95500	1.49	1100	2.00	95500	1.49	1100
B2116																				
B2213	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405
B2217																				
B2316	3.19	156000	2.38	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797
B2318																				
B2416	3.67	200000	2.74	2304	3.41	200000	2.54	2304	3.27	200000	2.44	2304	3.08	200000	2.30	2304	3.00	200000	2.24	2304
B2418																				
B2517	5.30	260000	3.95	2995	5.00	260000	3.73	2995	5.0	260000	3.73	2995	5.00	260000	3.73	2995	5.00	260000	3.73	2995
B2519																				
B2619	7.90	382000	5.89	4401	7.50	382000	5.60	4401	7.5	382000	5.6	4401	7.50	382000	5.60	4401	7.50	382000	5.60	4401
B2719	10.6	521000	7.91	6002	10.0	521000	7.5	6002	10.0	521000	7.5	6002	10.0	521000	7.46	6002	10.0	521000	7.46	6002

NOTE: Hp ratings shown in the shaded area are to overcome the break-away torque requirements in high inertia or low temperature applications. Do not use those hp ratings as the basis of your selections. You should always size your applications based on output torque requirements. Please consult with factory.

Torque Rating - Double Reduction (102:1 ~ 7569:1)

1460 rpm (50 Hz x 4P)

Always apply appropriate service factor (s.f.) to your application requirement.

Reduction Ratio	3045 (87 x 35)				3481 (59 x 59)				3741 (87 x 43)				4437 (87 x 51)				5133 (87 x 59)			
Output RPM	0.48				0.42				0.39				0.33				0.28			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707																				
B0807																				
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0
B1109	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9
B1310	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0
B1409	0.375	9530	0.280	110	0.375	9530	0.280	110	0.375	9530	0.280	110	0.375	9530	0.280	110	0.375	9530	0.280	110
B1611	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180
B1711	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270
B1813	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400
B1911	1.00	62500	0.746	720	1.00	62500	0.746	720	1.00	62500	0.746	720	1.00	62500	0.746	720	1.00	62500	0.746	720
B1913																				
B2011	2.00	70800	1.49	816	2.00	72900	1.49	840	2.00	72900	1.49	840	2.00	72900	1.49	840	2.00	72900	1.49	840
B2013																				
B2113	2.00	82500	1.49	950	2.00	95500	1.49	1100	2.00	95500	1.49	1100	2.00	95500	1.49	1100	2.00	95500	1.49	1100
B2116																				
B2213	3.00	115500	2.24	1331	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405
B2217																				
B2316	3.00	147500	2.24	1699	3.00	156000	2.24	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797
B2318																				
B2416	3.00	191000	2.24	2200	3.00	200000	2.24	2304	3.00	200000	2.24	2304	3.00	200000	2.24	2304	3.00	200000	2.24	2304
B2418																				
B2517	5.00	248000	3.73	2857	5.00	260000	3.73	2995	5.00	260000	3.73	2995	5.00	260000	3.73	2995	5.00	260000	3.73	2995
B2519																				
B2619	7.50	334000	5.60	3848	7.50	382000	5.60	4401	7.50	382000	5.60	4401	7.50	382000	5.60	4401	7.50	382000	5.60	4401
B2719					10.0	521000	7.46	6002	10.0	521000	7.46	6002	10.0	521000	7.46	6002	10.0	521000	7.46	6002

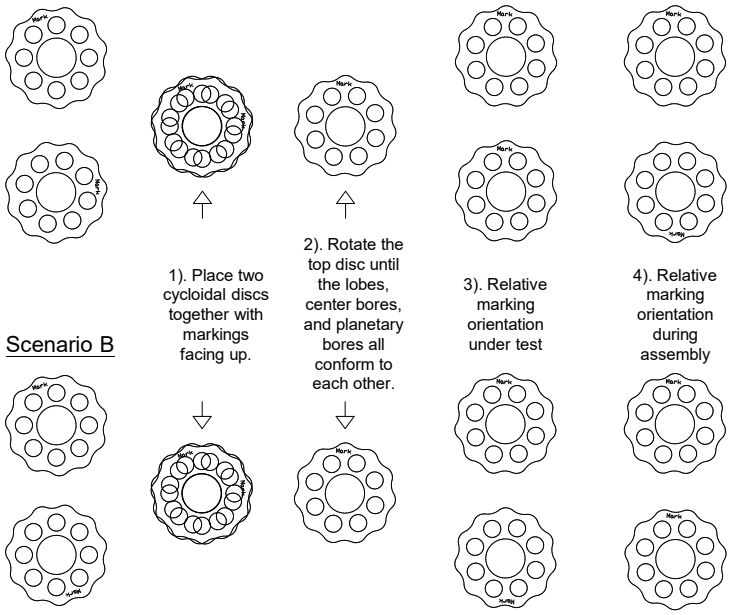
Reduction Ratio	6177 (87 x 71)				7569 (87 x 87)			
Output RPM	0.24				0.19			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707								
B0807								
B0908								
B1008								
B1109	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9
B1310	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0
B1409	0.375	9530	0.280	110	0.375	9530	0.280	110
B1611	0.500	15600	0.373	180	0.500	15600	0.373	180
B1711	0.500	23400	0.373	270	0.500	23400	0.373	270
B1813	1.00	34700	0.746	400	1.00	34700	0.746	400
B1911	1.00	62500	0.746	720	1.00	62500	0.746	720
B1913								
B2011	2.00	68700	1.49	791	1.50	68700	1.12	791
B2013								
B2113	2.00	82500	1.49	950	2.00	82500	1.49	950
B2116								
B2213	3.00	109000	2.24	1256	3.00	109000	2.24	1256
B2217								
B2316	3.00	139000	2.24	1601	3.00	139000	2.24	1601
B2318								
B2416	3.00	191000	2.24	2200	3.00	191000	2.24	2200
B2418								
B2517	5.00	248000	3.73	2857	5.00	248000	3.73	2857
B2519								
B2619	7.50	334000	5.60	3848	7.50	334000	5.60	3848
B2719								

DO YOU KNOW .....

Frame size B10 and above are equipped with two cycloidal discs. Those two discs are offset with each other by 180°. The reducers are dynamically balanced during operation. When assembling reducers of the above frame sizes, the two cycloidal discs have to be put in correctly relative to each other in order to ensure a successful assembly. The following rules will assure you the correct assembly.

Scenario A

Scenario B



1). Place two cycloidal discs together with markings facing up.

2). Rotate the top disc until the lobes, center bores, and planetary bores all conform to each other.

3). Relative marking orientation under test

4). Relative marking orientation during assembly

Torque Rating - Double Reduction (102:1 ~ 7569:1)

1165 rpm (60 Hz x 6P)

Always apply appropriate service factor (s.f.) to your application requirement.

Reduction Ratio	102 (17 x 6)				121 (11 x 11)				165 (15 x 11)				174 (29 x 6)				187 (17 x 11)			
Output RPM	11.4				9.6				7.06				6.70				6.23			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707					0.125	217	0.093	2.50	0.125	217	0.093	2.50					0.125	217	0.093	2.50
B0807					0.125	434	0.093	5.00	0.125	434	0.093	5.00					0.125	434	0.093	5.00
B0908	0.240	1130	0.179	13.0	0.200	1130	0.149	13.0	0.150	1130	0.112	13.0	0.140	1130	0.104	13.0	0.130	1130	0.097	13.0
B1008	0.460	2170	0.343	25.0	0.390	2170	0.291	25.0	0.280	2170	0.209	25.0	0.270	2170	0.201	25.0	0.250	2170	0.187	25.0
B1109	1.11	5200	0.828	59.9	0.930	5200	0.694	59.9	0.680	5200	0.507	59.9	0.650	5200	0.485	59.9	0.600	5200	0.448	59.9
B1310	1.65	7810	1.23	90.0	1.39	7810	1.04	90.0	1.02	7810	0.761	90.0	0.970	7810	0.724	90.0	0.900	7810	0.671	90.0
B1409									1.25	9550	0.933	110	1.19	9550	0.888	110	1.10	9550	0.821	110
B1611	3.30	15600	2.46	180	2.79	15600	2.08	180	2.04	15600	1.52	180	1.94	15600	1.45	180	1.80	15600	1.34	180
B1711	4.99	23400	3.72	270	3.89	21700	2.90	250	3.09	23400	2.31	270	2.93	23400	2.19	270	2.72	23400	2.03	270
B1813	7.39	34700	5.51	400	5.13	28600	3.83	329	4.57	34700	3.41	400	4.33	34700	3.23	400	4.03	34700	3.01	400
B1911													5.24	41900	3.91	483	4.87	41900	3.63	483
B1913	12.9	60800	9.62	700	8.72	48600	6.51	560	7.77	59000	5.80	680	7.80	62500	5.82	720	7.06	60800	5.27	700
B2011																				
B2013									8.50	64900	6.34	748	8.53	68700	6.36	791				
B2113																				
B2116					11.1	62500	8.28	720	10.5	80200	7.83	924	10.2	82500	7.61	950				
B2213																				
B2217					14.7	82500	11.0	950	13.7	105000	10.2	1210	14.8	119000	11.0	1371				
B2316													19.0	153000	14.2	1763				
B2318					17.1	95500	12.8	1100	17.5	134000	13.1	1544								
B2416																				
B2418					21.8	122000	16.3	1405	22.5	172000	16.8	1981								
B2517																				
B2519					27.9	156000	20.8	1797	26.2	200000	19.5	2304								
B2619					35.7	200000	26.6	2304	34.0	260000	25.4	2995								
B2719																				

For all possible double stage reduction ratios, please refer to page 48.

Reduction Ratio	210 (35 x 6)				231 (21 x 11)				258 (43 x 6)				289 (17 x 17)				319 (29 x 11)			
Output RPM	5.55				5.04				4.52				4.03				3.65			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707					0.125	217	0.093	2.50					0.125	217	0.093	2.50	0.125	217	0.093	2.50
B0807					0.125	434	0.093	5.00					0.125	434	0.093	5.00	0.125	434	0.093	5.00
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.220	2170	0.164	25.0	0.200	2170	0.149	25.0	0.180	2170	0.134	25.0	0.160	2170	0.119	25.0	0.150	2170	0.112	25.0
B1109	0.540	5200	0.403	59.9	0.490	5200	0.366	59.9	0.440	5200	0.328	59.9	0.390	5200	0.291	59.9	0.350	5200	0.261	59.9
B1310	0.800	7810	0.597	90.0	0.730	7810	0.545	90.0	0.650	7810	0.485	90.0	0.580	7810	0.433	90.0	0.530	7810	0.395	90.0
B1409	0.990	9550	0.739	110	0.890	9550	0.664	110	0.800	9550	0.597	110	0.710	9550	0.530	110	0.650	9550	0.485	110
B1611	1.61	15600	1.20	180	1.46	15600	1.09	180	1.31	15600	0.977	180	1.17	15600	0.873	180	1.06	15600	0.791	180
B1711	2.43	23400	1.81	270	2.20	23400	1.64	270	1.97	23400	1.47	270	1.76	23400	1.31	270	1.60	23400	1.19	270
B1813	3.59	34700	2.68	400	3.27	34700	2.44	400	2.92	34700	2.18	400	2.61	34700	1.95	400	2.37	34700	1.77	400
B1911	4.34	41900	3.24	483	3.92	41900	2.92	483	3.53	41900	2.63	483	3.15	41900	2.35	483	3.31	48600	2.47	560
B1913	6.46	62500	4.82	720	5.87	62500	4.38	720	5.26	62500	3.92	720	4.57	60800	3.41	700	4.23	62500	3.16	720
B2011																				
B2013									5.24	62500	3.91	720					4.65	68700	3.47	791
B2113																	5.58	82500	4.16	950
B2116					7.71	82500	5.75	950	6.91	82500	5.15	950								
B2213																				
B2217					11.1	119000	8.28	1371	10.2	122000	7.61	1405					8.06	119000	6.01	1371
B2316									13.2	156000	9.85	1797					10.4	153000	7.76	1763
B2318					13.0	139000	9.70	1601												
B2416									14.7	174000	11.0	2004								
B2418					16.3	174000	12.2	2004									11.8	174000	8.80	2004
B2517									16.8	260000	12.5	2995								
B2519					23.2	248000	17.3	2857									16.8	248000	12.53	2857
B2619					28.4	304000	21.2	3502									22.6	334000	16.86	3848
B2719																				

NOTE: Hp ratings shown in the shaded area are to overcome the break-away torque requirements in high inertia or low temperature applications. Do not use those hp ratings as the basis of your selections. You should always size your applications based on output torque requirements. Please consult with factory.

Torque Rating - Double Reduction (102:1 ~ 7569:1)

1165 rpm (60 Hz x 6P)

Always apply appropriate service factor (s.f.) to your application requirement.

Reduction Ratio	354 (59 x 6)				385 (35 x 11)				435 (29 x 15)				473 (43 x 11)				493 (29 x 17)			
Output RPM	3.29				3.03				2.68				2.46				2.36			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707					0.125	217	0.093	2.50					0.125	217	0.093	2.50	0.125	217	0.093	2.50
B0807					0.125	434	0.093	5.00					0.125	434	0.093	5.00	0.125	434	0.093	5.00
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.130	2170	0.097	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0
B1109	0.320	5200	0.239	59.9	0.290	5200	0.216	59.9	0.260	5200	0.194	59.9	0.240	5200	0.179	59.9	0.230	5200	0.172	59.9
B1310	0.480	7810	0.358	90.0	0.440	7810	0.328	90.0	0.390	7810	0.291	90.0	0.360	7810	0.269	90.0	0.340	7810	0.254	90.0
B1409	0.580	9550	0.433	110	0.540	9550	0.403	110	0.500	9550	0.373	110	0.500	9550	0.373	110	0.500	9550	0.373	110
B1611	0.950	15600	0.709	180	0.880	15600	0.656	180	0.780	15600	0.582	180	0.710	15600	0.530	180	0.680	15600	0.507	180
B1711	1.44	23400	1.07	270	1.32	23400	0.985	270	1.17	23400	0.873	270	1.08	23400	0.806	270	1.03	23400	0.768	270
B1813	2.13	34700	1.59	400	1.96	34700	1.46	400	1.73	34700	1.29	400	1.60	34700	1.19	400	1.53	34700	1.14	400
B1911	2.99	48600	2.23	560	2.75	48600	2.05	560	2.42	48600	1.81	560	2.23	48600	1.66	560	2.14	48600	1.60	560
B1913	3.81	62500	2.84	720	3.51	62500	2.62	720	3.11	62500	2.32	720	2.85	62500	2.13	720	2.74	62500	2.04	720
B2011																				
B2013	4.45	72900	3.32	840					3.41	68700	2.54	791	3.33	72900	2.48	840	3.01	68700	2.25	791
B2113	5.03	82500	3.75	950					4.10	82500	3.06	950	4.36	95500	3.25	1100	3.61	82500	2.69	950
B2116																				
B2213									5.91	119000	4.41	1371	5.57	122000	4.16	1405	5.21	119000	3.89	1371
B2217	7.45	122000	5.56	1405																
B2316	9.58	156000	7.15	1797					7.60	153000	5.67	1763	7.16	156000	5.34	1797	6.70	153000	5.00	1763
B2318																				
B2416	10.6	174000	7.91	2004					8.65	174000	6.45	2004	9.18	200000	6.85	2304	7.61	174000	5.68	2004
B2418																				
B2517	12.2	260000	9.10	2995					12.4	248000	9.25	2857	11.9	260000	8.88	2995	10.9	248000	8.13	2857
B2519																				
B2619									16.7	334000	12.5	3848	17.4	382000	13.0	4401	14.6	334000	10.89	3848
B2719													23.8	521000	17.8	6002				

For all possible double stage reduction ratios, please refer to page 48.

Reduction Ratio	522 (87 x 6)				595 (35 x 17)				649 (59 x 11)				731 (43 x 17)				841 (29 x 29)			
Output RPM	2.23				1.96				1.80				1.59				1.39			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707					0.125	217	0.093	2.50					0.125	217	0.093	2.50	0.125	217	0.093	2.50
B0807					0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0
B1109	0.220	5200	0.164	59.9	0.190	5200	0.142	59.9	0.170	5200	0.127	59.9	0.150	5200	0.112	59.9	0.130	5200	0.097	59.9
B1310	0.320	7810	0.239	90.0	0.280	7810	0.209	90.0	0.260	7810	0.194	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0
B1409	0.500	9550	0.373	110	0.500	9550	0.373	110	0.500	9550	0.373	110	0.500	9550	0.373	110	0.500	9550	0.373	110
B1611	0.650	15600	0.485	180	0.570	15600	0.425	180	0.520	15600	0.388	180	0.500	15600	0.373	180	0.500	15600	0.373	180
B1711	0.980	23400	0.731	270	0.860	23400	0.642	270	0.780	23400	0.582	270	0.700	23400	0.522	270	0.610	23400	0.455	270
B1813	1.45	34700	1.08	400	1.27	34700	0.947	400	1.16	34700	0.865	400	1.03	34700	0.768	400	1.00	34700	0.746	400
B1911	2.02	48600	1.51	560	1.78	48600	1.33	560	2.09	62500	1.56	720	1.84	62500	1.37	720	1.61	62500	1.20	720
B1913	2.58	62500	1.92	720	2.27	62500	1.69	720												
B2011																				
B2013	2.84	68700	2.12	791					2.43	72900	1.81	840	2.15	72900	1.60	840	2.00	68700	1.49	791
B2113	3.41	82500	2.54	950					3.19	95500	2.38	1100	2.82	95500	2.10	1100	2.13	82500	1.59	950
B2116																				
B2213	4.51	109000	3.36	1256					4.06	122000	3.03	1405	3.60	122000	2.69	1405	3.06	119000	2.28	1371
B2217																				
B2316	5.75	139000	4.29	1601					5.24	156000	3.91	1797	4.63	156000	3.45	1797	3.93	153000	2.93	1763
B2318																				
B2416	7.90	191000	5.89	2200					6.72	200000	5.01	2304	5.94	200000	4.43	2304	4.49	174000	3.35	2004
B2418																				
B2517	10.3	248000	7.68	2857					8.68	260000	6.48	2995	7.67	260000	5.72	2995	6.37	248000	4.75	2857
B2519																				
B2619									12.7	382000	9.47	4401	11.3	382000	8.43	4401	8.58	334000	6.40	3848
B2719									17.4	521000	12.98	6002	15.4	521000	11.5	6002				

NOTE: Hp ratings shown in the shaded area are to overcome the break-away torque requirements in high inertia or low temperature applications. Do not use those hp ratings as the basis of your selections. You should always size your applications based on output torque requirements. Please consult with factory.

Torque Rating - Double Reduction (102:1 ~ 7569:1)

1165 rpm (60 Hz x 6P)

Always apply appropriate service factor (s.f.) to your application requirement.

Reduction Ratio	957 (87 x 11)				1003 (59 x 17)				1225 (35 x 35)				1247 (43 x 29)				1479 (87 x 17)			
Output RPM	1.22				1.16				0.95				0.93				0.79			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707									0.125	217	0.093	2.50	0.125	217	0.093	2.50				
B0807					0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00				
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0
B1109	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9
B1310	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0
B1409	0.500	9550	0.373	110	0.500	9550	0.373	110	0.500	9550	0.373	110	0.500	9550	0.373	110	0.500	9550	0.373	110
B1611	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180
B1711	0.530	23400	0.395	270	0.510	23400	0.380	270	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270
B1813	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400
B1911	1.41	62500	1.05	720	1.34	62500	1.00	720	1.10	62500	0.821	720	1.08	62500	0.806	720	1.00	62500	0.75	720
B1913																				
B2011													2.00	72900	1.49	840	2.00	68700	1.492	791
B2013	2.00	68700	1.49	791	2.00	72900	1.49	840												
B2113	2.00	82500	1.49	950	2.00	82500	1.49	950					2.00	95500	1.49	1100	2.00	82500	1.49	950
B2116																				
B2213	3.00	109000	2.24	1256	3.00	122000	2.24	1405					3.00	122000	2.24	1405	3.00	109000	2.24	1256
B2217																				
B2316	3.14	139000	2.34	1601	3.38	156000	2.52	1797					3.00	156000	2.24	1797	3.00	139000	2.24	1601
B2318																				
B2416	4.31	191000	3.22	2200	4.33	200000	3.23	2304					3.47	200000	2.59	2304	3.00	191000	2.24	2200
B2418																				
B2517	5.60	248000	4.18	2857	5.59	260000	4.17	2995					5.00	260000	3.73	2995	5.00	248000	3.73	2857
B2519																				
B2619	7.54	334000	5.62	3848	8.23	382000	6.14	4401					7.50	382000	5.60	4401	7.50	334000	5.60	3848
B2719					11.2	521000	8.36	6002					10.0	521000	7.46	6002				

For all possible double stage reduction ratios, please refer to page 48.

Reduction Ratio	1505 (43 x 35)				1711 (59 x 29)				1849 (43 x 43)				2065 (59 x 35)				2537 (59 x 43)			
Output RPM	0.77				0.68				0.63				0.56				0.46			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707	0.125	217	0.093	2.50					0.125	217	0.093	2.50								
B0807	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00	0.125	434	0.093	5.00
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0
B1109	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9
B1310	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0
B1409	0.500	9550	0.373	110	0.500	9550	0.373	110	0.500	9550	0.373	110	0.500	9500	0.373	109	0.500	9500	0.373	109
B1611	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180
B1711	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270
B1813	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400
B1911	1.00	62500	0.746	720	1.00	62500	0.746	720	1.00	62500	0.746	720	1.00	62500	0.746	720	1.00	62500	0.746	720
B1913																				
B2011	2.00	72900	1.49	839.8	2.00	72900	1.49	840	2.00	72900	1.49	840	2.00	72900	1.49	840	2.00	72900	1.49	840
B2013																				
B2113	2.00	95500	1.49	1100	2.00	95500	1.49	1100	2.00	95500	1.49	1100	2.00	95500	1.49	1100	2.00	95500	1.49	1100
B2116																				
B2213	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405
B2217																				
B2316	3.00	156000	2.24	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797
B2318																				
B2416	3.00	200000	2.24	2304	3.00	200000	2.24	2304	3.00	200000	2.24	2304	3.00	200000	2.24	2304	3.00	200000	2.24	2304
B2418																				
B2517	5.00	260000	3.73	2995	5.00	260000	3.73	2995	5.00	260000	3.73	2995	5.00	260000	3.73	2995	5.00	260000	3.73	2995
B2519																				
B2619	7.50	382000	5.60	4401	7.50	382000	5.60	4401	7.50	382000	5.60	4401	7.50	382000	5.60	4401	7.50	382000	5.60	4401
B2719	10.0	521000	7.46	6002	10.0	521000	7.46	6002	10.0	521000	7.46	6002	10.0	521000	7.46	6002	10.0	521000	7.46	6002

NOTE: Hp ratings shown in the shaded area are to overcome the break-away torque requirements in high inertia or low temperature applications. Do not use those hp ratings as the basis of your selections. You should always size your applications based on output torque requirements. Please consult with factory.

Torque Rating - Double Reduction (102:1 ~ 7569:1)

1165 rpm (60 Hz x 6P)

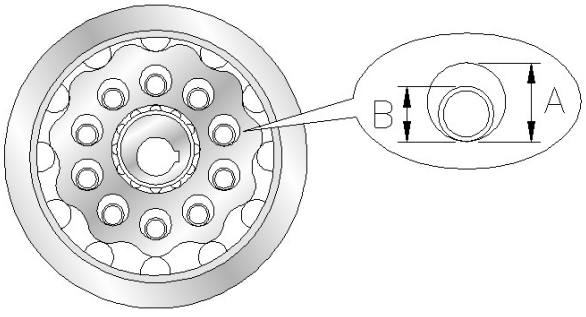
Always apply appropriate service factor (s.f.) to your application requirement.

Reduction Ratio	3045 (87 x 35)				3481 (59 x 59)				3741 (87 x 43)				4437 (87 x 51)				5133 (87 x 59)			
Output RPM	0.38				0.33				0.31				0.26				0.23			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707																				
B0807																				
B0908	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0	0.125	1130	0.093	13.0
B1008	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0	0.125	2170	0.093	25.0
B1109	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9
B1310	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0
B1409	0.500	9500	0.373	109	0.500	9500	0.373	109	0.500	9500	0.373	109	0.500	9500	0.373	109	0.500	9500	0.373	109
B1611	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180	0.500	15600	0.373	180
B1711	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270	0.500	23400	0.373	270
B1813	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400	1.00	34700	0.746	400
B1911	1.00	62500	0.746	720	1.00	62500	0.746	720	1.00	62500	0.746	720	1.00	62500	0.746	720	1.00	62500	0.746	720
B1913																				
B2011	2.00	68700	1.49	791.4	2.00	72900	1.49	840	2.00	72900	1.49	840	2.00	72900	1.49	840	2.00	72900	1.49	840
B2013																				
B2113	2.00	82500	1.49	950	2.00	95500	1.49	1100	2.00	95500	1.49	1100	2.00	95500	1.49	1100	2.00	95500	1.49	1100
B2116																				
B2213	3.00	109000	2.24	1256	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405	3.00	122000	2.24	1405
B2217																				
B2316	3.00	139000	2.24	1601	3.00	156000	2.24	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797	3.00	156000	2.24	1797
B2318																				
B2416	3.00	191000	2.24	2200	3.00	200000	2.24	2304	3.00	200000	2.24	2304	3.00	200000	2.24	2304	3.00	200000	2.24	2304
B2418																				
B2517	5.00	248000	3.73	2857	5.00	260000	3.73	2995	5.00	260000	3.73	2995	5.00	260000	3.73	2995	5.00	260000	3.73	2995
B2519																				
B2619	7.50	334000	5.60	3848	7.50	382000	5.60	4401	7.50	382000	5.60	4401	7.50	382000	5.60	4401	7.50	382000	5.60	4401
B2719					10.0	521000	7.46	6002	10.0	521000	7.46	6002	10.0	521000	7.46	6002	10.0	521000	7.46	6002

Reduction Ratio	6177 (87 x 71)				7569 (87 x 87)			
Output RPM	0.19				0.15			
DARALI Frame Size	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)	Input Power (hp)	Output Torque (in-lb)	Input Power (kW)	Output Torque (kg-m)
B0707								
B0807								
B0908								
B1008								
B1109	0.125	5200	0.093	59.9	0.125	5200	0.093	59.9
B1310	0.250	7810	0.187	90.0	0.250	7810	0.187	90.0
B1409	0.500	9500	0.373	109	0.500	9500	0.373	109
B1611	0.500	15600	0.373	180	0.500	15600	0.373	180
B1711	0.500	23400	0.373	270	0.500	23400	0.373	270
B1813	1.00	34700	0.746	400	1.00	34700	0.746	400
B1911	1.00	62500	0.746	720	1.00	62500	0.746	720
B1913								
B2011	2.00	68700	1.49	791	1.00	68700	0.746	791
B2013								
B2113	2.00	82500	1.49	950	2.00	82500	1.49	950
B2116								
B2213	3.00	109000	2.24	1256	3.00	109000	2.24	1256
B2217								
B2316	3.00	139000	2.24	1601	3.00	139000	2.24	1601
B2318								
B2416	3.00	191000	2.24	2200	3.00	191000	2.24	2200
B2418								
B2517	5.00	248000	3.73	2857	5.00	248000	3.73	2857
B2519								
B2619	7.50	334000	5.60	3848	7.50	334000	5.60	3848
B2719								

DO YOU KNOW .....

Eccentric bearings from different ratios of the same frame size may be interchangeable if they have the **SAME ECCENTRICITY**. To determine eccentricity, measure the dimensions as shown below:



Eccentricity = (A-B) / 2

A = Diameter of the holes around the cycloidal disc.

B = Outside diameter of the output shaft rollers.

Overhung Load (OHL)

For applications using chain, belt, or pinion connection, please make sure the overhung load exerted on input and output shafts do not exceed the permissible values. This would prevent the reduction in service life caused by bearing damage.

▸ **Overhung load (lbs) can be calculated using the following formula: (English)**
Overhung Load Fr in lbs:

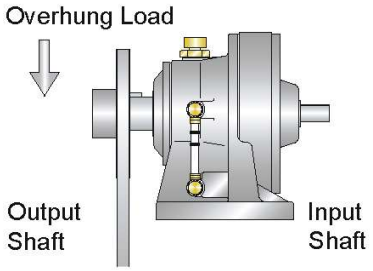
$$Fr = \frac{126{,}000 \times hp \times Fl \times Fc \times Fs}{\Phi_{\text{sprocket pitch in inch}} \times rpm} \leq Fro$$

▸ **Overhung load (kgs) can be calculated using the following formula: (Metric)**
Overhung Load Fr in kgs:

$$Fr = \frac{1{,}451{,}691 \times hp \times Fl \times Fc \times Fs}{\Phi_{\text{sprocket pitch in mm}} \times rpm} \leq Fro$$

Calculated OHL must NOT be greater than the allowable OHL

Fr: Actual Overhung Load (lbs or kgs)
Fro: Permissible Overhung Load (lbs or kgs)
Fc: Connection Coefficient
Fs: Load Nature Coefficient
Fl: Load Position Coefficient
rpm: RPM of Output Shaft



Connection Coefficient - Fc

Connection Type	Fc
Chain	1
Gear or Pinion	1.25
V-Belt	1.5
Flat-Belt	2.5

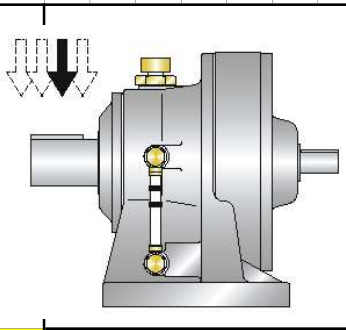
Load Nature Coefficient - Fs

Load Nature	Fs
Uniform	1
Moderate Shock	1 ~ 1.2
Heavy Shock	1.4 ~ 1.6

▸ If application overhung load is greater than Fro, select a larger frame size with Fro greater than the overhung load.
▸ For high frequency start/stop applications, use larger service factor (SF).
▸ Please consult factory for any special application.

Output Shaft Load Position Coefficient (Fl)

Frame Size		Distance From Oil Seal (inch)																					
Single Reduction	Double Reduction	0.25	0.5	0.75	1.0	1.25	1.5	1.75	2.0	2.5	3.0	3.5	4.0	4.5	5	6	7	8	9	10	11	12	
		Distance From Oil Seal (mm)																					
6:1~87:1	88:1~7569:1	6	13	19	25	32	38	44	51	64	76	89	102	114	127	152	178	203	229	254	279	305	
B07	B0707	0.83	1.07	1.56																			
B08	B0807	0.82	0.96	1.29	1.59	1.88																	
B09	B0908	0.86	0.97	1.08	1.19	1.30	1.41	1.52	1.64														
B10	B1008	0.86	0.97	1.08	1.19	1.30	1.41	1.52	1.64														
B11	B1109		0.85	0.92	0.97	1.08	1.34	1.59	1.76														
B12	-		0.85	0.92	0.97	1.08	1.34	1.59	1.76														
B13	B1310			0.87	0.92	0.96	1.07	1.25	1.38	1.75													
B14	B1409			0.66	0.73	0.80	0.90	1.00	1.10	1.40	1.60	1.90											
B15	-			0.66	0.73	0.80	0.90	1.00	1.10	1.40	1.60	1.90											
B16	B1611			0.83	0.87	0.90	0.95	1.00	1.11	1.42	1.64	1.96											
B17	B1711			0.86	0.89	0.92	0.96	1.00	1.11	1.42	1.64	1.96											
B18	B1813				0.85	0.87	0.92	0.95	0.98	1.17	1.35	1.60	1.78										
B19	B1911 B1913					0.85	0.88	0.91	0.93	1.00	1.11	1.32	1.46	1.70									
B20	B2011 B2013							0.74	0.77	0.87	0.95	1.05	1.12	1.23	1.32	1.47							
B21	B2113 B2116							0.73	0.77	0.87	0.95	1.05	1.13	1.24	1.33	1.49							
B22	B2213 B2217							0.88	0.90	0.94	0.98	1.02	1.06	1.11	1.17	1.18							
B23	B2316 B2318							0.84	0.85	0.89	0.93	0.97	1.00	1.05	1.11	1.15	1.24	1.30					
B24	B2416 B2418							0.84	0.86	0.90	0.93	0.97	1.00	1.05	1.11	1.14	1.23	1.29					
B25	B2517 B2519								0.83	0.86	0.89	0.93	0.95	0.99	1.04	1.08	1.22	1.36	1.52	1.69			
B26	B2619										0.84	0.88	0.90	0.93	0.97	1.01	1.17	1.29	1.45	1.61	1.77	1.93	
B27	B2719											0.71	0.75	0.80	0.88	0.94	1.09	1.21	1.35	1.50	1.65	1.79	



If overhung load acts on the mid-point of output shaft, Fl = 1

Overhung Load (OHL)

Permissible Output Shaft Overhung Load - Fro (lbs)

Frame Size		Output RPM																				
Single Reduction	Double Reduction	~1	2	3	4	5	10	15	20	25	30	35	40	50	60	80	100	125	150	200	250	300
B07	B0707	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	245	229	216	196		
B08	B0807	397	397	397	397	397	397	397	397	397	397	397	397	397	397	397	397	388	366	333	309	289
B09	B0908	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	730	686	624	580	547
B10	B1008	1213	1213	1213	1213	1213	1213	1213	1213	1213	1213	1213	1213	1213	1213	1213	1213	1149	1080	981	913	858
B11	B1109	1940	1940	1940	1940	1940	1940	1940	1940	1940	1940	1940	1940	1940	1840	1670	1550	1440	1350	1230	1140	1080
B12	-	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2100	1950	1850	1680	1560	1450	1370	1240	1150	1080
B13	B1310	3310	3310	3310	3310	3310	3310	3310	3090	2870	2700	2560	2450	2270	2140	1940	1810	1680	1580	1430	1330	1250
B14	B1409	3600	3600	3600	3600	3600	3600	3500	3310	3310	3310	3220	3090	2890	2730	2510	2340	2190	2070	1903	1781	1684
B15	-	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3530	3370	3200	2930	2730	2560	2430	2230	2070	1960
B16	B1611	4960	4960	4960	4960	4960	4960	4830	4410	4410	4370	4140	3970	3700	3480	3150	2930	2710	2560	2310	2150	2030
B17	B1711	6630	6630	6630	6630	6630	6630	6510	5920	5490	5170	4910	4700	4360	4100	3730	3460	3210	3020	2750	2550	2400
B18	B1813	9380	9380	9380	9380	9380	9380	8750	7950	7380	6940	6600	6310	5860	5510	5010	4650	4320	4060	3690		
B19	B1911 B1913	13250	13250	13250	13250	13250	13250	12200	11100	10300	9710	9230	8830	8190	7710	7000	6500	6040	5680	5160		
B20	B2011 B2013	18900	18900	18900	18900	18900	18900	18900	18900	18800	17800	17000	16300	15200	14400	13200	12400	11600	11000	10100		
B21	B2113 B2116	23400	23400	23400	23400	23400	23400	22200	20300	19000	18000	17200	16500	15500	14600	13400	12600	11700	11100	10200		
B22	B2213 B2217	27300	27300	27300	27300	27300	26400	23300	21400	20000	19000	18100	17400	16300	15400	14100	13200	12400	11700	10700		
B23	B2316 B2318	34000	34000	34000	34000	34000	32900	29100	26700	24900	23600	22500	21700	20300	19200	17600	16500	15400				
B24	B2416 B2418	37700	37700	37700	37700	37700	34500	32400	29700	27800	26300	25100	24100	22600	21400	19600	18300	17100				
B25	B2517 B2519	46300	46300	46300	46300	46300	44700	39600	36300	34000	32200	30700	29500	27600	26100	24000	22400	21000				
B26	B2619	56400	56400	56400	56400	56400	54600	48300	44300	41500	39300	37500	36000	33700	31900	29300	27400	25600				
B27	B2719	55700	55700	55700	55700	55700	55700	55700	55700	55700	55700											

Values above are for condition of Fc, Fs, Fl = 1

Permissible Output Shaft Overhung Load - Fro (kgs)

Frame Size		Output RPM																				
Single Reduction	Double Reduction	~1	2	3	4	5	10	15	20	25	30	35	40	50	60	80	100	125	150	200	250	300
B07	B0707	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	111	104	98	89		
B08	B0807	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	176	166	151	140	131
B09	B0908	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	331	311	283	263	248
B10	B1008	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	521	490	445	414	389
B11	B1109	880	880	880	880	880	880	880	880	880	880	880	880	880	835	758	703	653	612	558	517	490
B12	-	998	998	998	998	998	998	998	998	998	998	998	953	885	839	762	708	658	621	562	522	490
B13	B1310	1501	1501	1501	1501	1501	1501	1501	1402	1302	1225	1161	1111	1030	971	880	821	762	717	649	603	567
B14	B1409	1633	1633	1633	1633	1633	1633	1588	1501	1501	1501	1461	1402	1311	1238	1139	1061	993	939	863	808	764
B15	-	1633	1633	1633	1633	1633	1633	1633	1633	1633	1633	1633	1601	1529	1452	1329	1238	1161	1102	1012	939	889
B16	B1611	2250	2250	2250	2250	2250	2250	2191	2000	2000	1982	1878	1801	1678	1579	1429	1329	1229	1161	1048	975	921
B17	B1711	3007	3007	3007	3007	3007	3007	2953	2685	2490	2345	2227	2132	1978	1860	1692	1569	1456	1370	1247	1157	1089
B18	B1813	4255	4255	4255	4255	4255	4255	3969	3606	3348	3148	2994	2862	2658	2499	2273	2109	1960	1842	1674		
B19	B1911 B1913	6010	6010	6010	6010	6010	6010	5534	5035	4672	4404	4187	4005	3715	3497	3175	2948	2740	2576	2341		
B20	B2011 B2013	8573	8573	8573	8573	8573	8573	8573	8573	8528	8074	7711	7394	6895	6532	5987	5625	5262	4990	4581		
B21	B2113 B2116	10614	10614	10614	10614	10614	10614	10070	9208	8618	8165	7802	7484	7031	6623	6078	5715	5307	5035	4627		
B22	B2213 B2217	12383	12383	12383	12383	12383	11975	10569	9707	9072	8618	8210	7893	7394	6985	6396	5987	5625	5307	4853		
B23	B2316 B2318	15422	15422	15422	15422	15422	14923	13200	12111	11295	10705	10206	9843	9208	8709	7983	7484	6985				
B24	B2416 B2418	17101	17101	17101	17101	17101	15649	14697	13472	12610	11930	11385	10932	10251	9707	8891	8301	7757				
B25	B2517 B2519	21002	21002	21002	21002	21002	20276	17962	16466	15422	14606	13925	13381	12519	11839	10886	10161	9526				
B26	B2619	25583	25583	25583	25583	25583	24766	21909	20094	18824	17826	17010	16329	15286	14470	13290	12429	11612				
B27	B2719	25265	25265	25265	25265	25265	25265	25265	25265	25265	25265											

Values above are for condition of Fc, Fs, Fl = 1

Overhung Load (OHL)

Permissible Output Shaft Overhung Load - Fro (lbs)

(Ductile Iron Housing w/ High Capacity Double-Row Spherical Roller Bearing)

Frame Size		Output RPM															
Single Reduction	Double Reduction	~10	15	20	25	30	35	40	50	60	80	100	125	150	200	250	300
B13	B1310	4420	4420	4420	4420	4240	4050	3910	3640	3440	3170	2980	2780	2620	2410	2250	2130
B16	B1611	6620	6620	6620	6620	6620	6620	6370	5950	5650	5180	4850	4520	4270	3940	3670	3470
B17	B1711	9660	9660	9660	9660	9450	9010	8650	8100	7660	7030	6590	6150	5810	5350	4990	4740
B18	B1813	12300	12300	12300	12300	12300	11900	11400	10700	10100	9290	8680	8130	7690	7050		
B19	B1911 B1913	13250	13250	13250	13250	13250	13250	13250	13100	12400	11400	10600	9950	8420	8650		

Values above are for condition of Fc, Fs, Fl = 1

Double-Row Spherical Roller Bearing

+

FCD45
Ductile Iron Housing

Permissible Output Shaft Overhung Load - Fro (kgs)

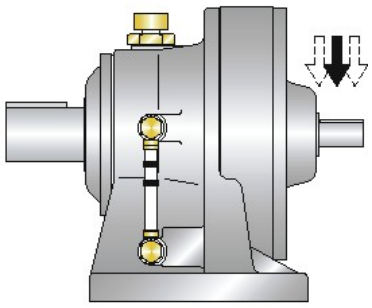
(Ductile Iron Housing w/ High Capacity Double-Row Spherical Roller Bearing)

Frame Size		Output RPM															
Single Reduction	Double Reduction	~10	15	20	25	30	35	40	50	60	80	100	125	150	200	250	300
B13	B1310	2005	2005	2005	2005	1923	1837	1774	1651	1560	1438	1352	1261	1188	1093	1021	966
B16	B1611	3003	3003	3003	3003	3003	3003	2889	2699	2563	2350	2200	2050	1937	1787	1665	1574
B17	B1711	4382	4382	4382	4382	4286	4087	3924	3674	3475	3189	2989	2790	2635	2427	2263	2150
B18	B1813	5579	5579	5579	5579	5579	5398	5171	4853	4581	4214	3937	3688	3488	3198		
B19	B1911 B1913	6010	6010	6010	6010	6010	6010	6010	5942	5625	5171	4808	4513	3819	3924		

Values above are for condition of Fc, Fs, Fl = 1

Input Shaft Load Position Coefficient (fl)

Frame Size		Distance From Oil Seal (inch)															
Single Reduction	Double Reduction	0.25	0.5	0.75	1.0	1.25	1.5	1.75	2.0	2.5	3.0	3.5	4.0	4.5	5	6	7	8
		Distance From Oil Seal (mm)																
6:1~87:1	88:1~7569:1	6	13	19	25	32	38	44	51	64	76	89	102	114	127	152	178	203
B07	B0707 B0807	0.73	1.06	1.60	2.00													
B08	B0908 B1008	0.73	1.06	1.60	2.00													
B09	B1109 B1409	0.88	1.08	1.59	2.00	2.38												
B10	B1310	0.91	1.09	1.59	2.00	2.38												
B11	B1611 B1711		0.87	1.14	1.41	1.67	2.09											
	B1911 B2011		0.87	1.14	1.41	1.67	2.09											
B12	-		0.87	1.14	1.41	1.67	2.09											
B13	B1813 B1913 B2013		0.84	1.00	1.23	1.45	1.81	2.13										
	B2113 B2213		0.84	1.00	1.23	1.45	1.81	2.13										
B14	B1409		0.84	1.00	1.23	1.45	1.81	2.13										
B15	-		0.84	1.00	1.23	1.45	1.81	2.13										
B16	B2116 B2316 B2416		0.94	0.98	1.05	1.18	1.35	1.52	1.64									
B17	B2217 B2517			0.96	0.99	1.05	1.22	1.39	1.49	1.77	2.05							
B18	B2318 B2418			0.93	0.96	0.99	1.10	1.25	1.35	1.61	1.86	2.17						
B19	B2519 B2619 B2719			0.93	0.95	0.98	1.05	1.16	1.25	1.46	1.67	1.92	2.08					
B20	-				0.93	0.95	0.99	1.04	1.10	1.25	1.39	1.56	1.68	1.85				
B21	-				0.93	0.95	0.99	1.03	1.08	1.22	1.35	1.51	1.61	1.77				
B22	-				0.94	0.96	0.99	1.02	1.04	1.10	1.19	1.33	1.42	1.56				
B23	-				0.84	0.86	0.88	0.93	0.98	1.09	1.21	1.34	1.44	1.58				
B24	-				0.91	0.92	0.95	0.98	0.99	1.09	1.20	1.33	1.42	1.55				
B25	-						0.93	0.94	0.96	1.00	1.06	1.16	1.22	1.31	1.40	1.54	1.72	
B26	-						0.93	0.94	0.96	1.00	1.06	1.16	1.22	1.31	1.40	1.54	1.72	
B27	-							0.93	0.94	0.98	1.22	1.14	1.22	1.35	1.48	1.64	1.92	2.08



If overhung load acts on the mid-point of input shaft, Fl = 1

Overhung Load (OHL)

Permissible Input Shaft Overhung Load - fro

Frame Size		Reduction Ratio	Permissible OHL in lbs — Input RPM							Permissible OHL in kgs — Input RPM						
Single Reduction	Double Reduction	Input Stage	1800	1500	1200	1000	900	750	600	1800	1500	1200	1000	900	750	600
B07	B0707 B0807	11~17,25~35	22	22	22	22	22	22	22	10	10	10	10	10	10	10
		21,43	11	11	11	11	11	11	11	5	5	5	5	5	5	5
B08	B0908 B1008	6~17,25~35,51,59	44	33	33	44	44	44	44	20	15	15	20	20	20	20
		21,43	11	11	11	11	11	33	44	5	5	5	5	5	15	20
B09	B1109 B1409	6~17,25~71	66	66	66	66	66	66	66	30	30	30	30	30	30	30
		21,87	44	44	44	44	55	55	66	20	20	20	20	25	25	30
B10	B1310	6~11,17~87	99	99	110	121	132	132	132	45	45	50	55	60	60	60
		13,15	99	99	99	110	110	121	132	45	45	45	50	50	55	60
B11	B1611 B1711	6~17	132	154	165	176	198	198	198	60	70	75	80	90	90	90
	B1911 B2011	21~87	121	110	110	121	132	198	198	55	50	50	55	60	90	90
B12	-	6~17	132	154	165	176	198	198	198	60	70	75	80	90	90	90
	-	21~87	121	110	110	121	132	198	198	55	50	50	55	60	90	90
B13	B1813 B1913 B2013	6~17,21	309	309	309	342	364	386	419	140	140	140	155	165	175	190
	B2113 B2213	25~87	287	287	287	309	331	353	397	130	130	130	140	150	160	180
B14	B1409	11~17	309	309	309	342	364	386	419	140	140	140	155	165	175	190
		21~87	287	287	287	309	331	353	397	130	130	130	140	150	160	180
B15	-	6,8	309	309	309	342	364	386	419	140	140	140	155	165	175	190
	-	11	276	220	243	265	276	298	331	125	100	110	120	125	135	150
	-	25	243	254	265	287	298	309	331	110	115	120	130	135	140	150
	-	29~87	121	132	132	154	154	154	243	55	60	60	70	70	70	110
B16	B2116 B2316	8~25,51,59	397	397	441	463	485	485	485	180	180	200	210	220	220	220
	B2416	29~43,71,87	243	265	287	309	309	353	397	110	120	130	140	140	160	180
B17	B2217 B2517	11~87	463	463	507	507	529	551	595	210	210	230	230	240	250	270
B18	B2318 B2418	11~87	617	573	617	661	683	750	772	280	260	280	300	310	340	350
B19	B2519 B2619	11~25	683	683	728	794	816	882	882	310	310	330	360	370	400	400
	B2719	29~87	595	573	639	661	705	750	816	270	260	290	300	320	340	370
B20	N / A	11~87	1213	1102	1213	1323	1367	1400	1389	550	500	550	600	620	635	630
B21	N / A	11~87	1290	1146	1224	1378	1422	1532	1631	585	520	555	625	645	695	740
B22	N / A	11~87	1488	1301	1345	1444	1488	1565	1687	675	590	610	655	675	710	765
B23	N / A	11~87			2249	2138	2061	2017	1962			1020	970	935	915	890
B24	N / A	11~87			2491	2271	2271	2381	2513			1130	1030	1030	1080	1140
B25	N / A	11~87			2646	2425	2535	2756	2954			1200	1100	1150	1250	1340
B26	N / A	11~87			2646	2425	2535	2756	2954			1200	1100	1150	1250	1340
B27	N / A	43,59			3307	3307	3307	3307	3307			1500	1500	1500	1500	1500

Values above are for condition of Fc, Fs, FI = 1

NOTE:

According to formula on the right, you can easily see that the following conditions contribute to higher Overhung Load (OHL):

$$Fr = \frac{126{,}000 \times hp \times FI \times Fc \times Fs}{\Phi_{\text{sprocket pitch in inch}} \times rpm}$$

- Sprocket teeth or pulley groove installed beyond the mid-point of output shaft.
- The use of flat belt.
- Heavy shock load in the application.
- Relatively small pitch diameter of sprocket or pulley.
- Low output rpm.

Contact factory if you need help in Overhung Load (OHL) calculation.

Moment of Inertia - WR^2 (GD^2)

Note: B16 ~ B27 figures contain fan WR^2

WR^2 at Reducer Input Shaft

unit = lb-in^2

Frame \ Ratio	6	8	11	13	15	17	21	25	29	35	43	51	59	71	87	Fan WR^2
B07	0.055	0.044	0.045	0.035	0.034	0.042	0.032	0.031	0.039	0.039	0.038	0.030	0.038			
B08	0.058	0.046	0.047	0.037	0.035	0.043	0.033	0.032	0.040	0.039	0.039	0.030	0.038			
B09	0.350	0.235	0.224	0.194	0.188	0.204	0.119	0.115	0.133	0.108	0.106	0.063	0.083	0.062	0.062	
B10	0.261	0.157	0.130	0.094	0.065	0.098	0.066	0.058	0.077	0.073	0.070	0.047	0.067	0.045	0.065	
B11	1.192	0.748	0.659	0.468	0.436	0.536	0.360	0.325	0.434	0.419	0.405	0.275	0.393	0.266	0.383	
B12	1.192	0.748	0.659	0.468	0.436	0.536	0.360	0.325	0.434	0.419	0.405	0.275	0.393	0.266	0.383	
B13	3.000	2.151	1.656	1.444	1.333	1.232	1.071	1.020	0.957	0.931	0.889	0.880	0.880	0.860	0.855	
B14	3.000	2.151	1.656	1.444	1.333	1.232	1.071	1.020	0.957	0.931	0.889	0.880	0.880	0.860	0.855	
B15	3.000	2.151	1.656	1.444	1.333	1.232	1.071	1.020	0.957	0.931	0.889	0.880	0.880	0.860	0.855	
B16	17.57	14.85	12.93	12.52	12.32	11.51	11.41	11.21	10.91	10.81	10.71	10.71	10.71	10.61	10.61	7.72
B17	31.41	24.75	21.51	20.50	19.80	18.48	18.28	17.27	16.87	16.87	16.56	16.46	16.36	16.26	16.26	6.61
B18			28.28	26.97	25.25	23.63	23.33	21.82	21.31	21.11	20.91	20.71	20.40	20.30	20.20	5.86
B19			72.82	70.70	68.07	65.55	64.64	61.91	60.50	59.89	59.19	58.88	58.58	58.38	58.18	21.61
B20			81.61		74.54		70.50		67.47		65.55		64.74		64.24	21.41
B21			128.3		117.2		111.1		107.1		103.0		103.0		102.0	36.2
B22			166.7		150.5		141.4		133.3		129.3		127.3		127.3	51.7
B23			279.8		255.5		239.4		229.3		222.2		220.2		218.2	89.7
B24			426.2		387.8		363.6		348.5		339.4		334.3		332.3	89.7
B25			768.6		704.0		661.6		635.3		619.1		612.1		609.0	204.0
B26			1008.99		914.1		859.5		818.1		791.8		780.7		774.7	204.0
B27											2576		2555			823.2

Specifications subject to change without prior notice

GD^2 at Reducer Input Shaft

unit = 0.0001 kg-m^2

Frame \ Ratio	6	8	11	13	15	17	21	25	29	35	43	51	59	71	87	Fan GD^2
B07	0.162	0.130	0.133	0.103	0.100	0.122	0.094	0.092	0.115	0.114	0.113	0.087	0.111			
B08	0.170	0.136	0.139	0.107	0.103	0.125	0.096	0.093	0.116	0.115	0.114	0.088	0.112			
B09	1.026	0.689	0.656	0.568	0.550	0.597	0.349	0.337	0.390	0.316	0.310	0.184	0.242	0.181	0.180	
B10	0.763	0.458	0.381	0.275	0.189	0.288	0.193	0.170	0.224	0.213	0.205	0.137	0.196	0.131	0.191	
B11	3.488	2.190	1.927	1.369	1.277	1.570	1.052	0.952	1.271	1.227	1.185	0.804	1.150	0.777	1.120	
B12	3.488	2.190	1.927	1.369	1.277	1.570	1.052	0.952	1.271	1.227	1.185	0.804	1.150	0.777	1.120	
B13	8.779	6.296	4.848	4.227	3.902	3.606	3.133	2.985	2.802	2.725	2.601	2.575	2.575	2.515	2.504	
B14	8.779	6.296	4.848	4.227	3.902	3.606	3.133	2.985	2.802	2.725	2.601	2.575	2.575	2.515	2.504	
B15	8.779	6.296	4.848	4.227	3.902	3.606	3.133	2.985	2.802	2.725	2.601	2.575	2.575	2.515	2.504	
B16	51.43	43.45	37.83	36.65	36.06	33.70	33.40	32.81	31.92	31.63	31.33	31.33	31.33	31.04	31.04	22.58
B17	91.93	72.42	62.96	60.00	57.93	54.09	53.50	50.54	49.36	49.36	48.48	48.18	47.88	47.59	47.59	19.33
B18			82.76	78.92	73.90	69.17	68.28	63.85	62.37	61.78	61.19	60.59	59.71	59.41	59.12	17.14
B19			213.1	206.9	199.2	191.8	189.2	181.2	177.1	175.3	173.2	172.3	171.4	170.8	170.3	63.25
B20			238.8		218.1		206.3		197.4		191.8		189.5		188.0	62.66
B21			375.4		342.9		325.1		313.3		301.5		301.5		298.5	105.8
B22			487.7		440.4		413.8		390.2		378.3		372.4		372.4	151.3
B23			818.8		747.8		700.5		671.0		650.3		644.4		638.5	262.5
B24			1247		1135		1064		1020		993		978		972	262.5
B25			2249		2060		1936		1859		1812		1791		1782	597.1
B26			2953		2675		2515		2394		2317		2285		2267	597.1
B27											7537		7478			2409

Specifications subject to change without prior notice

- To calculate WR^2 (GD^2) at **reducer output shaft**, multiply WR^2 (GD^2) of reducer input by the square of ratio.

$$WR^2_{output} = WR^2_{input} \times (Ratio)^2$$

EXAMPLE: Find WR^2 at output shaft of B11-87-XHH

$$WR^2_{output} = 0.383 \times (87)^2 = 2899 \text{ lb-in}^2$$

**** By knowing torque, WR^2 can be used to calculate estimated time required to reach a given velocity.***

- To calculate WR^2 (GD^2) of **double reduction models**,

$$WR^2_{double\ stage} = WR^2_{first\ stage} + \frac{WR^2_{second\ stage} - WR^2_{second\ stage\ fan}}{Ratio^2_{first\ stage}}$$

EXAMPLE: Find WR^2 of B1813-255-XHH

First Stage: B13-17:1, WR^2 = 1.232 lb-in^2
Second Stage: B18-15:1, WR^2 = 25.25 lb-in^2
B18 Fan, WR^2 = 5.86 lb-in^2

$$WR^2 = 1.232 + \frac{25.25 - 5.86}{17^2} = 1.299 \text{ lb-in}^2$$

Moment of Inertia - WR^2 (GD^2)

WR^2 of Integral Gearmotor (excluding motor)

unit = lb-in^2

Frame \ Ratio	6	8	11	13	15	17	21	25	29	35	43	51	59	71	87
B07	0.064	0.052	0.037	0.044	0.043	0.033	0.040	0.040	0.031	0.031	0.030	0.038	0.030		
B08	0.067	0.055	0.039	0.045	0.044	0.034	0.041	0.040	0.031	0.031	0.030	0.038	0.030		
B09	0.330	0.255	0.204	0.215	0.209	0.183	0.139	0.135	0.112	0.087	0.086	0.084	0.062	0.082	0.061
B10	0.265	0.192	0.117	0.121	0.110	0.077	0.089	0.081	0.056	0.052	0.049	0.068	0.046	0.066	0.044
B11	1.070	0.871	0.538	0.588	0.557	0.416	0.480	0.446	0.313	0.299	0.285	0.395	0.272	0.387	0.262
B12	1.070	0.871	0.538	0.588	0.557	0.416	0.480	0.446	0.313	0.299	0.285	0.395	0.272	0.387	0.262
B13	2.959	2.028	1.493	1.268	1.139	1.044	0.866	0.810	0.745	0.719	0.676	0.665	0.659	0.643	0.638
B14	3.253	2.118	1.531	1.268	1.143	1.031	0.867	0.811	0.745	0.719	0.676	0.663	0.659	0.643	0.638
B15	3.253	2.209	1.570	1.268	1.148	1.018	0.868	0.812	0.745	0.720	0.676	0.660	0.659	0.643	0.638
B16	9.034	6.134	4.271	3.796	3.417	2.882	2.640	2.468	2.191	2.105	2.019	1.984	1.993	1.907	1.881
B17	28.29	19.21	13.37	12.17	10.78	10.35	9.663	9.318	8.800	8.714	8.438	8.352	8.248	8.214	8.171
B18			19.84	17.95	15.96	15.19	14.49	13.46	12.94	12.77	12.42	12.08	11.91	11.91	11.82
B19			47.02	43.40	41.24	39.69	36.93	35.81	34.68	33.91	33.39	33.04	32.79	32.61	32.44
B20			55.74		48.75		44.61		41.59		39.69		38.91		38.48
B21			85.42		74.55		68.07		63.42		60.40		59.19		58.50
B22			105.3		88.87		79.98		72.47		67.99		66.09		64.97
B23			171.7		147.5		132.0		121.7		115.6		112.2		111.3
B24			311.5		273.5		249.3		234.7		224.3		220.0		218.3
B25			506.5		441.7		399.5		372.7		357.2		350.3		346.0
B26			741.1		643.6		586.7		546.1		520.3		509.0		502.1
B27											1631		1605		

Specifications subject to change without prior notice

GD^2 of Integral Gearmotor (excluding motor)

unit = 0.0001 kg-m^2

Frame \ Ratio	6	8	11	13	15	17	21	25	29	35	43	51	59	71	87
B07	0.186	0.153	0.109	0.128	0.124	0.098	0.118	0.116	0.091	0.089	0.088	0.112	0.087		
B08	0.195	0.160	0.114	0.132	0.128	0.100	0.120	0.117	0.091	0.090	0.089	0.113	0.087		
B09	0.965	0.747	0.598	0.629	0.611	0.535	0.407	0.394	0.328	0.255	0.251	0.244	0.183	0.241	0.180
B10	0.775	0.561	0.343	0.354	0.323	0.226	0.260	0.238	0.164	0.153	0.145	0.199	0.133	0.194	0.129
B11	3.131	2.550	1.576	1.722	1.631	1.217	1.404	1.305	0.917	0.874	0.833	1.156	0.795	1.131	0.768
B12	3.131	2.550	1.576	1.722	1.631	1.217	1.404	1.305	0.917	0.874	0.833	1.156	0.795	1.131	0.768
B13	8.661	5.934	4.368	3.712	3.333	3.055	2.535	2.371	2.179	2.103	1.980	1.947	1.929	1.881	1.869
B14	9.519	6.199	4.482	3.712	3.346	3.017	2.538	2.374	2.179	2.105	1.980	1.939	1.929	1.881	1.869
B15	9.519	6.464	4.596	3.712	3.358	2.980	2.540	2.376	2.179	2.106	1.980	1.932	1.929	1.881	1.869
B16	26.44	17.95	12.50	11.11	10.00	8.434	7.727	7.222	6.414	6.161	5.909	5.808	5.833	5.580	5.505
B17	82.79	56.22	39.14	35.60	31.56	30.30	28.28	27.27	25.76	25.50	24.69	24.44	24.14	24.04	23.91
B18			58.08	52.52	46.71	44.44	42.42	39.39	37.88	37.37	36.36	35.35	34.85	34.85	34.59
B19			137.6	127.0	120.7	116.2	108.1	104.8	101.5	99.23	97.72	96.71	95.95	95.45	94.94
B20			163.1		142.7		130.5		121.7		116.2		113.9		112.6
B21			250.0		218.2		199.2		185.6		176.8		173.2		171.2
B22			308.1		260.1		234.1		212.1		199.0		193.4		190.1
B23			502.5		431.8		386.3		356.0		338.4		328.3		325.7
B24			911.5		800.4		729.7		686.8		656.5		643.9		638.8
B25			1482		1293		1169		1091		1045		1025		1013
B26			2169		1884		1717		1598		1523		1490		1470
B27											4772		4697		

Specifications subject to change without prior notice

The WR^2 of motors can be found on page 47

- To calculate WR^2 (GD^2) of **single reduction integral gearmotor**:

$$WR^2 = WR^2_{motor} + WR^2_{reducer}$$

EXAMPLE: Find WR^2 of B11-87-1MHH

Motor = 1 hp, WR^2 = 30.8 lb-in^2
Reducer = B11-87:1, WR^2 = 0.262 lb-in^2

WR^2 = 30.8 + 0.262 = 31.062 lb-in^2

- To calculate WR^2 (GD^2) of **double reduction integral gearmotor**:

$$WR^2 = WR^2_{motor} + WR^2_{first\ stage} + \frac{WR^2_{second\ stage}}{Ratio^2_{first\ stage}}$$

EXAMPLE: Find WR^2 of B1711-195-3MHH, (13:1 x 15:1)

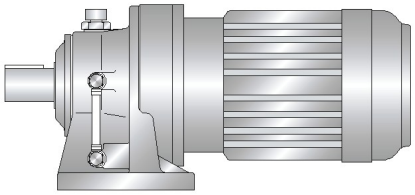
Motor = 3 hp, WR^2 = 113 lb-in^2
First Stage = B11-13:1, WR^2 = 0.588 lb-in^2
Second Stage = B17-15:1, WR^2 = 10.78 lb-in^2

$$WR^2 = 113 + 0.588 + \frac{10.78}{13^2} = 113.65 \ \text{lb-in}^2$$

Standard Motor Characteristics

TEFC AC Induction Motors

3-Phase 60 Hz or 50 Hz, 230/460V, 220/380V, 208/415V, 220/440V, 575V

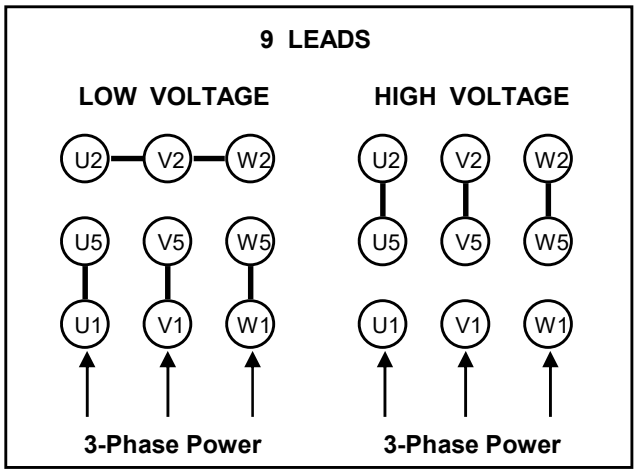


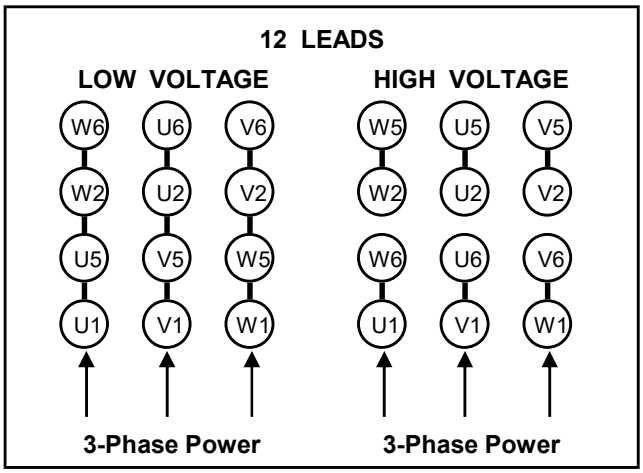
230/460 VAC, 60 Hz, Continuous Duty, TEFC

Output		Full		Full Load Characteristic					Starting Torque		Max.		
		Load	Motor	Torque		Effic.	Power		% of		Torque	Inertia	
hp	kW	rpm	Frame	kg-m	in-lb	%	Factor	Amp	F.L.	Amp	%	kg-m^2	lb-in^2
1/4	0.185	1650	63	0.110	9.5	66.0	70.0	1.0	280	6	250	0.003	10.3
		1120	71	0.162	14.1	64.0	60.0	1.3	200	6	250	0.006	20.5
1/2	0.37	1680	71	0.216	18.7	70.0	75.0	1.9	200	12	250	0.005	17.1
		1130	80	0.321	27.9	68.0	67.0	2.2	200	12	230	0.009	30.8
1	0.75	1700	80	0.427	37.1	76.0	76.5	3.4	230	19	280	0.009	30.8
		1140	90 L	0.637	55.3	76.0	71.0	3.6	200	19	230	0.018	61.5
2	1.5	1710	90 L	0.849	73.7	79.0	81.0	6.1	220	40	280	0.018	61.5
		1140	100 L	1.273	110	78.0	74.0	6.8	180	40	220	0.033	113
3	2.2	1725	100 L	1.262	110	82.0	82.5	8.7	210	68	260	0.033	113
		1150	112 M	1.894	164	82.0	77.0	9.3	180	68	230	0.060	205
5	3.7	1745	112 M	2.080	181	85.0	85.0	13.5	220	110	260	0.060	205
		1160	132 S	3.129	272	84.0	77.0	15.1	180	110	230	0.154	526
7 1/2	5.5	1750	132 S	3.111	270	87.0	84.0	20.1	220	160	250	0.106	362
		1160	132 M	4.693	407	85.0	77.5	22.3	200	160	230	0.222	759
10	7.5	1750	132 M	4.148	360	88.5	88.0	25.1	220	200	250	0.146	499
		1170	160 M	6.204	538	87.0	80.0	28.1	210	200	230	0.408	1394
15	11	1760	160 M	6.186	537	90.0	89.0	36.7	220	290	250	0.322	1100
		1170	160 L	9.306	808	89.5	84.0	39.1	210	290	230	0.599	2047
20	15	1760	160 L	8.248	716	90.5	86.0	50.3	220	360	240	0.412	1408
		1170	180 MC	12.41	1077	90.0	85.0	51.2	200	360	210	1.007	3441
25	18.5	1765	180 MC	10.28	892	91.0	85.5	62.9	210	440	240	0.624	2132
		1170	180 LC	15.51	1346	90.0	84.5	64.4	200	440	210	1.170	3998
30	22	1765	180 MC	12.34	1071	91.5	88.0	72.9	210	550	240	0.671	2293
		1170	180 LC	18.61	1615	91.0	84.0	76.8	200	550	210	1.365	4664
40	30	1760	180 LC	16.50	1432	92.0	88.0	96.7	210	620	230	0.829	2833
		1170	180 LC	24.82	2154	92.0	85.0	100.1	190	620	200	1.952	6670
50	37	1760	200 LC	20.60	1788	92.0	86.0	124.0	200	800	210	1.293	4418
		1170	200 LC	31.02	2692	92.5	84.0	126.0	190	800	200	2.292	7832
60	45	1760	200 LC	24.75	2148	92.0	89.0	143.5	190	910	200	1.681	5744
		1170	225 SC	37.22	3231	92.5	86.0	147.7	170	910	200	3.201	10938
75	55	1765	225 SC	30.84	2677	92.5	86.5	183.5	180	1220	200	1.947	6653

Specifications subject to change without prior notice

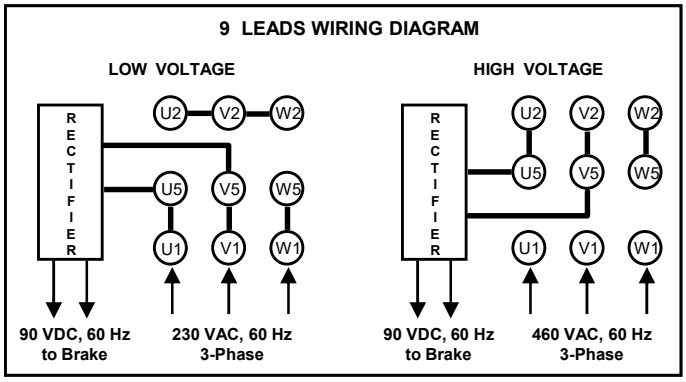
▸ Standard Motor Wiring Diagram

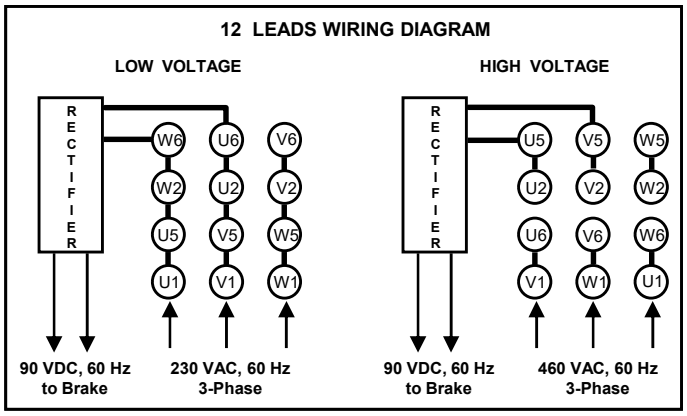




▸ Brakemotor Wiring Diagram

DARALI® DRIVES Brakemotor comes with either a 9-lead or 12-lead junction box. Please refer to the diagram below for wiring connections of motor as well as power supply to the 90VDC rectifier. DARALI® DRIVES Brakemotors are pre-wired for 460 VAC at the factory. If your power supply is 460 VAC, no wiring changes are needed. Simply connect your power supply to the leads shown below. If your power supply is 230 VAC, first determine whether the motor is 9-lead or 12-lead, then connect the motor wiring and rectifier wiring according to the diagram.





POSSIBLE DOUBLE STAGE REDUCTION RATIOS

Ratio Combination	6	8	11	13	15	17	21	25	29	35	43	51	59	71	87
6						102	126	150	174	210	258	306	354	426	522
8				104	120	136	168	200	232	280	344	408	472	568	696
11			121	143	165	187	231	275	319	385	473	561	649	781	957
13		104	143	169	195	221	273	325	377	455	559	663	767	923	1131
15		120	165	195	225	255	315	375	435	525	645	765	885	1065	1305
17	102	136	187	221	255	289	357	425	493	595	731	867	1003	1207	1479
21	126	168	231	273	315	357	441	525	609	735	903	1071	1239	1491	1827
25	150	200	275	325	375	425	525	625	725	875	1075	1275	1475	1775	2175
29	174	232	319	377	435	493	609	725	841	1015	1247	1479	1711	2059	2523
35	210	280	385	455	525	595	735	875	1015	1225	1505	1785	2065	2485	3045
43	258	344	473	559	645	731	903	1075	1247	1505	1849	2193	2537	3053	3741
51	306	408	561	663	765	867	1071	1275	1479	1785	2193	2601	3009	3621	4437
59	354	472	649	767	885	1003	1239	1475	1711	2065	2537	3009	3481	4189	5133
71	426	568	781	923	1065	1207	1491	1775	2059	2485	3053	3621	4189	5041	6177
87	522	696	957	1131	1305	1479	1827	2175	2523	3045	3741	4437	5133	6177	7569

Combination of any two single stage reduction ratios can be made into double stage reduction ratio

OUTPUT TORQUE OF INTEGRAL GEARMOTORS @ 1750 RPM INPUT (4-Poles, 60 Hz)

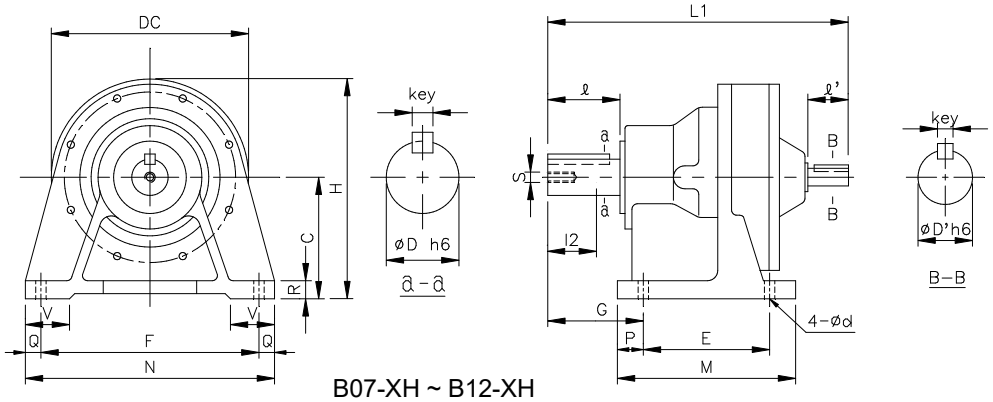
unit = inch-lb

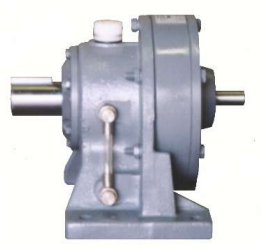
Ratio / HP	6	8	11	13	15	17	21	25	29	35	43	51	59	71	87
	292	*219*	*159*	*135*	*117*	*103*	*83.3*	*70.0*	*60.3*	*50.0*	*40.7*	*34.3*	*29.7*	*24.6*	*20.1*
1/8	25	33	46	54	63	71	88	104	121	146	179	213	246	296	363
1/4	50	67	92	108	125	142	175	208	242	292	359	425	492	592	725
1/2	100	133	183	217	250	283	350	417	484	584	717	850	984	1184	1451
1	200	267	367	434	500	567	700	834	967	1167	1434	1701	1968	2368	2901
2	400	534	734	867	1000	1134	1401	1667	1934	2334	2868	3402	3935	4736	5803
3	600	800	1101	1301	1501	1701	2101	2501	2901	3502	4302	5102	5903	7103	8704
5	1000	1334	1834	2168	2501	2835	3502	4169	4836	5836	7170	8504	9838	11839	14507
7 1/2	1501	2001	2751	3252	3752	4252	5253	6253	7253	8754	10755	12756	14757	17758	21760
10	2001	2668	3668	4335	5002	5669	7003	8337	9671	11672	14340	17008	19676	23678	29014
15	3001	4002	5503	6503	7504	8504	10505	12506	14507	17508	21510	25512	29514	35517	43521
20	4002	5336	7337	8671	10005	11339	14007	16675	19343	23344	28680	34016	39352	47356	58028
25	5002	6670	9171	10838	12506	14173	17508	20843	24178	29181	35850	42520	49190	59195	72535
30	6003	8004	11005	13006	15007	17008	21010	25012	29014	35017	43021	51024	59028	71034	87041
40	8004	10672	14674	17342	20010	22677	28013	33349	38685	46689	57361	68032	78704	94712	116055
50	10005	13340	18342	21677	25012	28347	35017	41687	48356	58361	71701	85041	98380	118390	145069

Italicized values below reduction ratios are output rpm's

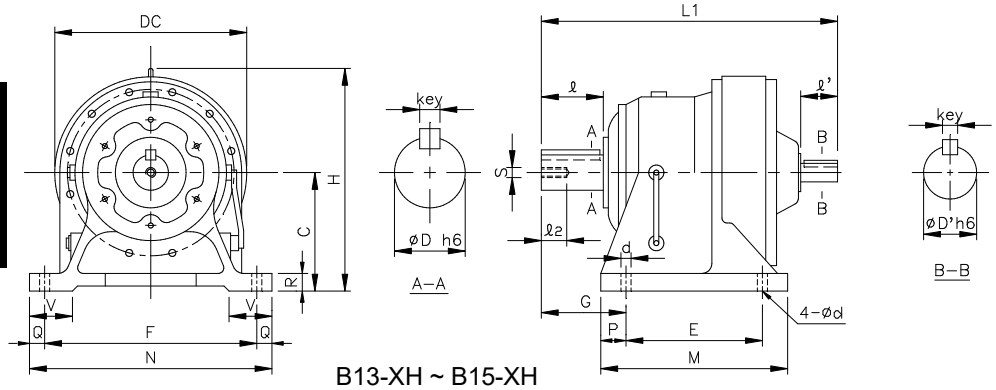
REDUCER - XH

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

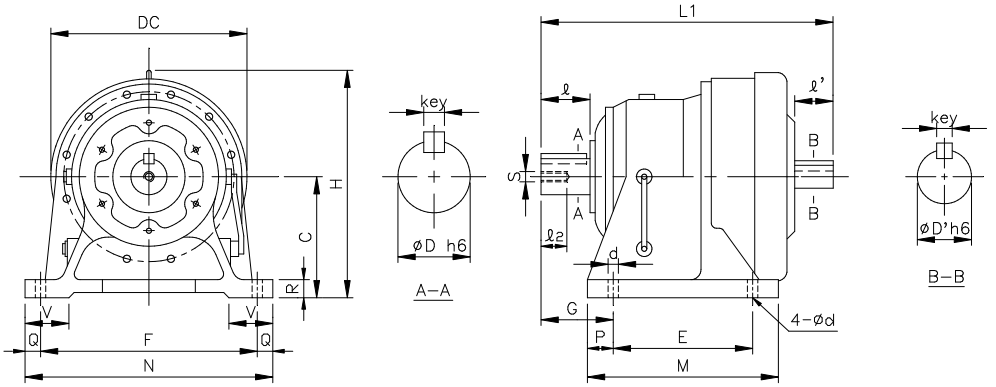


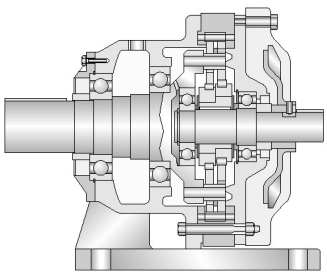


B07-XH ~ B12-XH

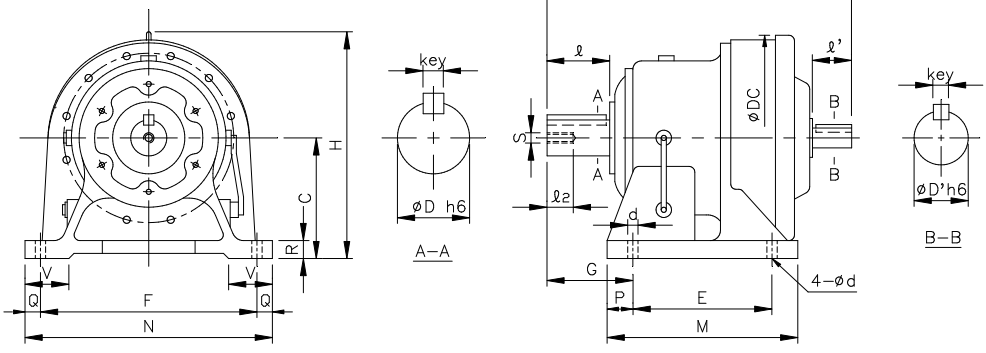


B13-XH ~ B15-XH

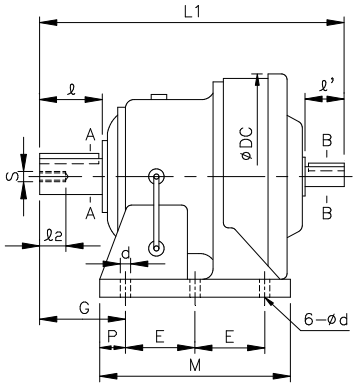




B16-XH ~ B18-XH



B19-XH ~ B26-XH



B27-XH, A90-XH ~ A93-XH
(w/ 6 Mounting Holes)

REDUCER - XH

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

INCH SHAFT - SINGLE STAGE

	Dim. in mm														Dim. in inch					Dim. in inch			
FRAME															Output Shaft					Input Shaft			Wt
SIZE	C	DC	E	F	G	H	L1	M	N	P	Q	R	V	d	D	l	Key	s	l2	D'	l'	Key	(lb)
B07-XH	80	110	60	120	41	135	145	84	144	12	12	12	35	9	.500	0.98	1/8 x 1/8 x .79	M6	12	.500	.98	1/8 x 1/8 x .71	7
B08-XH	80	110	60	120	47	135	151	84	144	12	12	12	35	9	.750	1.18	3/16 x 3/16 x 1.06	M6	12	.500	.98	1/8 x 1/8 x .71	7
B09-XH	100	150	90	150	75	175	217	130	180	15	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75	24
B10-XH	100	150	90	150	75	175	223	135	180	15	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75	29
B11-XH	120	204	115	190	82	222	259	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	53
B12-XH	140	204	115	190	82	242	259	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	57
B13-XH	150	230	145	290	100	265	321	195	330	25	20	27	65	18	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	95
B14-XH	150	230	145	290	120	265	341	195	330	25	20	27	65	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	99
B15-XH	160	230	145	290	120	275	341	195	330	25	20	27	70	18	1.875	3.54	1/2 x 1/2 x 2.95	M10	18	.875	1.57	3/16 x 3/16 x 1.38	101
B16-XH	160	318	150	370	139	319	413	238	410	44	20	30	75	18	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	1.125	1.77	1/4 x 1/4 x 1.77	185
B17-XH	200	362	275	380	125	381	477	335	430	30	25	32	80	22	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	1.375	2.17	5/16 x 5/16 x 2.17	276
B18-XH	220	390	320	420	145	415	527	380	470	30	25	33	85	22	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	1.500	2.56	3/8 x 3/8 x 2.56	359
B19-XH	250	451	380	480	170	476	620	440	530	30	25	40	90	26	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	1.750	2.76	3/8 x 3/8 x 2.56	529
B20-XH	250	471	360	440	215	485	678	440	530	40	45	40	100	26	3.875	6.50	1 x 1 x 6.50	M20	34	1.750	3.23	3/8 x 3/8 x 3.23	573
B21-XH	265	507	395	480	210	518	708	475	580	40	50	42	110	26	4.250	6.50	1 x 1 x 6.50	M20	34	1.875	3.23	1/2 x 1/2 x 3.23	750
B22-XH	280	549	420	540	230	554	752	520	620	50	40	42	115	33	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	2.125	3.23	1/2 x 1/2 x 3.23	904
B23-XH	300	591	460	580	260	595	839	560	670	50	45	45	120	33	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	2.250	4.13	1/2 x 1/2 x 4.13	1124
B24-XH	335	637	480	630	263	654	877	580	720	50	45	45	128	39	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	2.500	4.13	5/8 x 5/8 x 4.13	1367
B25-XH	375	703	520	670	320	726	1040	630	780	55	55	50	140	39	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	3.125	5.12	3/4 x 3/4 x 5.12	2116
B26-XH	400	772	590	770	390	786	1150	700	880	55	55	55	160	45	6.625	11.81	1.75 x 1.25 x 11.8	M30	49	3.125	5.12	3/4 x 3/4 x 5.12	2646
B27-XH	540	986	420	1050	485	1033	1462	1040	1160	100	55	60	200	45	7.000	13.0	1.75 x 1.25 x 13	M30	52	3.500	5.91	7/8 x 7/8 x 5.91	5423
A90-XH	290	532	240	560	215	556	740	560	620	40	30	40	100	26	4.250	6.69	1 x 1 x 6.31	M20	34	1.875	3.15	1/2 x 1/2 x 3.16	849
A91-XH	325	600	250	630	290	625	851	600	690	50	30	40	105	26	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	2.125	3.54	1/2 x 1/2 x 3.53	1190
A92-XH	420	760	330	800	372	800	1110	810	880	75	40	50	143	39	5.500	9.84	1 1/4 x 7/8 x 9.66	M30	52	2.750	4.72	5/8 x 5/8 x 4.72	2359
A93-XH	540	1010	420	1050	485	1045	1462	1040	1160	100	55	60	200	45	7.000	13.0	1 3/4 x 1 1/4 x 13	M30	52	3.500	5.91	7/8 x 7/8 x 5.91	5357

METRIC SHAFT - SINGLE STAGE

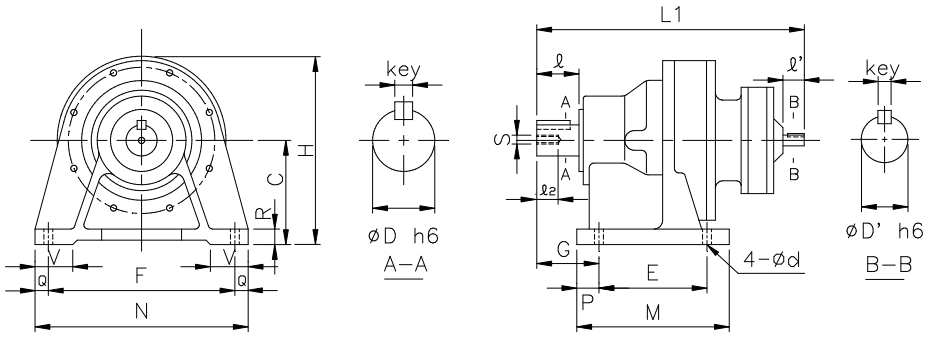
	Dim. in mm														Dim. in mm					Dim. in mm			
FRAME															Output Shaft					Input Shaft			Wt
SIZE	C	DC	E	F	G	H	L1	M	N	P	Q	R	V	d	D	l	Key	s	l2	D'	l'	Key	(kg)
B07-XH	80	110	60	120	41	135	145	84	144	12	12	12	35	9	14	25	5 x 5 x 20	M6	12	12	25	4 x 4 x 18	3
B08-XH	80	110	60	120	47	135	151	84	144	12	12	12	35	9	18	30	6 x 6 x 25	M6	12	12	25	4 x 4 x 18	3
B09-XH	100	150	90	150	75	175	217	130	180	15	15	17	40	11	28	50	8 x 7 x 32	M8	18	15	25	5 x 5 x 17	11
B10-XH	100	150	90	150	75	175	223	135	180	15	15	17	40	11	28	50	8 x 7 x 32	M8	18	15	25	5 x 5 x 17	13
B11-XH	120	204	115	190	82	222	259	155	230	20	20	21	55	14	38	55	10 x 8 x 50	M10	18	18	35	6 x 6 x 25	24
B12-XH	140	204	115	190	82	242	259	155	230	20	20	21	55	14	38	55	10 x 8 x 50	M10	18	18	35	6 x 6 x 25	26
B13-XH	150	230	145	290	100	265	321	195	330	25	20	27	65	18	50	70	14 x 9 x 56	M10	18	22	40	6 x 6 x 32	43
B14-XH	150	230	145	290	120	265	341	195	330	25	20	27	65	18	50	90	14 x 9 x 80	M10	18	22	40	6 x 6 x 32	45
B15-XH	160	230	145	290	120	275	341	195	330	25	20	27	70	18	50	90	14 x 9 x 80	M10	18	22	40	6 x 6 x 32	46
B16-XH	160	318	150	370	139	319	413	238	410	44	20	30	75	18	60	90	18 x 11 x 80	M10	18	30	45	8 x 7 x 45	84
B17-XH	200	362	275	380	125	381	477	335	430	30	25	32	80	22	70	90	20 x 12 x 80	M12	24	35	55	10 x 8 x 55	125
B18-XH	220	390	320	420	145	415	527	380	470	30	25	33	85	22	80	110	22 x 14 x 100	M12	24	40	65	12 x 8 x 45	163
B19-XH	250	451	380	480	170	476	620	440	530	30	25	40	90	26	95	135	25 x 14 x 125	M20	34	45	70	14 x 9 x 70	240
B20-XH	250	471	360	440	215	485	678	440	530	40	45	40	100	26	100	165	28 x 16 x 165	M20	34	45	82	14 x 9 x 82	260
B21-XH	265	507	395	480	210	518	708	475	580	40	50	42	110	26	110	165	28 x 16 x 165	M20	34	50	82	14 x 9 x 82	340
B22-XH	280	549	420	540	230	554	752	520	620	50	40	42	115	33	120	165	32 x 18 x 165	M20	34	55	82	16 x 10 x 82	410
B23-XH	300	591	460	580	260	595	839	560	670	50	45	45	120	33	130	200	32 x 18 x 200	M24	41	60	105	18 x 11 x 105	510
B24-XH	335	637	480	630	263	654	877	580	720	50	45	45	128	39	140	200	36 x 20 x 200	M24	41	65	105	18 x 11 x 105	620
B25-XH	375	703	520	670	320	726	1040	630	780	55	55	50	140	39	160	240	40 x 22 x 240	M30	49	80	130	22 x 14 x 130	960
B26-XH	400	772	590	770	390	786	1150	700	880	55	55	55	160	45	170	300	40 x 22 x 300	M30	49	80	130	22 x 14 x 130	1200
B27-XH	540	986	420	1050	485	1033	1462	1040	1160	100	55	60	200	45	180	330	45 x 25 x 330	M30	52	90	150	25 x 14 x 135	2460
A90-XH	290	532	240	560	215	556	740	560	620	40	30	40	100	26	110	170	28 x 18 x155	M20	34	50	80	14 x 8 x 70	385.1
A91-XH	325	600	250	630	290	625	851	600	690	50	30	40	105	26	120	210	32 x 20 x195	M24	42	55	90	15 x 10 x 80	539.8
A92-XH	420	760	330	800	372	800	1110	810	880	75	40	50	143	39	140	250	35 x 22 x 230	M30	52	70	120	18 x 12 x 105	1070
A93-XH	540	1010	420	1050	485	1045	1462	1040	1160	100	55	60	200	45	180	330	42 x 26 x 265	M30	52	90	150	24 x 16 x 135	2430

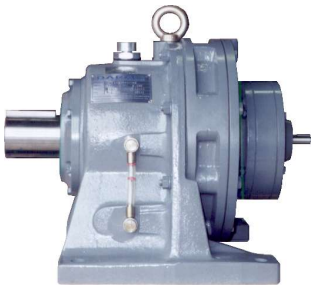
What are A90, A91, A92, and A93 ?

When we changed from A Series to B Series Cycloidal Drives, most of the smaller frame sizes within both A Series and B Series share the same foot print, shaft center height, and shaft diameter. However, the four largest frame sizes in A Series (A90~A93) evolved into eight frame sizes in B Series (B20~B27). Since B20~B26 do not share the same mounting pattern as A90~A92, it is sometimes difficult for the A90~A92 users to find a direct drop-in replacement for its A90~A92 speed reducers. **To make it convenient for our customers, DARALI® DRIVES is making A90~A93 available for easy drop-in replacement.** ***No mounting changes are required.***

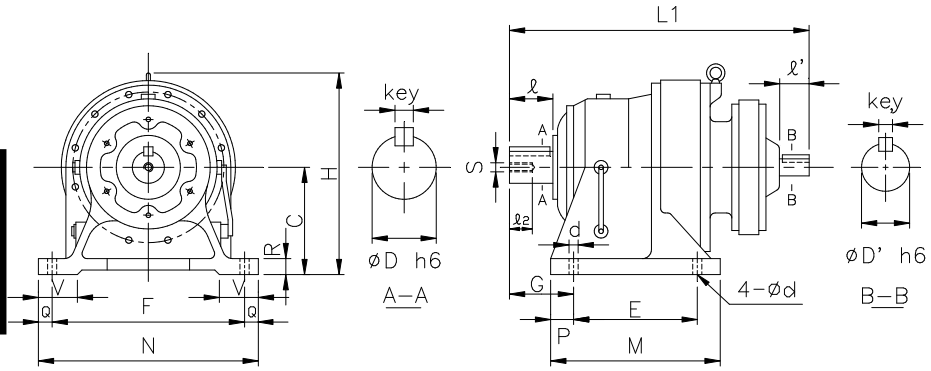
REDUCER - XH

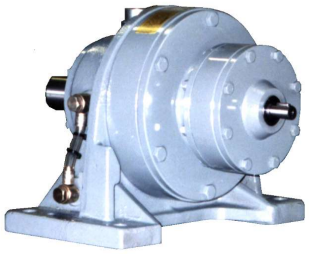
1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.



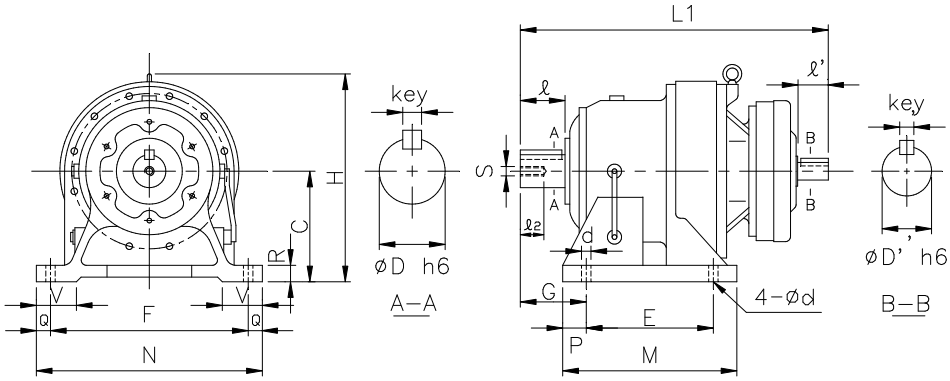


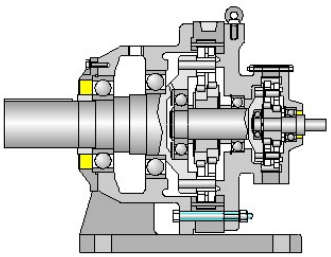
B0707-XH ~ B1109-XH



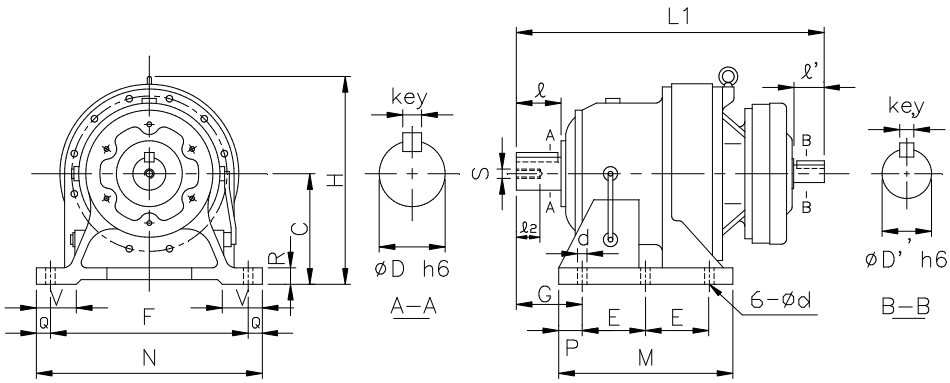


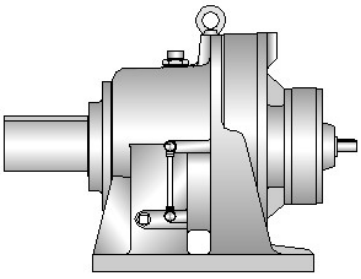
B1310-XH ~ B1813-XH





B1911-XH ~ B2619-XH
(B1911-XH ~ B2113-XH, B2213-XH do not have cooling fan)





B2719-XH, A904-XH ~ A939-XH (w/ 6 Mounting Holes)
(A904-XH does not have cooling fan)

REDUCER - XH

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

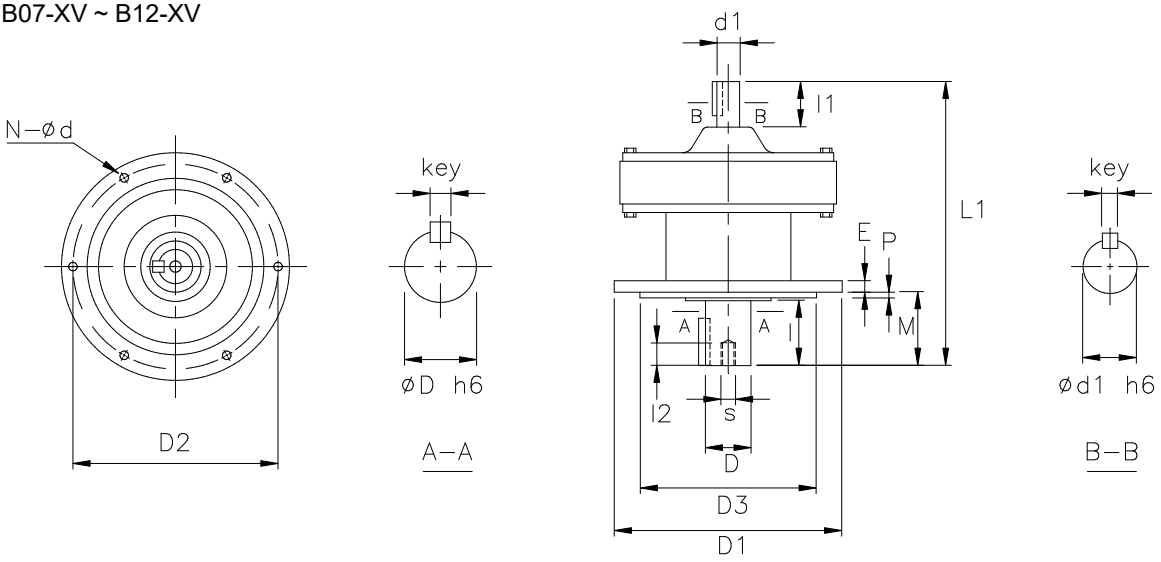
INCH SHAFT - DOUBLE STAGE

FRAME SIZE	Dim. in mm													Dim. in inch					Dim. in inch			Wt
														Output Shaft					Input Shaft			
	C	E	F	G	H	L1	M	N	P	Q	R	V	d	D	l	Key	s	l2	D'	l'	Key	(lb)
B0707-XH	80	60	120	41	135	178	84	144	12	12	12	35	9	.500	0.98	1/8 x 1/8 x .79	M6	12	.500	.98	1/8 x 1/8 x .71	9
B0807-XH	80	60	120	47	135	184	84	144	12	12	12	35	9	.750	1.18	3/16 x 3/16 x 1.06	M6	12	.500	.98	1/8 x 1/8 x .71	10
B0908-XH	100	90	180	75	175	258	130	180	12	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.500	.98	1/8 x 1/8 x .71	26
B1008-XH	100	90	150	75	175	272	135	180	15	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.500	.98	1/8 x 1/8 x .71	33
B1109-XH	120	115	190	82	222	312	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.625	.98	3/16 x 3/16 x .75	64
B1310-XH	150	145	290	100	265	369	195	330	25	20	27	65	18	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75	101
B1409-XH	150	145	290	120	265	383	195	330	25	20	27	65	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75	99
B1611-XH	160	150	370	139	319	462	238	410	44	20	30	75	18	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	.750	1.38	3/16 x 3/16 x 1.02	209
B1711-XH	200	275	380	125	381	509	335	430	30	25	32	80	22	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	.750	1.38	3/16 x 3/16 x 1.02	282
B1813-XH	220	320	420	145	415	577	380	470	30	25	33	85	22	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	.875	1.57	3/16 x 3/16 x 1.38	408
B1911-XH	250	380	480	170	476	629	440	530	30	25	40	90	26	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.750	1.38	3/16 x 3/16 x 1.02	529
B1913-XH	250	380	480	170	476	653	440	530	30	25	40	90	26	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.875	1.57	3/16 x 3/16 x 1.38	551
B2011-XH	250	360	440	215	485	670	440	530	40	45	40	100	26	3.875	6.50	1 x 1 x 6.50	M20	34	.750	1.38	3/16 x 3/16 x 1.02	573
B2013-XH	250	360	440	215	485	705	440	530	40	45	40	100	26	3.875	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	595
B2113-XH	265	395	480	210	518	731	475	580	40	50	42	110	26	4.250	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	794
B2116-XH	265	395	480	210	518	780	475	580	40	50	42	110	26	4.250	6.50	1 x 1 x 6.50	M20	34	1.125	1.77	1/4 x 1/4 x 1.77	838
B2213-XH	280	420	540	230	554	773	520	620	50	40	45	115	33	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	794
B2217-XH	280	420	540	230	554	860	520	620	50	40	45	115	33	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	1.375	2.17	5/16 x 5/16 x 2.17	1058
B2316-XH	300	460	580	260	595	883	560	670	50	45	45	120	33	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77	1213
B2318-XH	300	460	580	260	595	938	560	670	50	45	45	120	33	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.500	2.56	3/8 x 3/8 x 2.56	1279
B2416-XH	335	480	630	263	654	921	580	720	50	45	45	128	39	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77	1455
B2418-XH	335	480	630	263	654	975	580	720	50	45	45	128	39	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.500	2.56	3/8 x 3/8 x 2.56	1521
B2517-XH	375	520	670	320	726	1081	630	780	55	55	50	140	39	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	1.375	2.17	5/16 x 5/16 x 2.17	2227
B2519-XH	375	520	670	320	726	1133	630	780	55	55	50	140	39	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	1.750	2.76	3/8 x 3/8 x 2.56	2403
B2619-XH	400	590	770	390	786	1243	700	880	55	55	55	160	45	6.625	11.81	1 3/4 x 1 1/4 x 11.8	M30	49	1.750	2.76	3/8 x 3/8 x 2.56	2954
B2719-XH	540	420	1050	485	1033	1504	1040	1160	100	55	60	200	45	7.000	13.0	1 3/4 x 1 1/4 x 13	M30	52	1.750	2.76	3/8 x 3/8 x 2.56	5467
A904-XH	290	240	560	215	556	763	560	620	40	30	40	100	26	4.250	6.69	1 x 1 x 6.31	M20	34	.875	1.57	3/16 x 3/16 x 1.38	872
A906-XH	290	240	560	215	556	810	560	620	40	30	40	100	26	4.250	6.69	1 x 1 x 6.31	M20	34	1.125	1.77	1/4 x 1/4 x 1.77	927
A916-XH	325	250	630	290	625	910	600	690	50	30	40	105	26	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.125	1.77	1/4 x 1/4 x 1.77	1238
A917-XH	325	250	630	290	625	937	600	690	50	30	40	105	26	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.375	2.17	5/16 x 5/16 x 2.17	1305
A928-XH	420	330	800	372	800	1158	810	880	75	40	50	143	39	5.500	9.84	1 1/4 x 7/8 x 9.66	M30	52	1.500	2.56	3/8 x 3/8 x 2.56	2465
A939-XH	540	420	1050	485	1045	1504	1040	1160	100	55	60	200	45	7.000	13	1 3/4 x 1 1/4 x 13	M30	52	1.750	2.76	3/8 x 3/8 x 2.56	5480

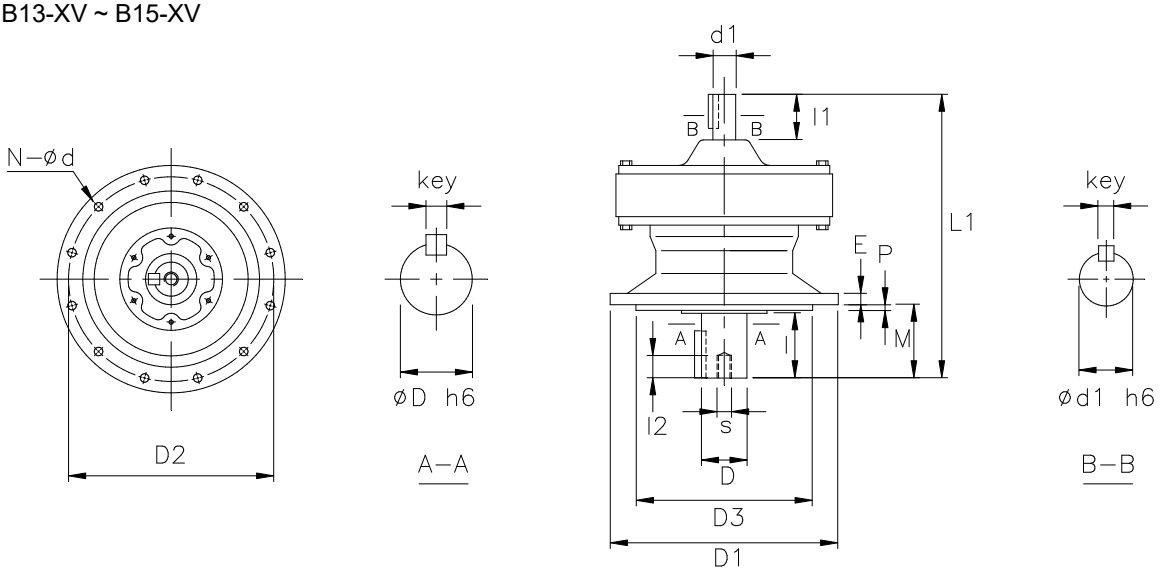
METRIC SHAFT - DOUBLE STAGE

FRAME SIZE	Dim. in mm													Dim. in mm					Dim. in mm			Wt
														Output Shaft					Input Shaft			
	C	E	F	G	H	L1	M	N	P	Q	R	V	d	D	l	Key	s	l2	D'	l'	Key	(kg)
B0707-XH	80	60	120	41	135	178	84	144	12	12	12	35	9	14	25	5 x 5 x 20	M6	12	12	25	4 x 4 x 18	4
B0807-XH	80	60	120	47	135	184	84	144	12	12	12	35	9	18	30	6 x 6 x 25	M6	12	12	25	4 x 4 x 18	5
B0908-XH	100	90	180	75	175	258	130	180	12	15	17	40	11	28	50	8 x 7 x 32	M8	18	12	25	4 x 4 x 18	12
B1008-XH	100	90	150	75	175	272	135	180	15	15	17	40	11	28	50	8 x 7 x 32	M8	18	12	25	4 x 4 x 18	15
B1109-XH	120	115	190	82	222	312	155	230	20	20	21	55	14	38	55	10 x 8 x 50	M10	18	15	25	5 x 5 x 17	29
B1310-XH	150	145	290	100	265	369	195	330	25	20	27	65	18	50	70	14 x 9 x 56	M10	18	15	25	5 x 5 x 17	46
B1409-XH	150	145	290	120	265	383	195	330	25	20	27	65	18	50	90	14 x 9 x 80	M10	18	15	25	5 x 5 x 17	45
B1611-XH	160	150	370	139	319	462	238	410	44	20	30	75	18	60	90	18 x 11 x 80	M10	18	18	35	6 x 6 x 25	95
B1711-XH	200	275	380	125	381	509	335	430	30	25	32	80	22	70	90	20 x 12 x 80	M12	24	18	35	6 x 6 x 25	128
B1813-XH	220	320	420	145	415	577	380	470	30	25	33	85	22	80	110	22 x 14 x 100	M12	24	22	40	6 x 6 x 32	185
B1911-XH	250	380	480	170	476	629	440	530	30	25	40	90	26	95	135	25 x 14 x 125	M20	34	18	35	6 x 6 x 25	240
B1913-XH	250	380	480	170	476	653	440	530	30	25	40	90	26	95	135	25 x 14 x 125	M20	34	22	40	6 x 6 x 32	250
B2011-XH	250	360	440	215	485	670	440	530	40	45	40	100	26	100	165	28 x 16 x 165	M20	34	18	35	6 x 6 x 25	260
B2013-XH	250	360	440	215	485	705	440	530	40	45	40	100	26	100	165	28 x 16 x 165	M20	34	22	40	6 x 6 x 32	270
B2113-XH	265	395	480	210	518	731	475	580	40	50	42	110	26	110	165	28 x 16 x 165	M20	34	22	40	6 x 6 x 32	360
B2116-XH	265	395	480	210	518	780	475	580	40	50	42	110	26	110	165	28 x 16 x 165	M20	34	30	45	8 x 7 x 45	380
B2213-XH	280	420	540	230	554	773	520	620	50	40	45	115	33	120	165	32 x 18 x 165	M20	34	22	40	6 x 6 x 32	360
B2217-XH	280	420	540	230	554	860	520	620	50	40	45	115	33	120	165	32 x 18 x 165	M20	34	35	55	10 x 8 x 55	480
B2316-XH	300	460	580	260	595	883	560	670	50	45	45	120	33	130	200	32 x 18 x 200	M24	41	30	45	8 x 7 x 45	550
B2318-XH	300	460	580	260	595	938	560	670	50	45	45	120	33	130	200	32 x 18 x 200	M24	41	40	65	12 x 8 x 45	580
B2416-XH	335	480	630	263	654	921	580	720	50	45	45	128	39	140	200	36 x 20 x 200	M24	41	30	45	8 x 7 x 45	660
B2418-XH	335	480	630	263	654	975	580	720	50	45	45	128	39	140	200	36 x 20 x 200	M24	41	40	65	12 x 8 x 45	690
B2517-XH	375	520	670	320	726	1081	630	780	55	55	50	140	39	160	240	40 x 22 x 240	M30	49	35	55	10 x 8 x 55	1010
B2519-XH	375	520	670	320	726	1133	630	780	55	55	50	140	39	160	240	40 x 22 x 240	M30	49	45	70	14 x 9 x 70	1090
B2619-XH	400	590	770	390	786	1243	700	880	55	55	55	160	45	170	300	40 x 22 x 300	M30	49	45	70	14 x 9 x 70	1340
B2719-XH	540	420	1050	485	1033	1504	1040	1160	100	55	60	200	45	180	330	45 x 25 x 330	M30	52	45	70	14 x 9 x 70	2480
A904-XH	290	240	560	215	556	763	560	620	40	30	40	100	26	110	170	28 x 18 x155	M20	34	22	40	6 x 6 x 32	396
A906-XH	290	240	560	215	556	810	560	620	40	30	40	100	26	110	170	28 x 18 x155	M20	34	30	45	8 x 7 x 45	420
A916-XH	325	250	630	290	625	910	600	690	50	30	40	105	26	120	210	32 x 20 x195	M24	42	30	45	8 x 7 x 45	562
A917-XH	325	250	630	290	625	937	600	690	50	30	40	105	26	120	210	32 x 20 x195	M24	42	35	55	10 x 8 x 55	592
A928-XH	420	330	800	372	800	1158	810	880	75	40	50	143	39	140	250	35 x 22 x 230	M30	52	40	65	12 x 8 x 45	1118
A939-XH	540	420	1050	485	1045	1504	1040	1160	100	55	60	200	45	180	330	42 x 26 x 265	M30	52	45	70	14 x 9 x 70	2486

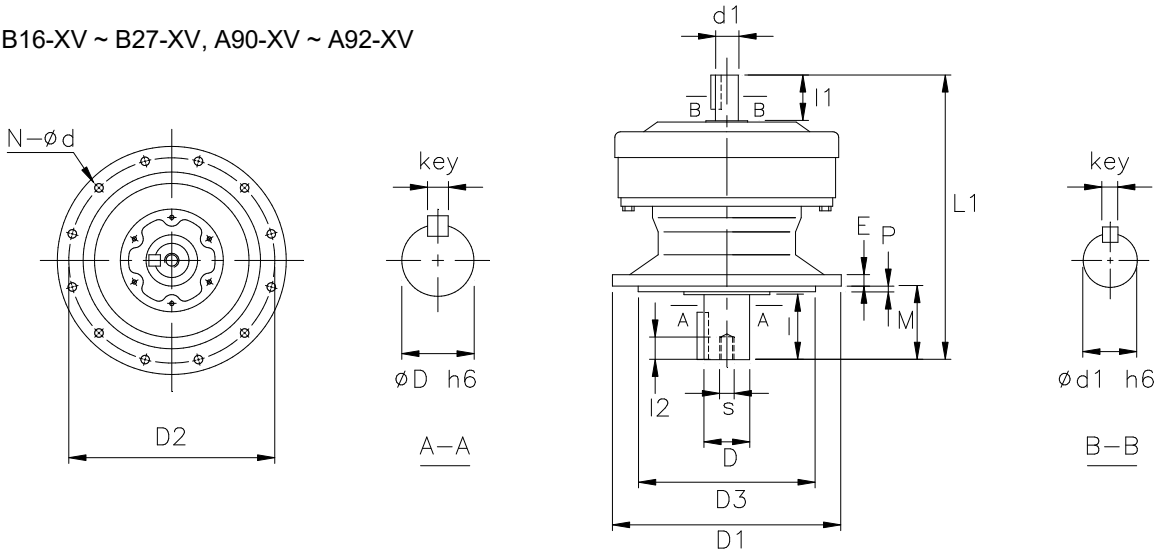
B07-XV ~ B12-XV



B13-XV ~ B15-XV



B16-XV ~ B27-XV, A90-XV ~ A92-XV



REDUCER - XV__

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

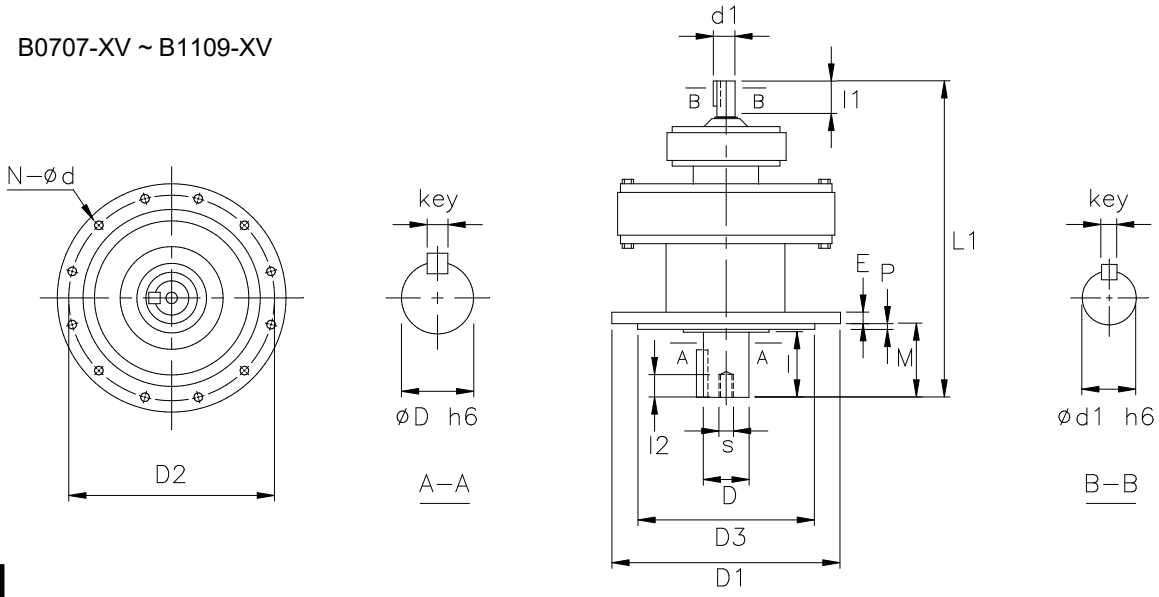
INCH SHAFT - SINGLE STAGE

	Dim. in mm									Dim. in inch					Dim. in inch			
FRAME										Output Shaft					Input Shaft			Wt
SIZE	L1	D1	D2	D3	E	M	N	d	P	D	l	Key	s	l2	d1	l1	Key	(lb)
B07-XV	145	120	102	80	8	34	6	9	3	.500	0.98	1/8 x 1/8 x .79	M6	12	.500	.98	1/8 x 1/8 x .71	8
B08-XV	151	160	134	110	9	42	4	11	3	.750	1.18	3/16 x 3/16 x 1.06	M6	12	.500	.98	1/8 x 1/8 x .71	9
B09-XV	217	160	134	110	9	63	4	11	3	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75	20
B10-XV	223	160	134	110	9	63	4	11	3	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75	24
B11-XV	259	210	180	140	13	69	6	11	4	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	51
B12-XV	259	210	180	140	13	69	6	11	4	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	51
B13-XV	321	260	230	200	15	76	6	11	4	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	93
B14-XV	341	260	230	200	15	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	95
B15-XV	341	260	230	200	15	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.95	M10	18	.875	1.57	3/16 x 3/16 x 1.38	95
B16-XV	413	340	310	270	20	89	6	11	4	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	1.125	1.77	1/4 x 1/4 x 1.77	176
B17-XV	477	400	360	316	22	94	8	14	5	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	1.375	2.17	5/16 x 5/16 x 2.17	276
B18-XV	527	430	390	345	22	110	8	18	5	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	1.500	2.56	3/8 x 3/8 x 2.56	331
B19-XV	620	490	450	400	30	145	12	18	6	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	1.750	2.76	3/8 x 3/8 x 2.56	507
B20-XV	678	455	405	355	30	204	8	22	5	3.875	6.50	1 x 1 x 6.50	M20	34	1.750	3.23	3/8 x 3/8 x 3.23	551
B21-XV	708	490	440	390	35	203	8	24	7	4.250	6.50	1 x 1 x 6.50	M20	34	1.875	3.23	1/2 x 1/2 x 3.23	705
B22-XV	752	535	475	415	35	210	8	27	10	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	2.125	3.23	1/2 x 1/2 x 3.23	893
B23-XV	839	570	510	450	40	250	8	27	10	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	2.250	4.13	1/2 x 1/2 x 4.13	1047
B24-XV	877	635	560	485	40	250	8	33	10	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	2.500	4.13	5/8 x 5/8 x 4.13	1257
B25-XV	1040	685	610	535	45	295	8	33	10	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	3.125	5.12	3/4 x 3/4 x 5.12	1918
B26-XV	1150	750	660	570	50	360	8	39	10	6.625	11.81	1.75 x 1.25 x 11.8	M30	49	3.125	5.12	3/4 x 3/4 x 5.12	2491
B27-XV	1462	1160	1020	900	60	355	8	39	10	7.000	13.0	1.75 x 1.25 x 13	M30	52	3.500	5.91	7/8 x 7/8 x 5.91	5776
A90-XV	740	580	520	455	35	190	12	22	8	4.250	6.69	1 x 1 x 6.31	M20	34	1.875	3.15	1/2 x 1/2 x 3.16	849
A91-XV	851	650	590	520	40	242	12	22	10	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	2.125	3.54	1/2 x 1/2 x 3.53	1190
A92-XV	1110	880	800	680	50	252	12	33	10	5.500	9.84	1 1/4 x 7/8 x 9.66	M30	52	2.750	4.72	5/8 x 5/8 x 4.72	2359

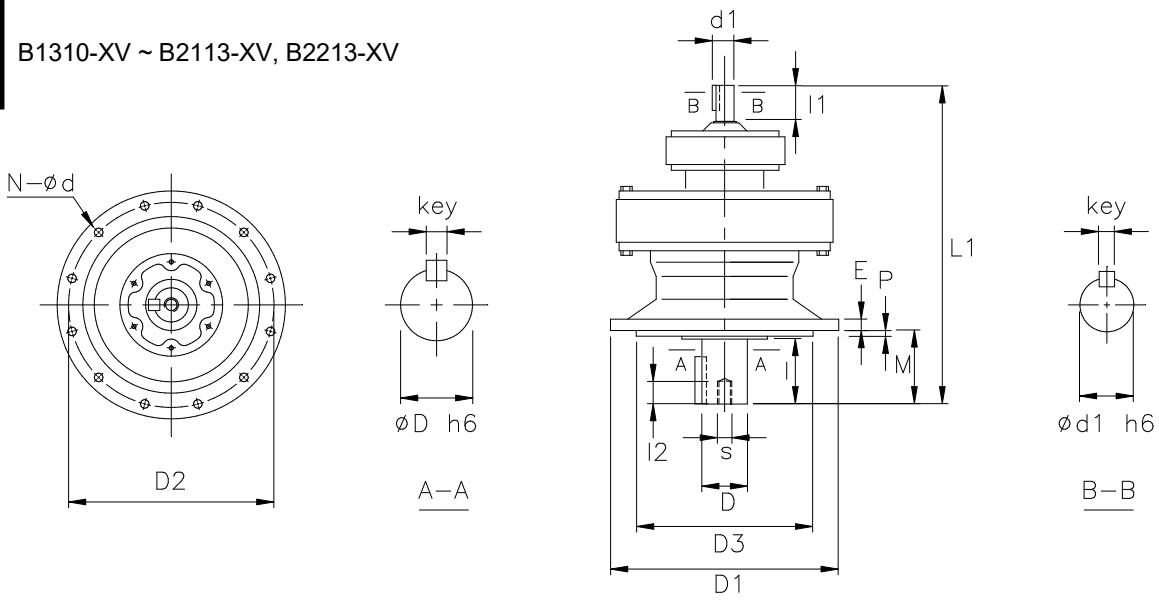
METRIC SHAFT - SINGLE STAGE

	Dim. in mm									Dim. in mm					Dim. in mm			
FRAME										Output Shaft					Input Shaft			Wt
SIZE	L1	D1	D2	D3	E	M	N	d	P	D	l	Key	s	l2	d1	l1	Key	(kg)
B07-XV	145	120	102	80	8	34	6	9	3	14	25	5 x 5 x 20	M6	12	12	25	4 x 4 x 18	4
B08-XV	151	160	134	110	9	42	4	11	3	18	30	6 x 6 x 25	M6	12	12	25	4 x 4 x 18	4
B09-XV	217	160	134	110	9	63	4	11	3	28	50	8 x 7 x 32	M8	18	15	25	5 x 5 x 17	9
B10-XV	223	160	134	110	9	63	4	11	3	28	50	8 x 7 x 32	M8	18	15	25	5 x 5 x 17	11
B11-XV	259	210	180	140	13	69	6	11	4	38	55	10 x 8 x 50	M10	18	18	35	6 x 6 x 25	23
B12-XV	259	210	180	140	13	69	6	11	4	38	55	10 x 8 x 50	M10	18	18	35	6 x 6 x 25	23
B13-XV	321	260	230	200	15	76	6	11	4	50	70	14 x 9 x 56	M10	18	22	40	6 x 6 x 32	42
B14-XV	341	260	230	200	15	96	6	11	4	50	90	14 x 9 x 80	M10	18	22	40	6 x 6 x 32	43
B15-XV	341	260	230	200	15	96	6	11	4	50	90	14 x 9 x 80	M10	18	22	40	6 x 6 x 32	43
B16-XV	413	340	310	270	20	89	6	11	4	60	90	18 x 11 x 80	M10	18	30	45	8 x 7 x 45	80
B17-XV	477	400	360	316	22	94	8	14	5	70	90	20 x 12 x 80	M12	24	35	55	10 x 8 x 55	125
B18-XV	527	430	390	345	22	110	8	18	5	80	110	22 x 14 x 100	M12	24	40	65	12 x 8 x 45	150
B19-XV	620	490	450	400	30	145	12	18	6	95	135	25 x 14 x 125	M20	34	45	70	14 x 9 x 70	230
B20-XV	678	455	405	355	30	204	8	22	5	100	165	28 x 16 x 165	M20	34	45	82	14 x 9 x 82	250
B21-XV	708	490	440	390	35	203	8	24	7	110	165	28 x 16 x 165	M20	34	50	82	14 x 9 x 82	320
B22-XV	752	535	475	415	35	210	8	27	10	120	165	32 x 18 x 165	M20	34	55	82	16 x 10 x 82	405
B23-XV	839	570	510	450	40	250	8	27	10	130	200	32 x 18 x 200	M24	41	60	105	18 x 11 x 105	475
B24-XV	877	635	560	485	40	250	8	33	10	140	200	36 x 20 x 200	M24	41	65	105	18 x 11 x 105	570
B25-XV	1040	685	610	535	45	295	8	33	10	160	240	40 x 22 x 240	M30	49	80	130	22 x 14 x 130	870
B26-XV	1150	750	660	570	50	360	8	39	10	170	300	40 x 22 x 300	M30	49	80	130	22 x 14 x 130	1130
B27-XV	1462	1160	1020	900	60	355	8	39	10	180	330	45 x 25 x 330	M30	52	90	150	25 x 14 x 135	2620
A90-XV	740	580	520	455	35	190	12	22	8	110	170	28 x 18 x155	M20	34	50	80	14 x 8 x 70	385
A91-XV	851	650	590	520	40	242	12	22	10	120	210	32 x 20 x195	M24	42	55	90	15 x 10 x 80	540
A92-XV	1110	880	800	680	50	252	12	33	10	140	250	35 x 22 x 230	M30	52	70	120	18 x 12 x 105	1070

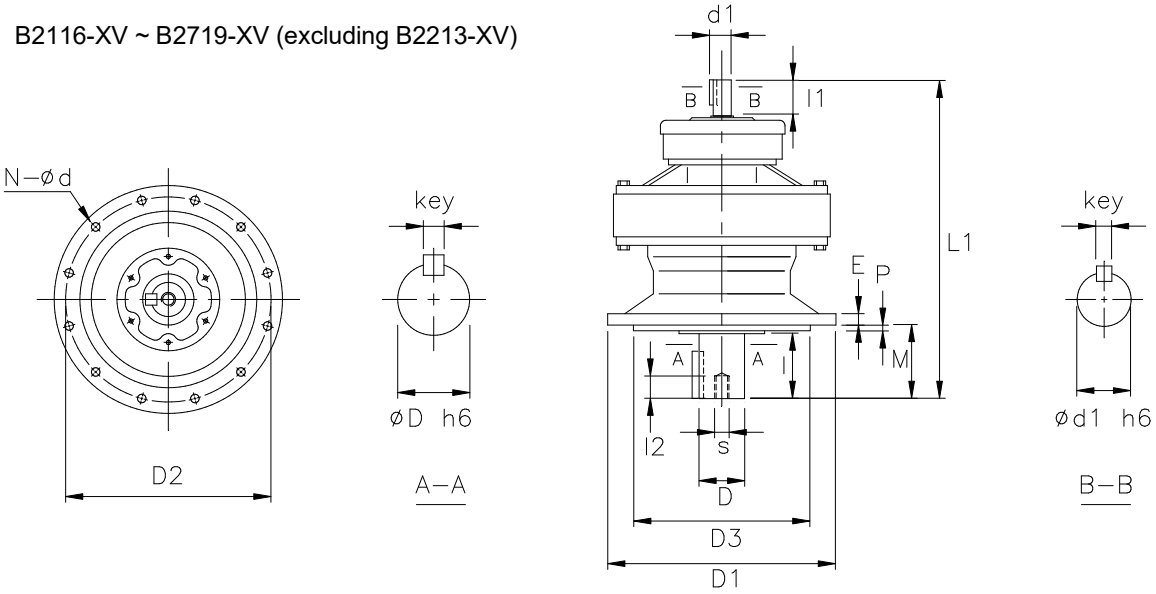
B0707-XV ~ B1109-XV



B1310-XV ~ B2113-XV, B2213-XV



B2116-XV ~ B2719-XV (excluding B2213-XV)



REDUCER - XV

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

INCH SHAFT - DOUBLE STAGE

	Dim. in mm									Dim. in inch					Dim. in inch			
FRAME										Output Shaft					Input Shaft			Wt
SIZE	L1	D1	D2	D3	E	M	N	d	P	D	l	Key	s	l2	d1	l1	Key	(lb)
B0707-XV	178	120	102	80	8	34	6	9	3	.500	0.98	1/8 x 1/8 x .79	M6	12	.500	.98	1/8 x 1/8 x .71	9
B0807-XV	184	160	134	110	9	42	4	11	3	.750	1.18	3/16 x 3/16 x 1.06	M6	12	.500	.98	1/8 x 1/8 x .71	10
B0908-XV	258	160	134	110	9	63	4	11	3	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.500	.98	1/8 x 1/8 x .71	26
B1008-XV	272	160	134	110	9	63	4	11	3	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.500	.98	1/8 x 1/8 x .71	33
B1109-XV	312	210	180	140	13	69	6	11	4	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.625	.98	3/16 x 3/16 x .75	64
B1310-XV	369	260	230	200	15	76	6	11	4	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75	101
B1409-XV	383	260	230	200	15	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75	99
B1611-XV	462	340	310	270	20	89	6	11	4	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	.750	1.38	3/16 x 3/16 x 1.02	209
B1711-XV	509	400	360	316	22	94	8	14	5	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	.750	1.38	3/16 x 3/16 x 1.02	282
B1813-XV	577	430	390	345	22	110	8	18	5	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	.875	1.57	3/16 x 3/16 x 1.38	408
B1911-XV	629	490	450	400	30	145	12	18	6	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.750	1.38	3/16 x 3/16 x 1.02	529
B1913-XV	653	490	450	400	30	145	12	18	6	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.875	1.57	3/16 x 3/16 x 1.38	551
B2011-XV	670	455	405	355	30	204	8	22	5	3.875	6.50	1 x 1 x 6.50	M20	34	.750	1.38	3/16 x 3/16 x 1.02	573
B2013-XV	705	455	405	355	30	204	8	22	5	3.875	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	595
B2113-XV	731	490	440	390	35	203	8	24	7	4.250	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	794
B2116-XV	780	490	440	390	35	203	8	24	7	4.250	6.50	1 x 1 x 6.50	M20	34	1.125	1.77	1/4 x 1/4 x 1.77	838
B2213-XV	773	535	475	415	35	210	8	27	10	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	794
B2217-XV	860	535	475	415	35	210	8	27	10	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	1.375	2.17	5/16 x 5/16 x 2.17	1058
B2316-XV	883	570	510	450	40	250	8	27	10	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77	1213
B2318-XV	938	570	510	450	40	250	8	27	10	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.500	2.56	3/8 x 3/8 x 2.56	1279
B2416-XV	921	635	560	485	40	250	8	33	10	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77	1455
B2418-XV	975	635	560	485	40	250	8	33	10	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.500	2.56	3/8 x 3/8 x 2.56	1521
B2517-XV	1081	685	610	535	45	295	8	33	10	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	1.375	2.17	5/16 x 5/16 x 2.17	2227
B2519-XV	1133	685	610	535	45	295	8	33	10	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	1.750	2.76	3/8 x 3/8 x 2.56	2403
B2619-XV	1243	750	660	570	50	360	8	39	10	6.625	11.81	1 3/4 x 1 1/4 x 11.8	M30	49	1.750	2.76	3/8 x 3/8 x 2.56	2954
B2719-XV	1504	1160	1020	900	60	355	8	39	10	7.000	13.0	1 3/4 x 1 1/4 x 13	M30	52	1.750	2.76	3/8 x 3/8 x 2.56	5467
A904-XV	763	580	520	455	35	190	12	22	8	4.250	6.69	1 x 1 x 6.31	M20	34	.875	1.57	3/16 x 3/16 x 1.38	849
A906-XV	810	580	520	455	35	190	12	22	8	4.250	6.69	1 x 1 x 6.31	M20	34	1.125	1.77	1/4 x 1/4 x 1.77	904
A916-XV	910	650	590	520	40	242	12	22	10	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.125	1.77	1/4 x 1/4 x 1.77	1325
A917-XV	937	650	590	520	40	242	12	22	10	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.375	2.17	5/16 x 5/16 x 2.17	1370
A928-XV	1158	880	800	680	50	252	12	33	10	5.500	9.84	1 1/4 x 7/8 x 9.66	M30	52	1.500	2.56	3/8 x 3/8 x 2.56	2580

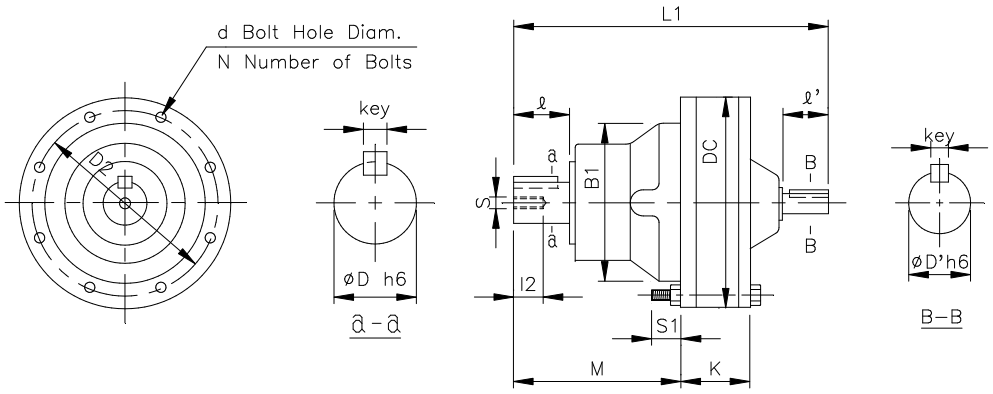
METRIC SHAFT - DOUBLE STAGE

	Dim. in mm									Dim. in mm					Dim. in mm			
FRAME										Output Shaft					Input Shaft			Wt
SIZE	L1	D1	D2	D3	E	M	N	d	P	D	l	Key	s	l2	d1	l1	Key	(kg)
B0707-XV	178	120	102	80	8	34	6	9	3	14	25	5 x 5 x 20	M6	12	12	25	4 x 4 x 18	4
B0807-XV	184	160	134	110	9	42	4	11	3	18	30	6 x 6 x 25	M6	12	12	25	4 x 4 x 18	5
B0908-XV	258	160	134	110	9	63	4	11	3	28	50	8 x 7 x 32	M8	18	12	25	4 x 4 x 18	12
B1008-XV	272	160	134	110	9	63	4	11	3	28	50	8 x 7 x 32	M8	18	12	25	4 x 4 x 18	15
B1109-XV	312	210	180	140	13	69	6	11	4	38	55	10 x 8 x 50	M10	18	15	25	5 x 5 x 17	29
B1310-XV	369	260	230	200	15	76	6	11	4	50	70	14 x 9 x 56	M10	18	15	25	5 x 5 x 17	46
B1409-XV	383	260	230	200	15	96	6	11	4	50	90	14 x 9 x 80	M10	18	15	25	5 x 5 x 17	45
B1611-XV	462	340	310	270	20	89	6	11	4	60	90	18 x 11 x 80	M10	18	18	35	6 x 6 x 25	95
B1711-XV	509	400	360	316	22	94	8	14	5	70	90	20 x 12 x 80	M12	24	18	35	6 x 6 x 25	128
B1813-XV	577	430	390	345	22	110	8	18	5	80	110	22 x 14 x 100	M12	24	22	40	6 x 6 x 32	185
B1911-XV	629	490	450	400	30	145	12	18	6	95	135	25 x 14 x 125	M20	34	18	35	6 x 6 x 25	240
B1913-XV	653	490	450	400	30	145	12	18	6	95	135	25 x 14 x 125	M20	34	22	40	6 x 6 x 32	250
B2011-XV	670	455	405	355	30	204	8	22	5	100	165	28 x 16 x 165	M20	34	18	35	6 x 6 x 25	260
B2013-XV	705	455	405	355	30	204	8	22	5	100	165	28 x 16 x 165	M20	34	22	40	6 x 6 x 32	270
B2113-XV	731	490	440	390	35	203	8	24	7	110	165	28 x 16 x 165	M20	34	22	40	6 x 6 x 32	360
B2116-XV	780	490	440	390	35	203	8	24	7	110	165	28 x 16 x 165	M20	34	30	45	8 x 7 x 45	380
B2213-XV	773	535	475	415	35	210	8	27	10	120	165	32 x 18 x 165	M20	34	22	40	6 x 6 x 32	360
B2217-XV	860	535	475	415	35	210	8	27	10	120	165	32 x 18 x 165	M20	34	35	55	10 x 8 x 55	480
B2316-XV	883	570	510	450	40	250	8	27	10	130	200	32 x 18 x 200	M24	41	30	45	8 x 7 x 45	550
B2318-XV	938	570	510	450	40	250	8	27	10	130	200	32 x 18 x 200	M24	41	40	65	12 x 8 x 45	580
B2416-XV	921	635	560	485	40	250	8	33	10	140	200	36 x 20 x 200	M24	41	30	45	8 x 7 x 45	660
B2418-XV	975	635	560	485	40	250	8	33	10	140	200	36 x 20 x 200	M24	41	40	65	12 x 8 x 45	690
B2517-XV	1081	685	610	535	45	295	8	33	10	160	240	40 x 22 x 240	M30	49	35	55	10 x 8 x 55	1010
B2519-XV	1133	685	610	535	45	295	8	33	10	160	240	40 x 22 x 240	M30	49	45	70	14 x 9 x 70	1090
B2619-XV	1243	750	660	570	50	360	8	39	10	170	300	40 x 22 x 300	M30	49	45	70	14 x 9 x 70	1340
B2719-XV	1504	1160	1020	900	60	355	8	39	10	180	330	45 x 25 x 330	M30	52	45	70	14 x 9 x 70	2480
A904-XV	763	580	520	455	35	190	12	22	8	110	170	28 x 18 x155	M20	34	22	40	6 x 6 x 32	385
A906-XV	810	580	520	455	35	190	12	22	8	110	170	28 x 18 x155	M20	34	30	45	8 x 7 x 45	410
A916-XV	910	650	590	520	40	242	12	22	10	120	210	32 x 20 x195	M24	42	30	45	8 x 7 x 45	601
A917-XV	937	650	590	520	40	242	12	22	10	120	210	32 x 20 x195	M24	42	35	55	10 x 8 x 55	621
A928-XV	1158	880	800	680	50	252	12	33	10	140	250	35 x 22 x 230	M30	52	40	65	12 x 8 x 45	1170

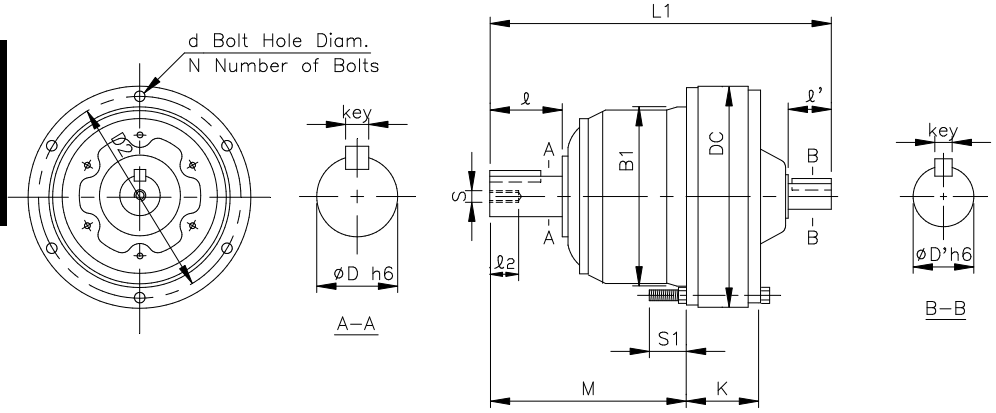
REDUCER - XF

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

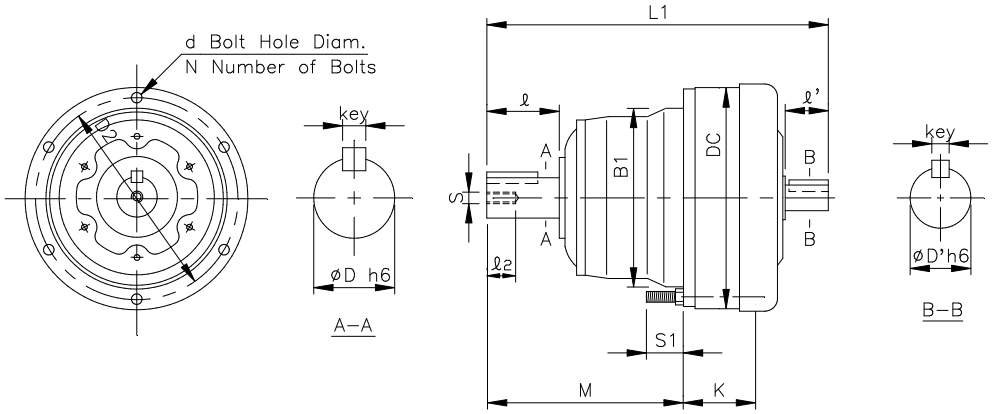
SINGLE STAGE



B07-XF ~ B12-XF

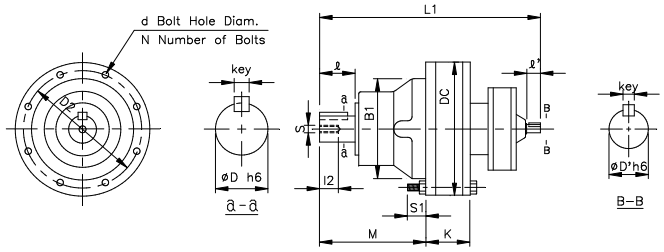


B13-XF ~ B15-XF

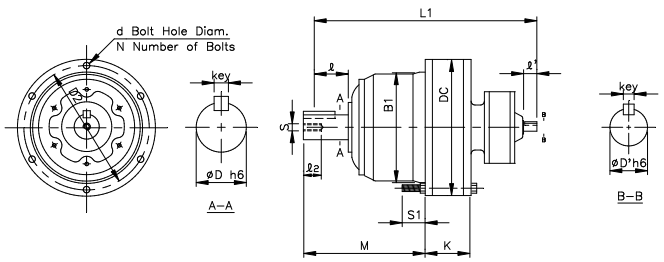


B16-XF ~ B17-XF

DOUBLE STAGE



B0707-XF ~ B1109-XF



B1310-XF ~ B1711-XF

REDUCER - XF__

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

SINGLE STAGE

INCH SHAFT

	Dim. in mm									Dim. in inch					Dim. in inch			
FRAME										Output Shaft					Input Shaft			Wt
SIZE	B1	DC	M	K	S1	L1	D2	d	N	D	l	Key	s	l2	D'	l'	Key	(lb)
B07-XF	75	110	69	32	27	145	98	7	6	.500	0.98	1/8 x 1/8 x .79	M6	12	.500	.98	1/8 x 1/8 x .71	6
B08-XF	80	110	75	32	26	151	98	7	6	.750	1.18	3/16 x 3/16 x 1.06	M6	12	.500	.98	1/8 x 1/8 x .71	7
B09-XF	105	150	129	38	26	217	134	9	8	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75	17
B10-XF	105	150	129	56	27	223	134	9	8	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75	21
B11-XF	140	204	139	61	28	259	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	44
B12-XF	140	204	139	61	28	259	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	44
B13-XF	165	230	177	75	30	321	205	11	6	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	80
B14-XF	165	230	197	75	30	341	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	82
B15-XF	165	230	197	75	30	341	205	11	6	1.875	3.54	1/2 x 1/2 x 2.95	M10	18	.875	1.57	3/16 x 3/16 x 1.38	82
B16-XF	200	318	222	102	40	413	270	14	6	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	1.125	1.77	1/4 x 1/4 x 1.77	146
B17-XF	250	362	262	110	45	477	300	15	8	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	1.375	2.17	5/16 x 5/16 x 2.17	212

METRIC SHAFT

	Dim. in mm									Dim. in mm					Dim. in mm			
FRAME										Output Shaft					Input Shaft			Wt
SIZE	B1	DC	M	K	S1	L1	D2	d	N	D	l	Key	s	l2	D'	l'	Key	(kg)
B07-XF	75	110	69	32	27	145	98	7	6	14	25	5 x 5 x 20	M6	12	12	25	4 x 4 x 18	3
B08-XF	80	110	75	32	26	151	98	7	6	18	30	6 x 6 x 25	M6	12	12	25	4 x 4 x 18	3
B09-XF	105	150	129	38	26	217	134	9	8	28	50	8 x 7 x 32	M8	18	15	25	5 x 5 x 17	8
B10-XF	105	150	129	56	27	223	134	9	8	28	50	8 x 7 x 32	M8	18	15	25	5 x 5 x 17	10
B11-XF	140	204	139	61	28	259	180	11	6	38	55	10 x 8 x 50	M10	18	18	35	6 x 6 x 25	20
B12-XF	140	204	139	61	28	259	180	11	6	38	55	10 x 8 x 50	M10	18	18	35	6 x 6 x 25	20
B13-XF	165	230	177	75	30	321	205	11	6	50	70	14 x 9 x 56	M10	18	22	40	6 x 6 x 32	36
B14-XF	165	230	197	75	30	341	205	11	6	50	90	14 x 9 x 80	M10	18	22	40	6 x 6 x 32	37
B15-XF	165	230	197	75	30	341	205	11	6	50	90	14 x 9 x 80	M10	18	22	40	6 x 6 x 32	37
B16-XF	200	318	222	102	40	413	270	14	6	60	90	18 x 11 x 80	M10	18	30	45	8 x 7 x 45	66
B17-XF	250	362	262	110	45	477	300	15	8	70	90	20 x 12 x 80	M12	24	35	55	10 x 8 x 55	96

DOUBLE STAGE

INCH SHAFT

	Dim. in mm									Dim. in inch					Dim. in inch			
FRAME										Output Shaft					Input Shaft			Wt
SIZE	B1	DC	M	K	S1	L1	D2	d	N	D	l	Key	s	l2	D1	l1	Key	(lb)
B0707-XF	75	110	69	32	27	178	98	7	6	.500	0.98	1/8 x 1/8 x .79	M6	12	.500	.98	1/8 x 1/8 x .71	14
B0807-XF	80	110	75	32	26	184	98	7	6	.750	1.18	3/16 x 3/16 x 1.06	M6	12	.500	.98	1/8 x 1/8 x .71	20
B0908-XF	105	150	129	38	26	258	134	9	8	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.500	.98	1/8 x 1/8 x .71	30
B1008-XF	105	150	129	56	27	272	134	9	8	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.500	.98	1/8 x 1/8 x .71	33
B1109-XF	140	204	139	61	28	312	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.625	.98	3/16 x 3/16 x .75	53
B1310-XF	165	230	177	75	30	369	205	11	6	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75	90
B1409-XF	165	230	197	75	30	383	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75	93
B1611-XF	200	318	222	102	40	462	270	14	6	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	.750	1.38	3/16 x 3/16 x 1.02	174
B1711-XF	250	362	262	110	45	509	300	15	8	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	.750	1.38	3/16 x 3/16 x 1.02	243

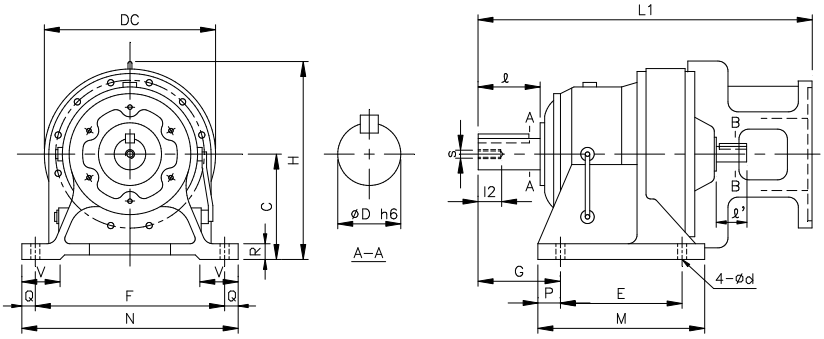
METRIC SHAFT

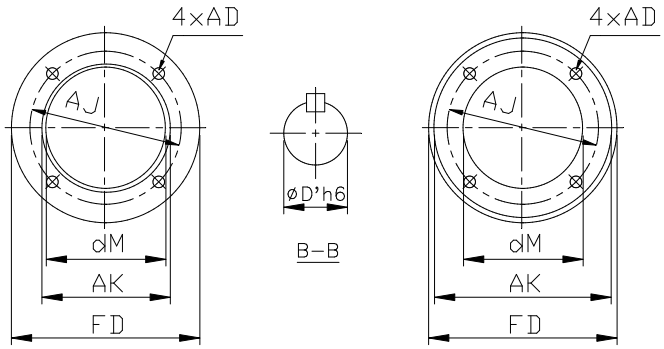
	Dim. in mm									Dim. in mm					Dim. in mm			
FRAME										Output Shaft					Input Shaft			Wt
SIZE	B1	DC	M	K	S1	L1	D2	d	N	D	l	Key	s	l2	D1	l1	Key	(lb)
B0707-XF	75	110	69	32	27	178	98	7	6	14	25	5 x 5 x 20	M6	12	12	25	4 x 4 x 18	6
B0807-XF	80	110	75	32	26	184	98	7	6	18	30	6 x 6 x 25	M6	12	12	25	4 x 4 x 18	9
B0908-XF	105	150	129	38	26	258	134	9	8	28	50	8 x 7 x 32	M8	18	12	25	4 x 4 x 18	14
B1008-XF	105	150	129	56	27	272	134	9	8	28	50	8 x 7 x 32	M8	18	12	25	4 x 4 x 18	15
B1109-XF	140	204	139	61	28	312	180	11	6	38	55	10 x 8 x 50	M10	18	15	25	5 x 5 x 17	24
B1310-XF	165	230	177	75	30	369	205	11	6	50	70	14 x 9 x 56	M10	18	15	25	5 x 5 x 17	41
B1409-XF	165	230	197	75	30	383	205	11	6	50	90	14 x 9 x 80	M10	18	15	25	5 x 5 x 17	42
B1611-XF	200	318	222	102	40	462	270	14	6	60	90	18 x 11 x 80	M10	18	18	35	6 x 6 x 25	79
B1711-XF	250	362	262	110	45	509	300	15	8	70	90	20 x 12 x 80	M12	24	18	35	6 x 6 x 25	110

REDUCER w/ NEMA C-Face Adapter - AH

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

INCH SHAFT - SINGLE STAGE
(Users Provide Own Couplings)





NEMA 56C, 143/145

NEMA 182/184 & above

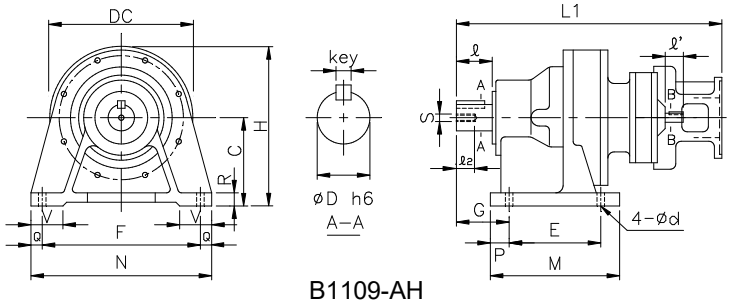
DARALI Frame	Motor Frame	C-Face Adapter dM	AK	FD	AJ	AD	Wt (lb)
		Dim. in inch					
B09-AH	56C	3.543	4.500	6.625	5.875	0.433	32
	143/145	3.543	4.500	6.625	5.875	0.433	32
B10-AH	56C	3.543	4.500	6.625	5.875	0.433	36
	143/145	3.543	4.500	6.625	5.875	0.433	36
B11-AH	56C	3.543	4.500	6.625	5.875	0.433	62
	143/145	3.543	4.500	6.625	5.875	0.433	62
	182/184	4.724	8.500	8.878	7.250	0.551	66
B12-AH	56C	3.543	4.500	6.625	5.875	0.433	64
	143/145	3.543	4.500	6.625	5.875	0.433	64
	182/184	4.724	8.500	8.878	7.250	0.551	70
B13-AH	56C	3.543	4.500	6.625	5.875	0.433	107
	143/145	3.543	4.500	6.625	5.875	0.433	107
	182/184	5.276	8.500	8.878	7.250	0.551	111
	213/215	5.276	8.500	8.878	7.250	0.551	117
B14-AH	56C	3.543	4.500	6.625	5.875	0.433	109
	143/145	3.543	4.500	6.625	5.875	0.433	109
	182/184	5.276	8.500	8.878	7.250	0.551	113
	213/215	5.276	8.500	8.878	7.250	0.551	119
B15-AH	56C	3.543	4.500	6.625	5.875	0.433	114
	143/145	3.543	4.500	6.625	5.875	0.433	114
	182/184	5.276	8.500	8.878	7.250	0.551	118
	213/215	5.276	8.500	8.878	7.250	0.551	124
B16-AH	182/184	5.315	8.500	8.878	7.250	0.551	231
	213/215	5.315	8.500	9.000	7.250	0.551	237
	254/256	5.315	8.500	9.626	7.250	0.551	237
B17-AH	182/184	5.315	8.500	8.878	7.250	0.551	303
	213/215	5.315	8.500	9.000	7.250	0.551	309
	254/256	5.315	8.500	9.626	7.250	0.551	309
B18-AH	254/256	5.354	8.500	9.626	7.250	0.551	387
	284/286	5.354	10.500	11.000	9.000	0.551	394
B19-AH	284/286	6.614	10.500	11.000	9.000	0.551	600

DARALI Frame	Motor Frame	Dim. in mm C	DC	E	F	G	H	L1	M	N	P	Q	R	V	d	Dim. in inch Output Shaft D	l	Key	s	l2	Dim. in inch Input Shaft D'	l'	Key
B09-AH	56C	100	150	90	150	75	184	284	130	180	15	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75
	143/145	100	150	90	150	75	184	284	130	180	15	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75
B10-AH	56C	100	150	90	150	75	184	291	135	180	15	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75
	143/145	100	150	90	150	75	184	291	135	180	15	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75
B11-AH	56C	120	204	115	190	82	222	326	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02
	143/145	120	204	115	190	82	222	326	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02
	182/184	120	204	115	190	82	232	345	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02
B12-AH	56C	140	204	115	190	82	242	326	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02
	143/145	140	204	115	190	82	242	326	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02
	182/184	140	204	115	190	82	252	345	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02
B13-AH	56C	150	230	145	290	100	265	388	195	330	25	20	27	65	18	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38
	143/145	150	230	145	290	100	265	388	195	330	25	20	27	65	18	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38
	182/184	150	230	145	290	100	265	407	195	330	25	20	27	65	18	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38
	213/215	150	230	145	290	100	265	423	195	330	25	20	27	65	18	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38
B14-AH	56C	150	230	145	290	120	265	408	195	330	25	20	27	65	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38
	143/145	150	230	145	290	120	265	408	195	330	25	20	27	65	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38
	182/184	150	230	145	290	120	265	427	195	330	25	20	27	65	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38
	213/215	150	230	145	290	120	265	443	195	330	25	20	27	65	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38
B15-AH	56C	160	230	145	290	120	275	408	195	330	25	20	27	70	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38
	143/145	160	230	145	290	120	275	408	195	330	25	20	27	70	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38
	182/184	160	230	145	290	120	275	427	195	330	25	20	27	70	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38
	213/215	160	230	145	290	120	275	443	195	330	25	20	27	70	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38
B16-AH	182/184	160	318	150	370	139	319	499	238	410	44	20	30	75	18	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	1.125	1.77	1/4 x 1/4 x 1.77
	213/215	160	318	150	370	139	319	523	238	410	44	20	30	75	18	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	1.125	1.77	1/4 x 1/4 x 1.77
	254/256	160	318	150	370	139	319	534	238	410	44	20	30	75	18	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	1.125	1.77	1/4 x 1/4 x 1.77
B17-AH	182/184	200	362	275	380	125	381	563	335	430	30	25	32	80	22	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	1.375	2.17	5/16 x 5/16 x 2.17
	213/215	200	362	275	380	125	381	579	335	430	30	25	32	80	22	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	1.375	2.17	5/16 x 5/16 x 2.17
	254/256	200	362	275	380	125	381	598	335	430	30	25	32	80	22	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	1.375	2.17	5/16 x 5/16 x 2.17
B18-AH	254/256	220	390	320	420	145	415	648	380	470	30	25	33	85	22	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	1.500	2.56	3/8 x 3/8 x 2.56
	284/286	220	390	320	420	145	415	664	380	470	30	25	33	85	22	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	1.500	2.56	3/8 x 3/8 x 2.56
B19-AH	284/286	250	451	380	480	170	476	757	440	530	30	25	40	90	26	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	1.750	2.76	3/8 x 3/8 x 2.56

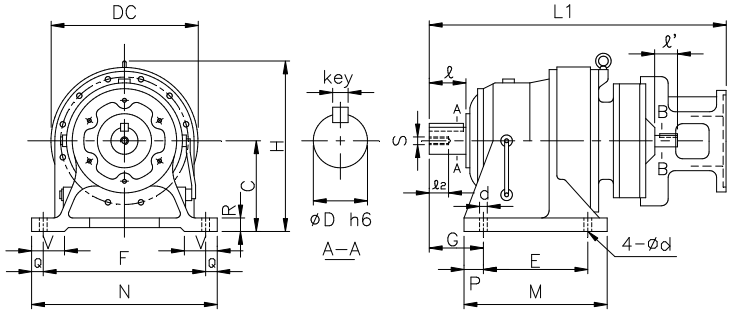
REDUCER w/ NEMA C-Face Adapter - AH___

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

INCH SHAFT - DOUBLE STAGE
(Users Provide Own Couplings)

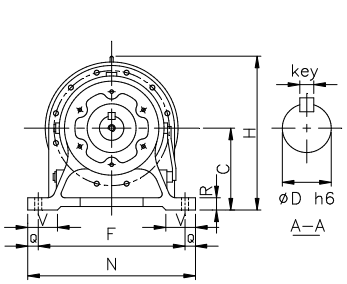


B1109-AH

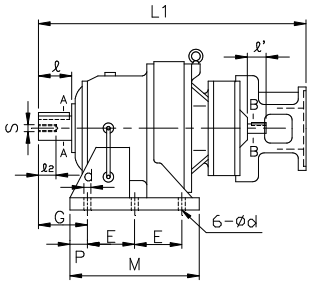


B1310-AH ~ B1813-AH

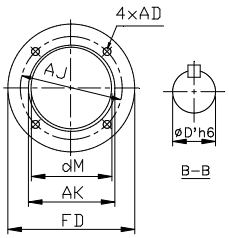
FRAME SIZE	Motor Frame	Dim. in inch: C-Face Adapter dM	AK	FD	AJ	AD	Wt (lb)
B1109-AH	56C	3.543	4.500	6.625	5.875	0.433	71
	143/145	3.543	4.500	6.625	5.875	0.433	71
B1310-AH	56C	3.543	4.500	6.625	5.875	0.433	124
	143/145	3.543	4.500	6.625	5.875	0.433	124
B1409-AH	56C	3.543	4.500	6.625	5.875	0.433	118
	143/145	3.543	4.500	6.625	5.875	0.433	118
B1611-AH	56C	3.543	4.500	6.625	5.875	0.433	217
	143/145	3.543	4.500	6.625	5.875	0.433	217
	182/184	4.724	8.500	8.878	7.250	0.551	221
B1711-AH	56C	3.543	4.500	6.625	5.875	0.433	280
	143/145	3.543	4.500	6.625	5.875	0.433	280
	182/184	4.724	8.500	8.878	7.250	0.551	284
B1813-AH	56C	3.543	4.500	6.625	5.875	0.433	376
	143/145	3.543	4.500	6.625	5.875	0.433	376
	182/184	5.276	8.500	8.878	7.250	0.551	380
	213/215	5.276	8.500	8.878	7.250	0.551	386
B1911-AH	56C	3.543	4.500	6.625	5.875	0.433	541
	143/145	3.543	4.500	6.625	5.875	0.433	541
	182/184	4.724	8.500	8.878	7.250	0.551	545
B1913-AH	56C	3.543	4.500	6.625	5.875	0.433	552
	143/145	3.543	4.500	6.625	5.875	0.433	552
	182/184	5.276	8.500	8.878	7.250	0.551	567
	213/215	5.276	8.500	8.878	7.250	0.551	573



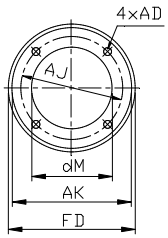
B1911-AH ~ B2619-AH



B2719-AH,
A904-AH ~ A939-AH
(w/ 6 Mounting Holes)



NEMA
56C, 143/145



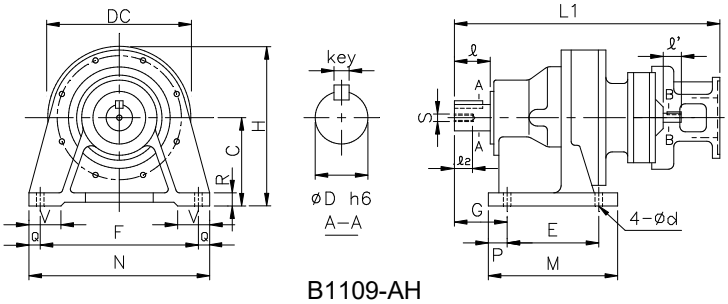
NEMA
182/184 & above

FRAME SIZE	Motor Frame	Dim. in mm C	E	F	G	H	L1	M	N	P	Q	R	V	d	Dim. in inch: Output Shaft D	l	Key	s	l2	Dim. in inch: Input Shaft D1	l1	Key
B1109-AH	56C	120	115	190	82	222	379	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.625	.98	3/16 x 3/16 x .75
	143/145	120	115	190	82	222	379	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.625	.98	3/16 x 3/16 x .75
B1310-AH	56C	150	145	290	100	265	433	195	330	25	20	27	65	18	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75
	143/145	150	145	290	100	265	433	195	330	25	20	27	65	18	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75
B1409-AH	56C	150	145	290	120	265	450	195	330	25	20	27	65	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75
	143/145	150	145	290	120	265	450	195	330	25	20	27	65	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75
B1611-AH	56C	160	150	370	139	319	528	238	410	44	20	30	75	18	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	.750	1.38	3/16 x 3/16 x 1.02
	143/145	160	150	370	139	319	528	238	410	44	20	30	75	18	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	.750	1.38	3/16 x 3/16 x 1.02
	182/184	160	150	370	139	319	547	238	410	44	20	30	75	18	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	.750	1.38	3/16 x 3/16 x 1.02
B1711-AH	56C	200	275	380	125	381	575	335	430	30	25	32	80	22	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	.750	1.38	3/16 x 3/16 x 1.02
	143/145	200	275	380	125	381	575	335	430	30	25	32	80	22	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	.750	1.38	3/16 x 3/16 x 1.02
	182/184	200	275	380	125	381	594	335	430	30	25	32	80	22	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	.750	1.38	3/16 x 3/16 x 1.02
B1813-AH	56C	220	320	420	145	415	644	380	470	30	25	33	85	22	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	.875	1.57	3/16 x 3/16 x 1.38
	143/145	220	320	420	145	415	644	380	470	30	25	33	85	22	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	.875	1.57	3/16 x 3/16 x 1.38
	182/184	220	320	420	145	415	663	380	470	30	25	33	85	22	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	.875	1.57	3/16 x 3/16 x 1.38
	213/215	220	320	420	145	415	679	380	470	30	25	33	85	22	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	.875	1.57	3/16 x 3/16 x 1.38
B1911-AH	56C	250	380	480	170	476	695	440	530	30	25	40	90	26	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.750	1.38	3/16 x 3/16 x 1.02
	143/145	250	380	480	170	476	695	440	530	30	25	40	90	26	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.750	1.38	3/16 x 3/16 x 1.02
	182/184	250	380	480	170	476	714	440	530	30	25	40	90	26	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.750	1.38	3/16 x 3/16 x 1.02
B1913-AH	56C	250	380	480	170	476	720	440	530	30	25	40	90	26	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.875	1.57	3/16 x 3/16 x 1.38
	143/145	250	380	480	170	476	720	440	530	30	25	40	90	26	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.875	1.57	3/16 x 3/16 x 1.38
	182/184	250	380	480	170	476	739	440	530	30	25	40	90	26	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.875	1.57	3/16 x 3/16 x 1.38
	213/215	250	380	480	170	476	755	440	530	30	25	40	90	26	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.875	1.57	3/16 x 3/16 x 1.38

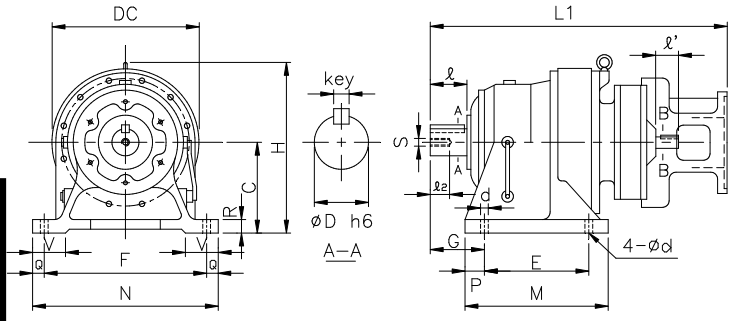
REDUCER w/ NEMA C-Face Adapter - AH___

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

INCH SHAFT - DOUBLE STAGE
(Users Provide Own Couplings)



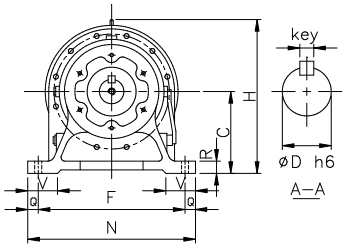
B1109-AH



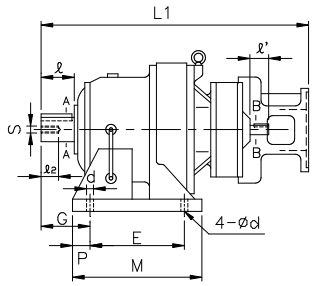
B1310-AH ~ B1813-AH

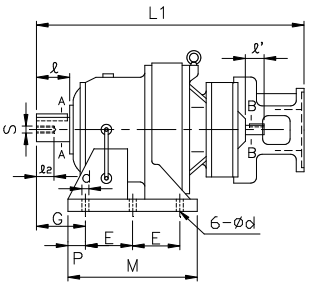
Dim. in inch

FRAME SIZE	Motor Frame	C-Face Adapter dM	AK	FD	AJ	AD	Wt (lb)
B2011-AH	56C	3.543	4.500	6.625	5.875	0.433	583
	143/145	3.543	4.500	6.625	5.875	0.433	583
	182/184	4.724	8.500	8.878	7.250	0.551	587
B2013-AH	56C	3.543	4.500	6.625	5.875	0.433	614
	143/145	3.543	4.500	6.625	5.875	0.433	614
	182/184	5.276	8.500	8.878	7.250	0.551	618
	213/215	5.276	8.500	8.878	7.250	0.551	624
B2113-AH	56C	3.543	4.500	6.625	5.875	0.433	793
	143/145	3.543	4.500	6.625	5.875	0.433	793
	182/184	5.276	8.500	8.878	7.250	0.551	796
	213/215	5.276	8.500	8.878	7.250	0.551	803
B2116-AH	182/184	5.315	8.500	8.878	7.250	0.551	871
	213/215	5.315	8.500	9.000	7.250	0.551	875
	254/256	5.315	8.500	9.626	7.250	0.551	881
B2213-AH	56C	3.543	4.500	6.625	5.875	0.433	958
	143/145	3.543	4.500	6.625	5.875	0.433	958
	182/184	5.276	8.500	8.878	7.250	0.551	962
	213/215	5.276	8.500	8.878	7.250	0.551	968
B2217-AH	182/184	5.315	8.500	8.878	7.250	0.551	1088
	213/215	5.315	8.500	9.000	7.250	0.551	1090
	254/256	5.315	8.500	9.626	7.250	0.551	1094
B2316-AH	182/184	5.315	8.500	8.878	7.250	0.551	1254
	213/215	5.315	8.500	9.000	7.250	0.551	1257
	254/256	5.315	8.500	9.626	7.250	0.551	1261
B2318-AH	254/256	5.354	8.500	9.626	7.250	0.551	1340
	284/286	5.354	10.500	11.000	9.000	0.551	1345

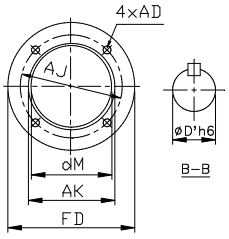


B1911-AH ~ B2619-AH

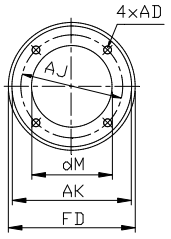




B2719-AH,
A904-AH ~ A939-AH
(w/ 6 Mounting Holes)



NEMA
56C, 143/145



NEMA
182/184 & above

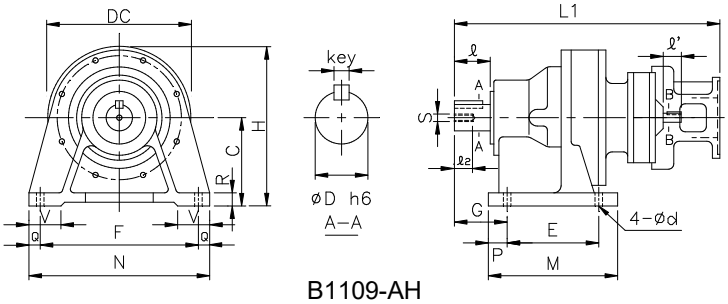
Dim. in mm | Dim. in inch | Dim. in inch

FRAME SIZE	Motor Frame	C	E	F	G	H	L1	M	N	P	Q	R	V	d	Output Shaft D	l	Key	s	l2	Input Shaft D1	l1	Key
B2011-AH	56C	250	360	440	215	485	736	440	530	40	45	40	100	26	3.875	6.50	1 x 1 x 6.50	M20	34	.750	1.38	3/16 x 3/16 x 1.02
	143/145	250	360	440	215	485	736	440	530	40	45	40	100	26	3.875	6.50	1 x 1 x 6.50	M20	34	.750	1.38	3/16 x 3/16 x 1.02
	182/184	250	360	440	215	485	755	440	530	40	45	40	100	26	3.875	6.50	1 x 1 x 6.50	M20	34	.750	1.38	3/16 x 3/16 x 1.02
B2013-AH	56C	250	360	440	215	485	772	440	530	40	45	40	100	26	3.875	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38
	143/145	250	360	440	215	485	772	440	530	40	45	40	100	26	3.875	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38
	182/184	250	360	440	215	485	791	440	530	40	45	40	100	26	3.875	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38
	213/215	250	360	440	215	485	807	440	530	40	45	40	100	26	3.875	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38
B2113-AH	56C	265	395	480	210	518	798	475	580	40	50	42	110	26	4.250	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38
	143/145	265	395	480	210	518	798	475	580	40	50	42	110	26	4.250	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38
	182/184	265	395	480	210	518	817	475	580	40	50	42	110	26	4.250	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38
	213/215	265	395	480	210	518	833	475	580	40	50	42	110	26	4.250	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38
B2116-AH	182/184	265	395	480	210	518	864	475	580	40	50	42	110	26	4.250	6.50	1 x 1 x 6.50	M20	34	1.125	1.77	1/4 x 1/4 x 1.77
	213/215	265	395	480	210	518	888	475	580	40	50	42	110	26	4.250	6.50	1 x 1 x 6.50	M20	34	1.125	1.77	1/4 x 1/4 x 1.77
	254/256	265	395	480	210	518	899	475	580	40	50	42	110	26	4.250	6.50	1 x 1 x 6.50	M20	34	1.125	1.77	1/4 x 1/4 x 1.77
B2213-AH	56C	280	420	540	230	554	840	520	620	50	40	42	115	33	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38
	143/145	280	420	540	230	554	840	520	620	50	40	42	115	33	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38
	182/184	280	420	540	230	554	859	520	620	50	40	42	115	33	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38
	213/215	280	420	540	230	554	875	520	620	50	40	42	115	33	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38
B2217-AH	182/184	280	420	540	230	554	941	520	620	50	40	42	115	33	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	1.375	2.17	5/16 x 5/16 x 2.17
	213/215	280	420	540	230	554	957	520	620	50	40	42	115	33	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	1.375	2.17	5/16 x 5/16 x 2.17
	254/256	280	420	540	230	554	976	520	620	50	40	42	115	33	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	1.375	2.17	5/16 x 5/16 x 2.17
B2316-AH	182/184	300	460	580	260	595	967	560	670	50	45	45	120	33	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77
	213/215	300	460	580	260	595	991	560	670	50	45	45	120	33	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77
	254/256	300	460	580	260	595	1002	560	670	50	45	45	120	33	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77
B2318-AH	254/256	300	460	580	260	595	1051	560	670	50	45	45	120	33	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.500	2.56	3/8 x 3/8 x 2.56
	284/286	300	460	580	260	595	1067	560	670	50	45	45	120	33	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.500	2.56	3/8 x 3/8 x 2.56

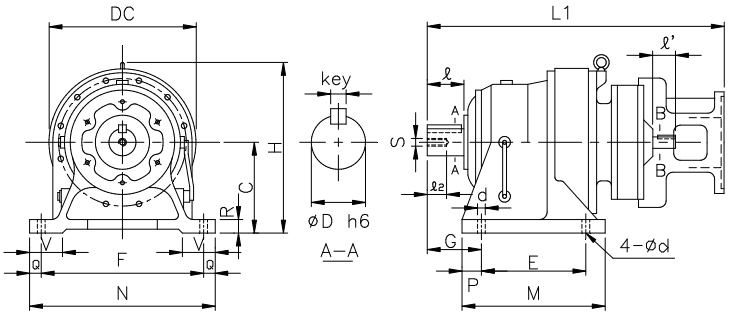
REDUCER w/ NEMA C-Face Adapter - AH___

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

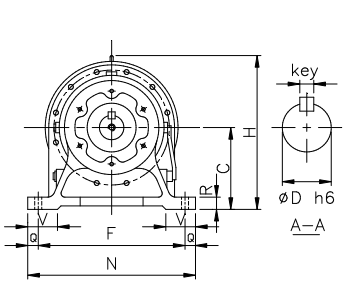
INCH SHAFT - DOUBLE STAGE
(Users Provide Own Couplings)



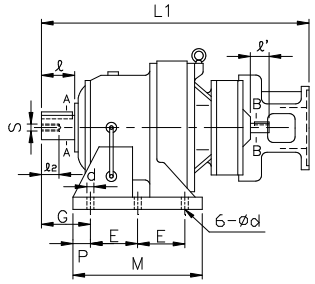
B1109-AH



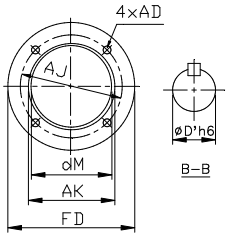
FRAME SIZE	Motor Frame	Dim. in inch C-Face Adapter dM	AK	FD	AJ	AD	Wt (lb)
B2416-AH	182/184	5.315	8.500	8.878	7.250	0.551	1493
	213/215	5.315	8.500	9.000	7.250	0.551	1495
	254/256	5.315	8.500	9.626	7.250	0.551	1499
B2418-AH	254/256	5.354	8.500	9.626	7.250	0.551	1569
	284/286	5.354	10.500	11.000	9.000	0.551	1574
B2517-AH	182/184	5.315	8.500	8.878	7.250	0.551	2165
	213/215	5.315	8.500	9.000	7.250	0.551	2267
	254/256	5.315	8.500	9.626	7.250	0.551	2271
B2519-AH	284/286	6.614	10.500	11.000	9.000	0.551	2464
B2619-AH	284/286	6.614	10.500	11.000	9.000	0.551	3026
B2719-AH	284/286	6.614	10.500	11.000	9.000	0.551	5540
A904-AH	56C	3.543	4.500	6.625	5.875	0.433	883
	143/145	3.543	4.500	6.625	5.875	0.433	883
	182/184	5.276	8.500	8.878	7.250	0.551	887
	213/215	5.276	8.500	8.878	7.250	0.551	896
A906-AH	182/184	5.315	8.500	8.878	7.250	0.551	976
	213/215	5.315	8.500	9.000	7.250	0.551	981
	254/256	5.315	8.500	9.626	7.250	0.551	986
A916-AH	182/184	5.315	8.500	8.878	7.250	0.551	1285
	213/215	5.315	8.500	9.000	7.250	0.551	1290
	254/256	5.315	8.500	9.626	7.250	0.551	1295
A917-AH	182/184	5.315	8.500	8.878	7.250	0.551	1350
	213/215	5.315	8.500	9.000	7.250	0.551	1355
	254/256	5.315	8.500	9.626	7.250	0.551	1365
A928-AH	254/256	5.354	8.500	9.626	7.250	0.551	2535
	284/286	5.354	10.500	11.000	9.000	0.551	2540
A939-AH	284/286	6.614	10.500	11.000	9.000	0.551	5570



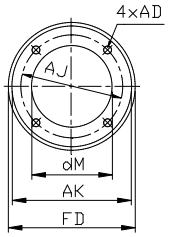
B1911-AH ~ B2619-AH



B2719-AH,
A904-AH ~ A939-AH



NEMA
56C, 143/145



NEMA
182/184 & above

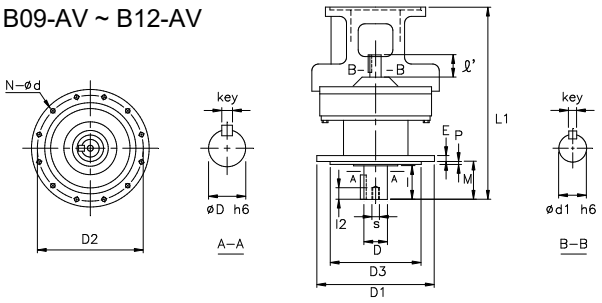
FRAME SIZE	Motor Frame	Dim. in mm C	E	F	G	H	L1	M	N	P	Q	R	V	d	Dim. in inch Output Shaft D	l	Key	s	l2	Dim. in inch Input Shaft D1	l1	Key
B2416-AH	182/184	335	480	630	263	654	1005	580	720	50	45	45	128	39	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77
	213/215	335	480	630	263	654	1029	580	720	50	45	45	128	39	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77
	254/256	335	480	630	263	654	1040	580	720	50	45	45	128	39	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77
B2418-AH	254/256	335	480	630	263	654	1088	580	720	50	45	45	128	39	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.500	2.56	3/8 x 3/8 x 2.56
	284/286	335	480	630	263	654	1104	580	720	50	45	45	128	39	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.500	2.56	3/8 x 3/8 x 2.56
B2517-AH	182/184	375	520	670	320	726	1162	630	780	55	55	50	140	39	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	1.375	2.17	5/16 x 5/16 x 2.17
	213/215	375	520	670	320	726	1178	630	780	55	55	50	140	39	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	1.375	2.17	5/16 x 5/16 x 2.17
	254/256	375	520	670	320	726	1197	630	780	55	55	50	140	39	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	1.375	2.17	5/16 x 5/16 x 2.17
B2519-AH	284/286	375	520	670	320	726	1270	630	780	55	55	50	140	39	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	1.750	2.76	3/8 x 3/8 x 2.56
B2619-AH	284/286	400	590	770	390	786	1380	700	880	55	55	55	160	45	6.625	11.81	1 3/4 x 1 1/4 x 11.8	M30	49	1.750	2.76	3/8 x 3/8 x 2.56
B2719-AH	284/286	540	420	1050	485	1033	1641	1040	1160	100	55	60	200	45	7.000	13.0	1 3/4 x 1 1/4 x 13	M30	52	1.750	2.76	3/8 x 3/8 x 2.56
A904-AH	56C	290	240	560	215	556	830	560	620	40	30	40	100	26	4.250	6.69	1 x 1 x 6.31	M20	34	.875	1.57	3/16 x 3/16 x 1.38
	143/145	290	240	560	215	556	830	560	620	40	30	40	100	26	4.250	6.69	1 x 1 x 6.31	M20	34	.875	1.57	3/16 x 3/16 x 1.38
	182/184	290	240	560	215	556	849	560	620	40	30	40	100	26	4.250	6.69	1 x 1 x 6.31	M20	34	.875	1.57	3/16 x 3/16 x 1.38
	213/215	290	240	560	215	556	865	560	620	40	30	40	100	26	4.250	6.69	1 x 1 x 6.31	M20	34	.875	1.57	3/16 x 3/16 x 1.38
A906-AH	182/184	290	240	560	215	556	894	560	620	40	30	40	100	26	4.250	6.69	1 x 1 x 6.31	M20	34	1.125	1.77	1/4 x 1/4 x 1.77
	213/215	290	240	560	215	556	918	560	620	40	30	40	100	26	4.250	6.69	1 x 1 x 6.31	M20	34	1.125	1.77	1/4 x 1/4 x 1.77
	254/256	290	240	560	215	556	929	560	620	40	30	40	100	26	4.250	6.69	1 x 1 x 6.31	M20	34	1.125	1.77	1/4 x 1/4 x 1.77
A916-AH	182/184	325	250	630	290	625	994	600	690	50	30	40	105	26	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.125	1.77	1/4 x 1/4 x 1.77
	213/215	325	250	630	290	625	1018	600	690	50	30	40	105	26	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.125	1.77	1/4 x 1/4 x 1.77
	254/256	325	250	630	290	625	1029	600	690	50	30	40	105	26	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.125	1.77	1/4 x 1/4 x 1.77
A917-AH	182/184	325	250	630	290	625	1018	600	690	50	30	40	105	26	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.375	2.17	5/16 x 5/16 x 2.17
	213/215	325	250	630	290	625	1034	600	690	50	30	40	105	26	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.375	2.17	5/16 x 5/16 x 2.17
	254/256	325	250	630	290	625	1053	600	690	50	30	40	105	26	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.375	2.17	5/16 x 5/16 x 2.17
A928-AH	254/256	420	330	800	372	800	1271	810	880	75	40	50	143	39	5.500	9.84	1 1/4 x 7/8 x 9.66	M30	52	1.500	2.56	3/8 x 3/8 x 2.56
	284/286	420	330	800	372	800	1287	810	880	75	40	50	143	39	5.500	9.84	1 1/4 x 7/8 x 9.66	M30	52	1.500	2.56	3/8 x 3/8 x 2.56
A939-AH	284/286	540	420	1050	485	1045	1641	1040	1160	100	55	60	200	45	7.000	13	1 3/4 x 1 1/4 x 13	M30	52	1.750	2.76	3/8 x 3/8 x 2.56

REDUCER w/ NEMA C-Face Adapter - AV__

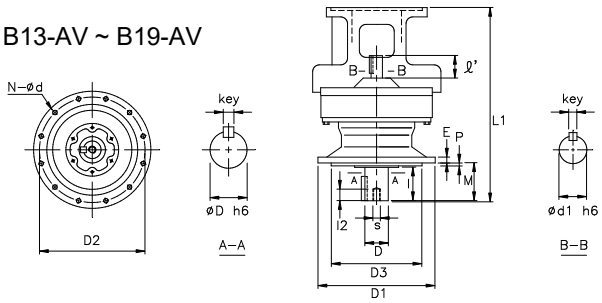
1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

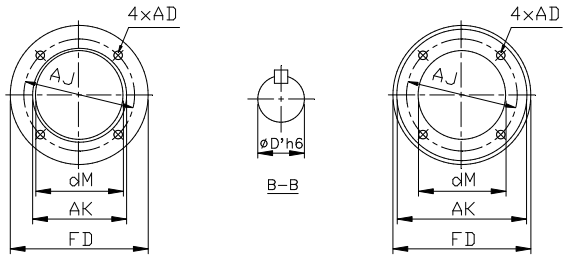
INCH SHAFT - SINGLE STAGE (Users Provide Own Couplings)

B09-AV ~ B12-AV



B13-AV ~ B19-AV





NEMA
56C, 143/145

NEMA
182/184 & above

DARALI Frame	Motor Frame	Dim. in inch C-Face Adapter dM	AK	FD	AJ	AD
B09-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
B10-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
B11-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	4.724	8.500	8.878	7.250	0.551
B12-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	4.724	8.500	8.878	7.250	0.551
B13-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	5.276	8.500	8.878	7.250	0.551
	213/215	5.276	8.500	8.878	7.250	0.551
B14-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	5.276	8.500	8.878	7.250	0.551
	213/215	5.276	8.500	8.878	7.250	0.551
B15-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	5.276	8.500	8.878	7.250	0.551
	213/215	5.276	8.500	8.878	7.250	0.551
B16-AV	182/184	5.315	8.500	8.878	7.250	0.551
	213/215	5.315	8.500	9.000	7.250	0.551
	254/256	5.315	8.500	9.626	7.250	0.551
B17-AV	182/184	5.315	8.500	8.878	7.250	0.551
	213/215	5.315	8.500	9.000	7.250	0.551
	254/256	5.315	8.500	9.626	7.250	0.551
B18-AV	254/256	5.354	8.500	9.626	7.250	0.551
	254/286	5.354	10.500	11.000	9.000	0.551
B19-AV	284/286	6.614	10.500	11.000	9.000	0.551

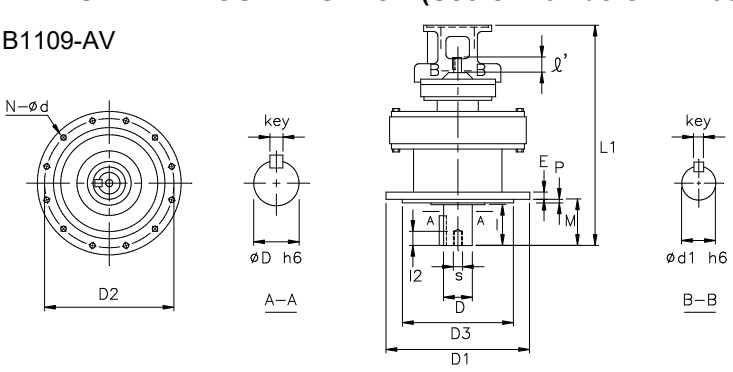
DARALI Frame	Motor Frame	Dim. in mm L1	D1	D2	D3	E	M	N	d	P	Dim. in inch Output Shaft D	l	Key	s	l2	Dim. in inch Input Shaft D'	l'	Key	Wt (lb)
B09-AV	56C	284	160	134	110	9	63	4	11	3	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75	27
	143/145	284	160	134	110	9	63	4	11	3	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75	27
B10-AV	56C	291	160	134	110	9	63	4	11	3	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75	32
	143/145	291	160	134	110	9	63	4	11	3	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75	32
B11-AV	56	326	210	180	140	13	69	6	11	4	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	60
	143/145	326	210	180	140	13	69	6	11	4	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	60
	182/184	345	210	180	140	13	69	6	11	4	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	66
B12-AV	56	326	210	180	140	13	69	6	11	4	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	60
	143/145	326	210	180	140	13	69	6	11	4	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	60
	182/184	345	210	180	140	13	69	6	11	4	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	66
B13-AV	56	388	260	230	200	15	76	6	11	4	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	105
	143/145	388	260	230	200	15	76	6	11	4	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	105
	182/184	407	260	230	200	15	76	6	11	4	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	108
	213/215	423	260	230	200	15	76	6	11	4	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	115
B14-AV	56	408	260	230	200	15	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	105
	143/145	408	260	230	200	15	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	105
	182/184	427	260	230	200	15	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	111
	213/215	443	260	230	200	15	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	117
B15-AV	56	408	260	230	200	15	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	105
	143/145	408	260	230	200	15	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	105
	182/184	427	260	230	200	15	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	111
	213/215	443	260	230	200	15	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	117
B16-AV	182/184	499	340	310	270	20	89	6	11	4	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	1.125	1.77	1/4 x 1/4 x 1.77	220
	213/215	523	340	310	270	20	89	6	11	4	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	1.125	1.77	1/4 x 1/4 x 1.77	223
	254/256	534	340	310	270	20	89	6	11	4	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	1.125	1.77	1/4 x 1/4 x 1.77	226
B17-AV	182/184	563	400	360	316	22	94	8	14	5	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	1.375	2.17	5/16 x 5/16 x 2.17	305
	213/215	579	400	360	316	22	94	8	14	5	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	1.375	2.17	5/16 x 5/16 x 2.17	307
	254/256	598	400	360	316	22	94	8	14	5	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	1.375	2.17	5/16 x 5/16 x 2.17	311
B18-AV	254/256	648	430	390	345	22	110	8	18	5	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	1.500	2.56	3/8 x 3/8 x 2.56	387
	254/286	664	430	390	345	22	110	8	18	5	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	1.500	2.56	3/8 x 3/8 x 2.56	392
B19-AV	284/286	757	490	450	400	30	145	12	18	6	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	1.750	2.76	3/8 x 3/8 x 2.56	568

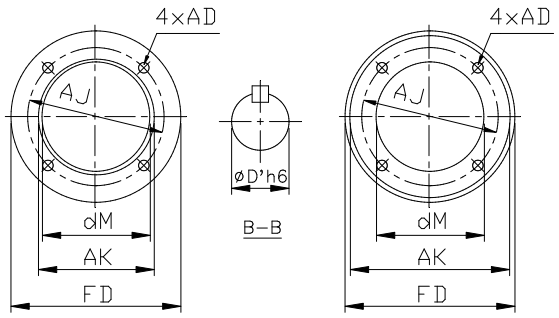
REDUCER w/ NEMA C-Face Adapter - AV

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

INCH SHAFT - DOUBLE STAGE (Users Provide Own Couplings)

B1109-AV

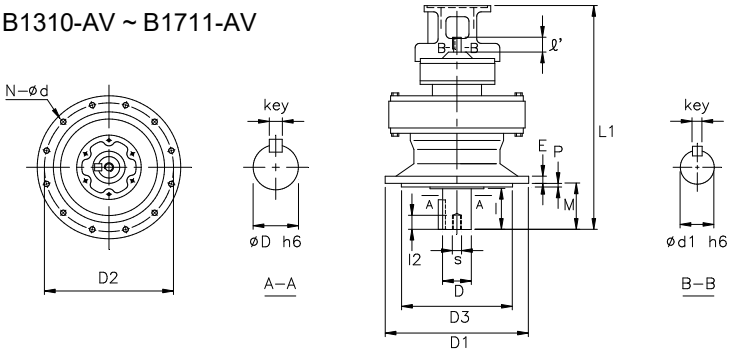




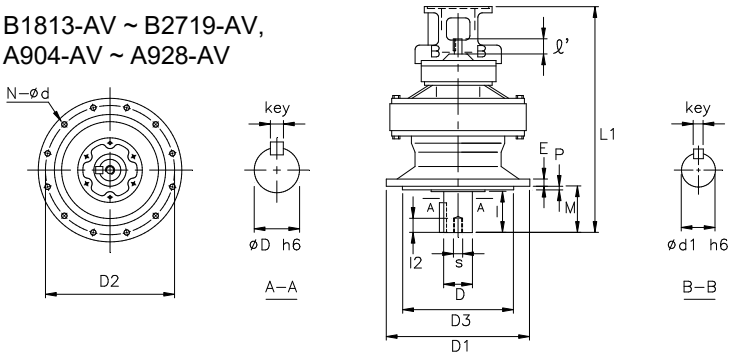
NEMA
56C, 143/145

NEMA
182/184 & above

B1310-AV ~ B1711-AV



B1813-AV ~ B2719-AV,
A904-AV ~ A928-AV



DARALI Frame	Motor Frame	Dim. in inch C-Face Adapter dM	AK	FD	AJ	AD
B1109-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
B1310-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
B1409-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
B1611-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	4.724	8.500	8.878	7.250	0.551
B1711-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	4.724	8.500	8.878	7.250	0.551
B1813-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	5.276	8.500	8.878	7.250	0.551
	213/215	5.276	8.500	8.878	7.250	0.551
B1911-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	4.724	8.500	8.878	7.250	0.551
B1913-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	5.276	8.500	8.878	7.250	0.551
	213/215	5.276	8.500	8.878	7.250	0.551

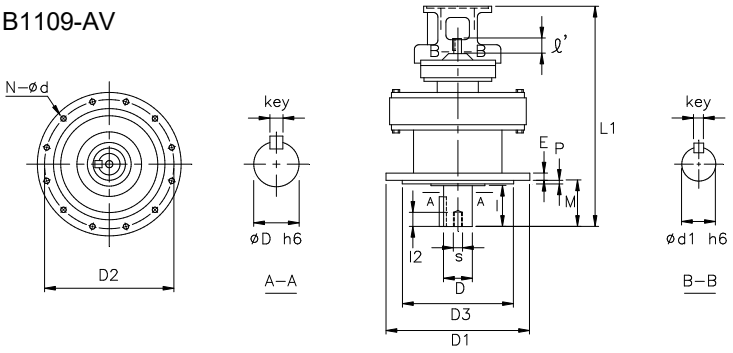
DARALI Frame	Motor Frame	Dim. in mm L1	D1	D2	D3	E	M	N	d	P	Dim. in inch Output Shaft D	l	Key	s	l2	Input Shaft D'	l'	Key	Wt (lb)
B1109-AV	56C	379	210	180	140	13	69	6	11	4	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.625	.98	3/16 x 3/16 x .75	71
	143/145	379	210	180	140	13	69	6	11	4	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.625	.98	3/16 x 3/16 x .75	71
B1310-AV	56C	433	260	230	200	15	76	6	11	4	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75	124
	143/145	433	260	230	200	15	76	6	11	4	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75	124
B1409-AV	56C	450	260	230	200	15	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75	118
	143/145	450	260	230	200	15	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75	118
B1611-AV	56C	528	340	310	270	20	89	6	11	4	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	.750	1.38	3/16 x 3/16 x 1.02	217
	143/145	528	340	310	270	20	89	6	11	4	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	.750	1.38	3/16 x 3/16 x 1.02	217
	182/184	547	340	310	270	20	89	6	11	4	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	.750	1.38	3/16 x 3/16 x 1.02	221
B1711-AV	56C	575	400	360	316	22	94	8	14	5	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	.750	1.38	3/16 x 3/16 x 1.02	280
	143/145	575	400	360	316	22	94	8	14	5	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	.750	1.38	3/16 x 3/16 x 1.02	280
	182/184	594	400	360	316	22	94	8	14	5	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	.750	1.38	3/16 x 3/16 x 1.02	284
B1813-AV	56C	644	430	390	345	22	110	8	18	5	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	.875	1.57	3/16 x 3/16 x 1.38	376
	143/145	644	430	390	345	22	110	8	18	5	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	.875	1.57	3/16 x 3/16 x 1.38	376
	182/184	663	430	390	345	22	110	8	18	5	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	.875	1.57	3/16 x 3/16 x 1.38	380
	213/215	679	430	390	345	22	110	8	18	5	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	.875	1.57	3/16 x 3/16 x 1.38	386
B1911-AV	56C	695	490	450	400	30	145	12	18	6	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.750	1.38	3/16 x 3/16 x 1.02	541
	143/145	695	490	450	400	30	145	12	18	6	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.750	1.38	3/16 x 3/16 x 1.02	541
	182/184	714	490	450	400	30	145	12	18	6	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.750	1.38	3/16 x 3/16 x 1.02	545
B1913-AV	56C	720	490	450	400	30	145	12	18	6	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.875	1.57	3/16 x 3/16 x 1.38	552
	143/145	720	490	450	400	30	145	12	18	6	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.875	1.57	3/16 x 3/16 x 1.38	552
	182/184	739	490	450	400	30	145	12	18	6	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.875	1.57	3/16 x 3/16 x 1.38	567
	213/215	755	490	450	400	30	145	12	18	6	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	.875	1.57	3/16 x 3/16 x 1.38	573

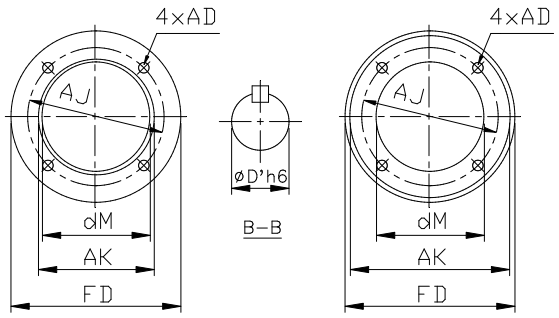
REDUCER w/ NEMA C-Face Adapter - AV

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

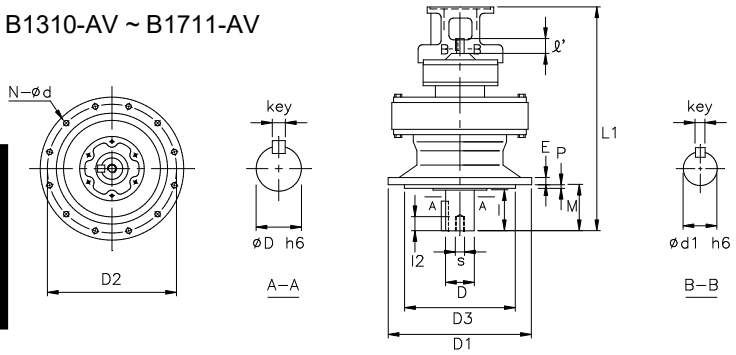
INCH SHAFT - DOUBLE STAGE (Users Provide Own Couplings)

B1109-AV

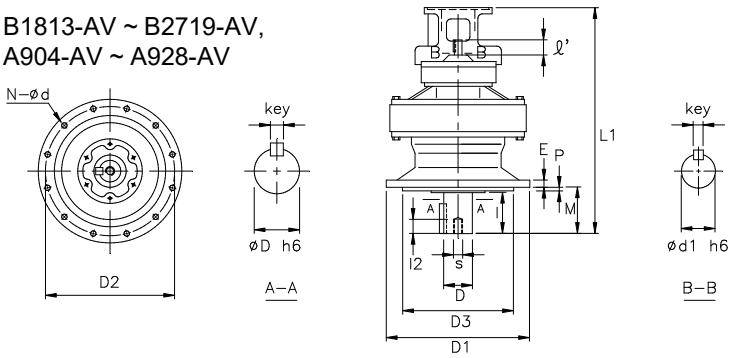




B1310-AV ~ B1711-AV



B1813-AV ~ B2719-AV,
A904-AV ~ A928-AV



Dim. in inch

FRAME SIZE	Motor Frame	C-Face Adapter dM	AK	FD	AJ	AD
B2011-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	4.724	8.500	8.878	7.250	0.551
B2013-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	5.276	8.500	8.878	7.250	0.551
	213/215	5.276	8.500	8.878	7.250	0.551
B2113-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	5.276	8.500	8.878	7.250	0.551
	213/215	5.276	8.500	8.878	7.250	0.551
B2116-AV	182/184	5.315	8.500	8.878	7.250	0.551
	213/215	5.315	8.500	9.000	7.250	0.551
	254/256	5.315	8.500	9.626	7.250	0.551
B2213-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	5.276	8.500	8.878	7.250	0.551
	213/215	5.276	8.500	8.878	7.250	0.551
B2217-AV	182/184	5.315	8.500	8.878	7.250	0.551
	213/215	5.315	8.500	9.000	7.250	0.551
	254/256	5.315	8.500	9.626	7.250	0.551
B2316-AV	182/184	5.315	8.500	8.878	7.250	0.551
	213/215	5.315	8.500	9.000	7.250	0.551
	254/256	5.315	8.500	9.626	7.250	0.551
B2318-AV	254/256	5.354	8.500	9.626	7.250	0.551
	284/286	5.354	10.500	11.000	9.000	0.551

Dim. in mm | Dim. in inch | Dim. in inch

FRAME SIZE	Motor Frame	L1	D1	D2	D3	E	M	N	d	P	Output Shaft D	l	Key	s	l2	Input Shaft D1	l1	Key	Wt (lb)
B2011-AV	56C	736	455	405	355	30	204	8	22	5	3.875	6.50	1 x 1 x 6.50	M20	34	.750	1.38	3/16 x 3/16 x 1.02	583
	143/145	736	455	405	355	30	204	8	22	5	3.875	6.50	1 x 1 x 6.50	M20	34	.750	1.38	3/16 x 3/16 x 1.02	583
	182/184	755	455	405	355	30	204	8	22	5	3.875	6.50	1 x 1 x 6.50	M20	34	.750	1.38	3/16 x 3/16 x 1.02	587
B2013-AV	56C	772	455	405	355	30	204	8	22	5	3.875	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	614
	143/145	772	455	405	355	30	204	8	22	5	3.875	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	614
	182/184	791	455	405	355	30	204	8	22	5	3.875	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	618
	213/215	807	455	405	355	30	204	8	22	5	3.875	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	624
B2113-AV	56C	798	490	440	390	35	203	8	24	7	4.250	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	793
	143/145	798	490	440	390	35	203	8	24	7	4.250	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	793
	182/184	817	490	440	390	35	203	8	24	7	4.250	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	796
	213/215	833	490	440	390	35	203	8	24	7	4.250	6.50	1 x 1 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	803
B2116-AV	182/184	864	490	440	390	35	203	8	24	7	4.250	6.50	1 x 1 x 6.50	M20	34	1.125	1.77	1/4 x 1/4 x 1.77	871
	213/215	888	490	440	390	35	203	8	24	7	4.250	6.50	1 x 1 x 6.50	M20	34	1.125	1.77	1/4 x 1/4 x 1.77	875
	254/256	899	490	440	390	35	203	8	24	7	4.250	6.50	1 x 1 x 6.50	M20	34	1.125	1.77	1/4 x 1/4 x 1.77	881
B2213-AV	56C	840	535	475	415	35	210	8	27	10	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	958
	143/145	840	535	475	415	35	210	8	27	10	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	958
	182/184	859	535	475	415	35	210	8	27	10	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	962
	213/215	875	535	475	415	35	210	8	27	10	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	.875	1.57	3/16 x 3/16 x 1.38	968
B2217-AV	182/184	941	535	475	415	35	210	8	27	10	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	1.375	2.17	5/16 x 5/16 x 2.17	1088
	213/215	957	535	475	415	35	210	8	27	10	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	1.375	2.17	5/16 x 5/16 x 2.17	1090
	254/256	976	535	475	415	35	210	8	27	10	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	1.375	2.17	5/16 x 5/16 x 2.17	1094
B2316-AV	182/184	967	570	510	450	40	250	8	27	10	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77	1254
	213/215	991	570	510	450	40	250	8	27	10	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77	1257
	254/256	1002	570	510	450	40	250	8	27	10	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77	1261
B2318-AV	254/256	1051	570	510	450	40	250	8	27	10	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.500	2.56	3/8 x 3/8 x 2.56	1340
	284/286	1067	570	510	450	40	250	8	27	10	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.500	2.56	3/8 x 3/8 x 2.56	1345

REDUCER w/ NEMA C-Face Adapter - AV

1 inch = 25.4 mm
All dimensions listed are for reference only.
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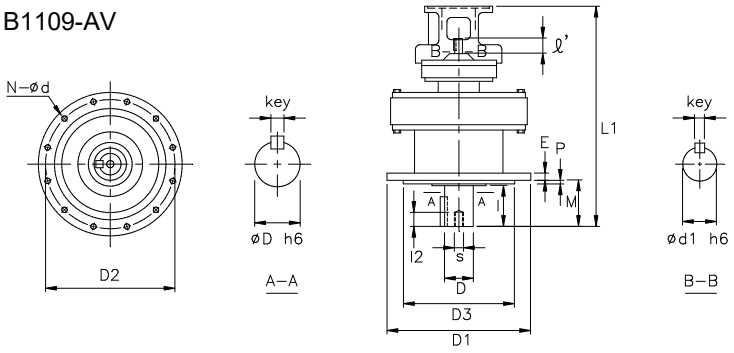
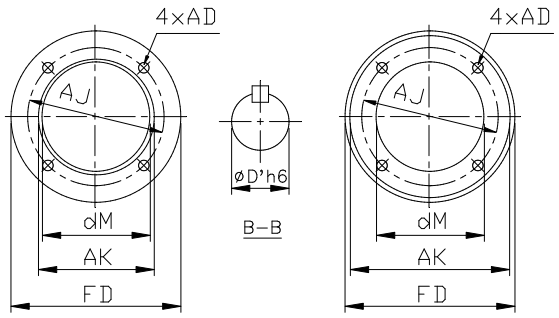
INCH SHAFT - DOUBLE STAGE (Users Provide Own Couplings)

B1109-AV

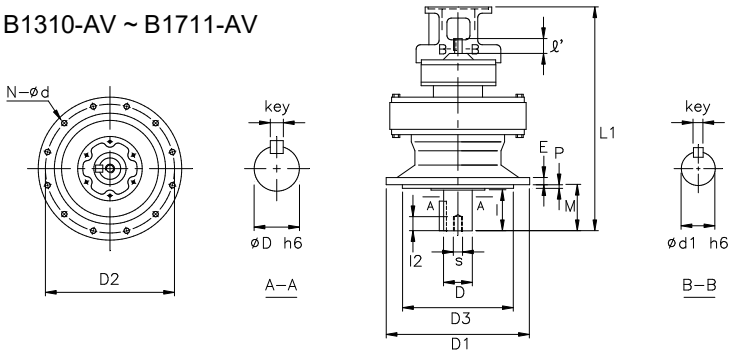




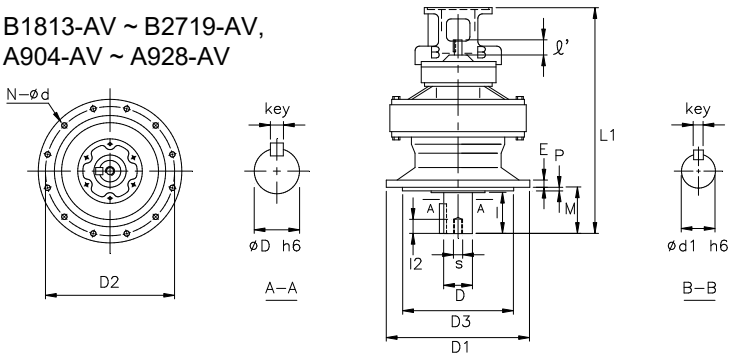
NEMA 56C, 143/145

NEMA 182/184 & above

B1310-AV ~ B1711-AV



B1813-AV ~ B2719-AV,
A904-AV ~ A928-AV



Dim. in inch

FRAME SIZE	Motor Frame	C-Face Adapter dM	AK	FD	AJ	AD
B2416-AV	182/184	5.315	8.500	8.878	7.250	0.551
	213/215	5.315	8.500	9.000	7.250	0.551
	254/256	5.315	8.500	9.626	7.250	0.551
B2418-AV	254/256	5.354	8.500	9.626	7.250	0.551
	284/286	5.354	10.500	11.000	9.000	0.551
B2517-AF	182/184	5.315	8.500	8.878	7.250	0.551
	213/215	5.315	8.500	9.000	7.250	0.551
	254/256	5.315	8.500	9.626	7.250	0.551
B2519-AV	284/286	6.614	10.500	11.000	9.000	0.551
B2619-AV	284/286	6.614	10.500	11.000	9.000	0.551
B2719-AV	284/286	6.614	10.500	11.000	9.000	0.551
A904-AV	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	5.276	8.500	8.878	7.250	0.551
	213/215	5.276	8.500	8.878	7.250	0.551
A906-AV	182/184	5.315	8.500	8.878	7.250	0.551
	213/215	5.315	8.500	9.000	7.250	0.551
	254/256	5.315	8.500	9.626	7.250	0.551
A916-AV	182/184	5.315	8.500	8.878	7.250	0.551
	213/215	5.315	8.500	9.000	7.250	0.551
	254/256	5.315	8.500	9.626	7.250	0.551
A917-AV	182/184	5.315	8.500	8.878	7.250	0.551
	213/215	5.315	8.500	9.000	7.250	0.551
	254/256	5.315	8.500	9.626	7.250	0.551
A928-AV	254/256	5.354	8.500	9.626	7.250	0.551
	284/286	5.354	10.500	11.000	9.000	0.551

Dim. in mm | Dim. in inch | Dim. in inch

FRAME SIZE	Motor Frame	L1	D1	D2	D3	E	M	N	d	P	Output Shaft D	l	Key	s	l2	Input Shaft D1	l1	Key	Wt (lb)
B2416-AV	182/184	1005	635	560	485	40	250	8	33	10	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77	1493
	213/215	1029	635	560	485	40	250	8	33	10	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77	1495
	254/256	1040	635	560	485	40	250	8	33	10	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.125	1.77	1/4 x 1/4 x 1.77	1499
B2418-AV	254/256	1088	635	560	485	40	250	8	33	10	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.500	2.56	3/8 x 3/8 x 2.56	1569
	284/286	1104	635	560	485	40	250	8	33	10	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1.500	2.56	3/8 x 3/8 x 2.56	1574
B2517-AV	182/184	1162	685	610	535	45	295	8	33	10	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	1.375	2.17	5/16 x 5/16 x 2.17	2165
	213/215	1178	685	610	535	45	295	8	33	10	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	1.375	2.17	5/16 x 5/16 x 2.17	2267
	254/256	1197	685	610	535	45	295	8	33	10	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	1.375	2.17	5/16 x 5/16 x 2.17	2271
B2519-AV	284/286	1270	685	610	535	45	295	8	33	10	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	1.750	2.76	3/8 x 3/8 x 2.56	2464
B2619-AV	284/286	1380	750	660	570	50	360	8	39	10	6.625	11.81	1 3/4 x 1 1/4 x 11.8	M30	49	1.750	2.76	3/8 x 3/8 x 2.56	3026
B2719-AV	284/286	1641	1160	1020	900	60	355	8	39	10	7.000	13.0	1 3/4 x 1 1/4 x 13	M30	52	1.750	2.76	3/8 x 3/8 x 2.56	5540
A904-AV	56C	830	580	520	455	35	190	12	22	8	4.250	6.69	1 x 1 x 6.31	M20	34	.875	1.57	3/16 x 3/16 x 1.38	883
	143/145	830	580	520	455	35	190	12	22	8	4.250	6.69	1 x 1 x 6.31	M20	34	.875	1.57	3/16 x 3/16 x 1.38	883
	182/184	849	580	520	455	35	190	12	22	8	4.250	6.69	1 x 1 x 6.31	M20	34	.875	1.57	3/16 x 3/16 x 1.38	887
	213/215	865	580	520	455	35	190	12	22	8	4.250	6.69	1 x 1 x 6.31	M20	34	.875	1.57	3/16 x 3/16 x 1.38	896
A906-AV	182/184	894	580	520	455	35	190	12	22	8	4.250	6.69	1 x 1 x 6.31	M20	34	1.125	1.77	1/4 x 1/4 x 1.77	976
	213/215	918	580	520	455	35	190	12	22	8	4.250	6.69	1 x 1 x 6.31	M20	34	1.125	1.77	1/4 x 1/4 x 1.77	981
	254/256	929	580	520	455	35	190	12	22	8	4.250	6.69	1 x 1 x 6.31	M20	34	1.125	1.77	1/4 x 1/4 x 1.77	986
A916-AV	182/184	994	650	590	520	40	242	12	22	10	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.125	1.77	1/4 x 1/4 x 1.77	1285
	213/215	1018	650	590	520	40	242	12	22	10	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.125	1.77	1/4 x 1/4 x 1.77	1290
	254/256	1029	650	590	520	40	242	12	22	10	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.125	1.77	1/4 x 1/4 x 1.77	1295
A917-AV	182/184	1018	650	590	520	40	242	12	22	10	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.375	2.17	5/16 x 5/16 x 2.17	1350
	213/215	1034	650	590	520	40	242	12	22	10	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.375	2.17	5/16 x 5/16 x 2.17	1355
	254/256	1053	650	590	520	40	242	12	22	10	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1.375	2.17	5/16 x 5/16 x 2.17	1365
A928-AV	254/256	1271	880	800	680	50	252	12	33	10	5.500	9.84	1 1/4 x 7/8 x 9.66	M30	52	1.500	2.56	3/8 x 3/8 x 2.56	2535
	284/286	1287	880	800	680	50	252	12	33	10	5.500	9.84	1 1/4 x 7/8 x 9.66	M30	52	1.500	2.56	3/8 x 3/8 x 2.56	2540

REDUCER w/ NEMA C-Face Adapter - AF

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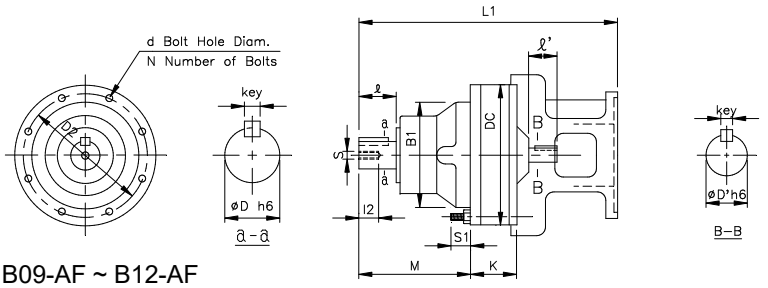
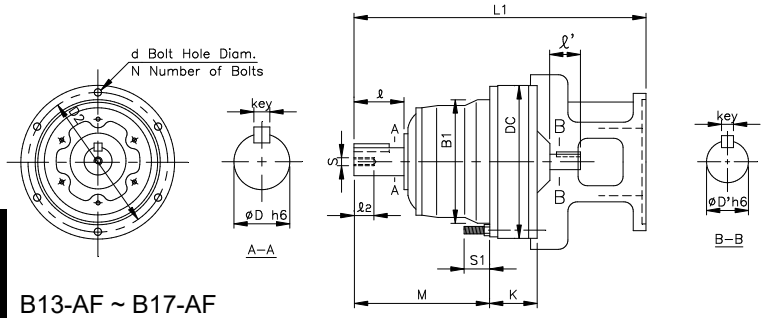
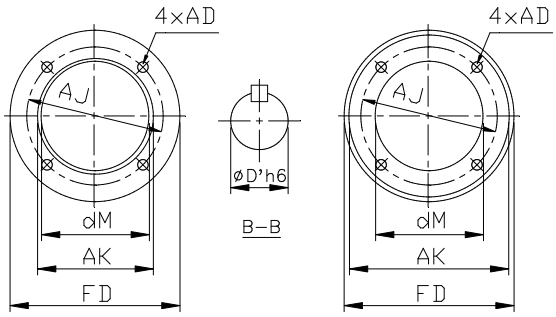
INCH SHAFT - SINGLE STAGE (Users Provide Own Couplings)



B09-AF ~ B12-AF



B13-AF ~ B17-AF



NEMA
56C, 143/145

NEMA
182/184 & above

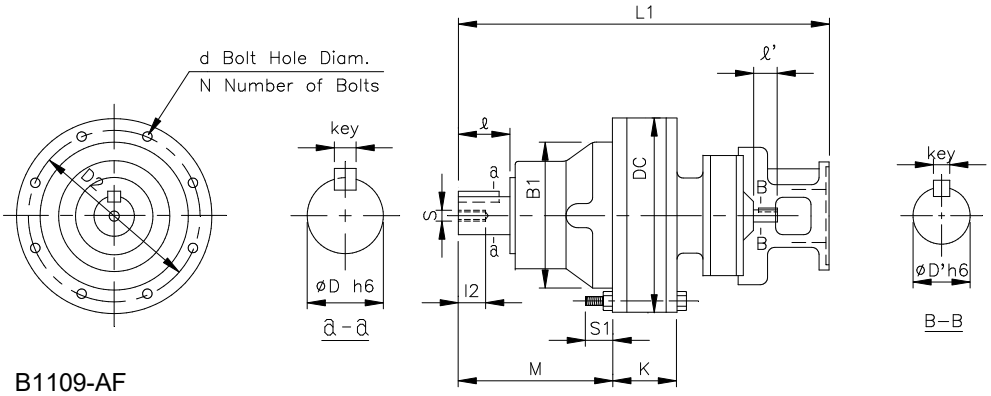
DARALI Frame	Motor Frame	Dim. in inch: C-Face Adapter dM	AK	FD	AJ	AD
B09-AF	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
B10-AF	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
B11-AF	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	4.724	8.500	8.878	7.250	0.551
B12-AF	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	4.724	8.500	8.878	7.250	0.551
B13-AF	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	5.276	8.500	8.878	7.250	0.551
	213/215	5.276	8.500	8.878	7.250	0.551
B14-AF	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	5.276	8.500	8.878	7.250	0.551
	213/215	5.276	8.500	8.878	7.250	0.551
B15-AF	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	5.276	8.500	8.878	7.250	0.551
	213/215	5.276	8.500	8.878	7.250	0.551
B16-AF	182/184	5.315	8.500	8.878	7.250	0.551
	213/215	5.315	8.500	9.000	7.250	0.551
	254/256	5.315	8.500	9.626	7.250	0.551
B17-AF	182/184	5.315	8.500	8.878	7.250	0.551
	213/215	5.315	8.500	9.000	7.250	0.551
	254/256	5.315	8.500	9.626	7.250	0.551

DARALI Frame	Motor Frame	Dim. in mm: B1	DC	M	K	S1	L1	D2	d	N	Output Shaft D	l	Key	s	l2	Input Shaft D'	l'	Key	Wt (lb)
B09-AF	56C	105	150	129	38	26	284	134	9	8	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75	24
	143/145	105	150	129	38	26	284	134	9	8	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75	24
B10-AF	56C	105	150	129	56	27	291	134	9	8	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75	28
	143/145	105	150	129	56	27	291	134	9	8	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	.625	.98	3/16 x 3/16 x .75	28
B11-AF	56C	140	204	139	61	28	326	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	53
	143/145	140	204	139	61	28	326	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	53
	182/184	140	204	139	61	28	345	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	57
B12-AF	56C	140	204	139	61	28	326	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	53
	143/145	140	204	139	61	28	326	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	53
	182/184	140	204	139	61	28	345	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.750	1.38	3/16 x 3/16 x 1.02	57
B13-AF	56C	165	230	177	75	30	388	205	11	6	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	92
	143/145	165	230	177	75	30	388	205	11	6	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	92
	182/184	165	230	177	75	30	407	205	11	6	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	95
	213/215	165	230	177	75	30	423	205	11	6	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	101
B14-AF	56C	165	230	197	75	30	408	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	94
	143/145	165	230	197	75	30	408	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	94
	182/184	165	230	197	75	30	427	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	97
	213/215	165	230	197	75	30	443	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	104
B15-AF	56C	165	230	197	75	30	408	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	94
	143/145	165	230	197	75	30	408	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	94
	182/184	165	230	197	75	30	427	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	97
	213/215	165	230	197	75	30	443	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.875	1.57	3/16 x 3/16 x 1.38	104
B16-AF	182/184	200	318	222	102	40	499	270	14	6	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	1.125	1.77	1/4 x 1/4 x 1.77	192
	213/215	200	318	222	102	40	523	270	14	6	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	1.125	1.77	1/4 x 1/4 x 1.77	194
	254/256	200	318	222	102	40	534	270	14	6	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	1.125	1.77	1/4 x 1/4 x 1.77	198
B17-AF	182/184	250	362	262	110	45	563	300	15	8	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	1.375	2.17	5/16 x 5/16 x 2.17	250
	213/215	250	362	262	110	45	579	300	15	8	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	1.375	2.17	5/16 x 5/16 x 2.17	252
	254/256	250	362	262	110	45	598	300	15	8	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	1.375	2.17	5/16 x 5/16 x 2.17	256

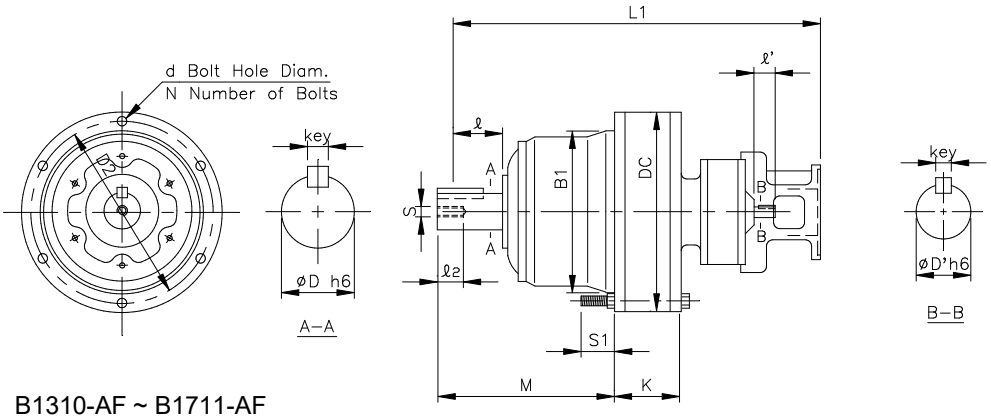
REDUCER w/ NEMA C-Face Adapter - AF

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

INCH SHAFT - DOUBLE STAGE (Users Provide Own Couplings)

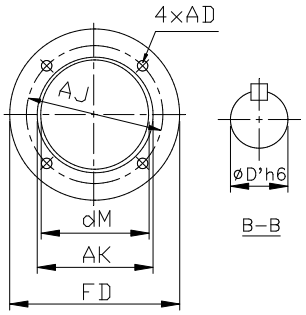


B1109-AF

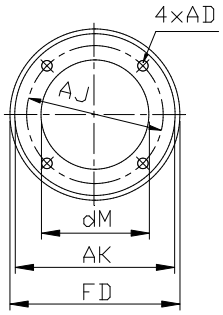


B1310-AF ~ B1711-AF

DARALI Frame	Motor Frame	Dim. in inch C-Face Adapter dM	AK	FD	AJ	AD
B1109-AF	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
B1310-AF	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
B1409-AF	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
B1611-AF	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	4.724	8.500	8.878	7.250	0.551
B1711-AF	56C	3.543	4.500	6.625	5.875	0.433
	143/145	3.543	4.500	6.625	5.875	0.433
	182/184	4.724	8.500	8.878	7.250	0.551



NEMA
56C, 143/145



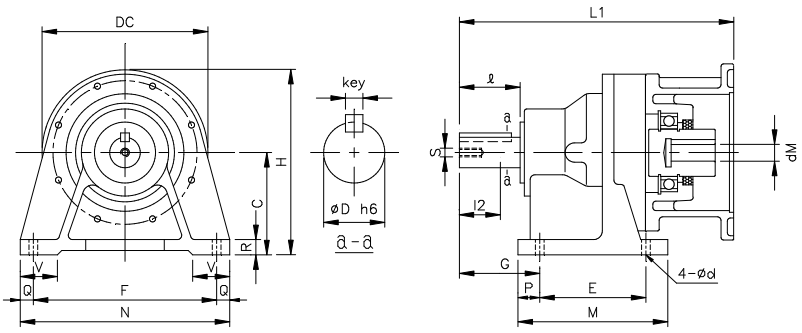
NEMA
182/184 & above

DARALI Frame	Motor Frame	Dim. in mm B1	DC	M	K	S1	L1	D2	d	N	Dim. in inch Output Shaft D	l	Key	s	l2	Dim. in inch Input Shaft D'	l'	Key	Wt (lb)
B1109-AF	56C	140	204	139	61	28	379	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.625	.98	3/16 x 3/16 x .75	62
	143/145	140	204	139	61	28	379	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	.625	.98	3/16 x 3/16 x .75	62
B1310-AF	56C	165	230	177	75	30	433	205	11	6	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75	95
	143/145	165	230	177	75	30	433	205	11	6	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75	95
B1409-AF	56C	165	230	197	75	30	450	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75	93
	143/145	165	230	197	75	30	450	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	.625	.98	3/16 x 3/16 x .75	93
B1611-AF	56C	200	318	222	102	40	528	270	14	6	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	.750	1.38	3/16 x 3/16 x 1.02	190
	143/145	200	318	222	102	40	528	270	14	6	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	.750	1.38	3/16 x 3/16 x 1.02	190
	182/184	200	318	222	102	40	547	270	14	6	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	.750	1.38	3/16 x 3/16 x 1.02	194
B1711-AF	56C	250	362	262	110	45	575	300	15	8	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	.750	1.38	3/16 x 3/16 x 1.02	241
	143/145	250	362	262	110	45	575	300	15	8	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	.750	1.38	3/16 x 3/16 x 1.02	241
	182/184	250	362	262	110	45	594	300	15	8	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	.750	1.38	3/16 x 3/16 x 1.02	245

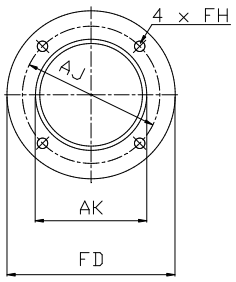
REDUCER w/ NEMA C-Face Adapter - QH__

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

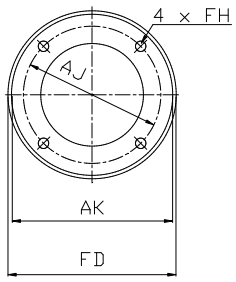
INCH SHAFT - SINGLE STAGE - HOLLOW QUILL INPUT



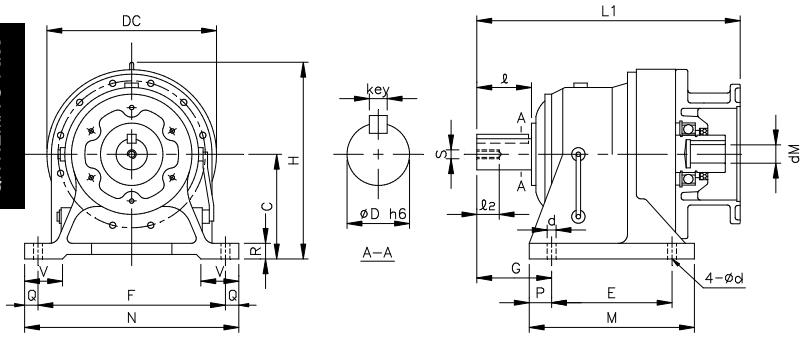
B09-QH ~ B12-QH



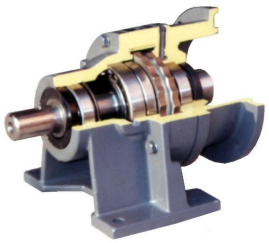
NEMA
56C, 143/145



NEMA
182/184 & above



B13-QH ~ B16-QH



Dim. in inch

DARALI Frame	Motor Frame	NEMA C-Face Adapter dM	AK	FD	AJ	FH
B09-QH	56C	0.625	4.500	6.625	5.875	0.433
	143/145	0.875	4.500	6.625	5.875	0.433
B10-QH	56C	0.625	4.500	6.625	5.875	0.433
	143/145	0.875	4.500	6.625	5.875	0.433
B11-QH	56C	0.625	4.500	6.625	5.875	0.433
	143/145	0.875	4.500	6.625	5.875	0.433
	182/184	1.125	8.500	8.875	7.250	0.433
B12-QH	56C	0.625	4.500	6.625	5.875	0.433
	143/145	0.875	4.500	6.625	5.875	0.433
	182/184	1.125	8.500	8.875	7.250	0.433
B13-QH	182/184	1.125	8.500	8.875	7.250	0.551
	213/215	1.375	8.500	8.875	7.250	0.551
B14-QH	182/184	1.125	8.500	8.875	7.250	0.551
	213/215	1.375	8.500	8.875	7.250	0.551
B15-QH	182/184	1.125	8.500	8.875	7.250	0.551
	213/215	1.375	8.500	8.875	7.250	0.551
B16-QH	182/184	1.125	8.500	8.875	7.250	0.551
	213/215	1.375	8.500	8.875	7.250	0.551

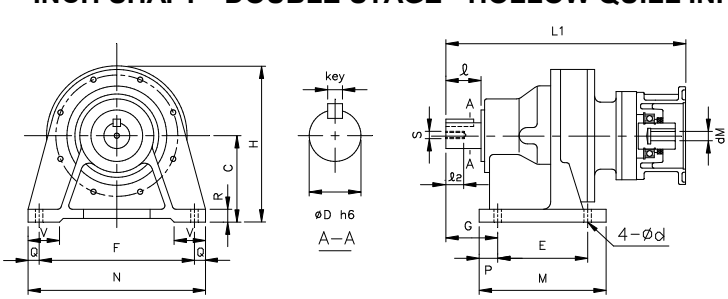
Dim in mm / Dim. in inch

DARALI Frame	Motor Frame	C	DC	E	F	G	H	L1	M	N	P	Q	R	V	d	Output Shaft D	l	Key	s	l2	Wt (lb)
B09-QH	56C	100	150	90	150	75	184	241	130	180	15	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	32
	143/145	100	150	90	150	75	184	241	130	180	15	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	32
B10-QH	56C	100	150	90	150	75	184	247	135	180	15	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	36
	143/145	100	150	90	150	75	184	247	135	180	15	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	36
B11-QH	56C	120	204	115	190	82	222	264	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	62
	143/145	120	204	115	190	82	222	264	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	62
	182/184	120	204	115	190	82	232	278	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	66
B12-QH	56C	140	204	115	190	82	242	264	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	66
	143/145	140	204	115	190	82	242	264	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	66
	182/184	140	204	115	190	82	252	278	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	70
B13-QH	182/184	150	230	145	290	100	265	334	195	330	25	20	27	65	18	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	111
	213/215	150	230	145	290	100	265	351	195	330	25	20	27	65	18	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	117
B14-QH	182/184	150	230	145	290	120	265	354	195	330	25	20	27	65	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	113
	213/215	150	230	145	290	120	265	371	195	330	25	20	27	65	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	119
B15-QH	182/184	160	230	145	290	120	275	354	195	330	25	20	27	70	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	118
	213/215	160	230	145	290	120	275	371	195	330	25	20	27	70	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	124
B16-QH	182/184	160	318	150	370	139	319	405	238	410	44	20	30	75	18	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	231
	213/215	160	318	150	370	139	319	421	238	410	44	20	30	75	18	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	237

REDUCER w/ NEMA C-Face Adapter - QH__

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

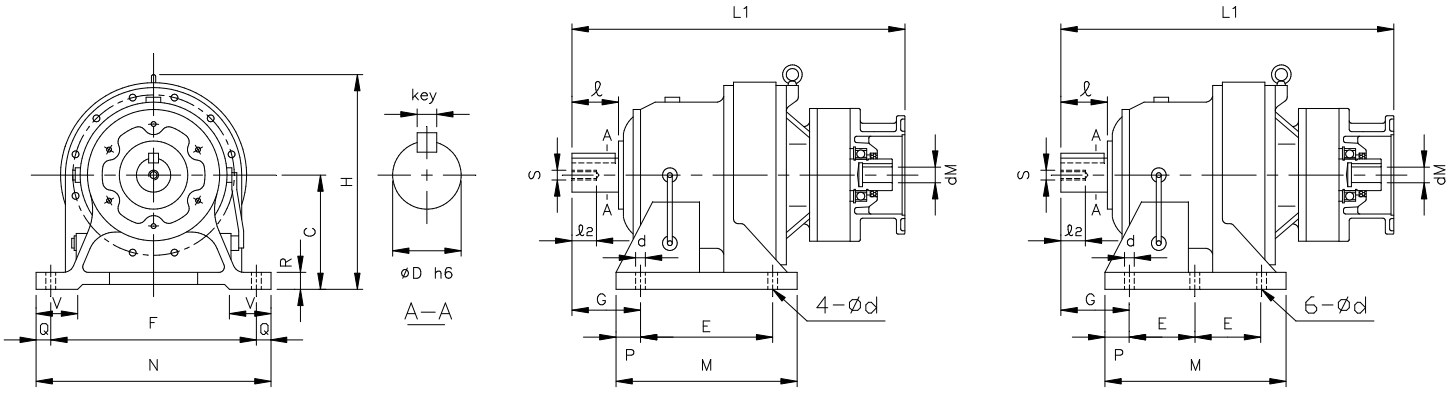
INCH SHAFT - DOUBLE STAGE - HOLLOW QUILL INPUT



B1109-QH

B1310-QH ~ B1813-QH

		Dim. in mm													Dim. in inch					Dim. in inch					
DARALI	Motor														NEMA C-Face Adapter					Output Shaft					Wt
Frame	Frame	C	E	F	G	H	L1	M	N	P	Q	R	V	d	dM	AK	FD	AJ	FH	D	l	Key	s	l2	(lb)
B1109-QH	56C	120	115	190	82	222	336	155	230	20	20	21	55	14	0.625	4.500	6.625	5.875	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	71
	143/145	120	115	190	82	222	336	155	230	20	20	21	55	14	0.875	4.500	6.625	5.875	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	71
B1310-QH	56C	150	145	290	100	265	393	195	330	25	20	27	65	18	0.625	4.500	6.625	5.875	0.433	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	124
	143/145	150	145	290	100	265	393	195	330	25	20	27	65	18	0.875	4.500	6.625	5.875	0.433	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	124
B1409-QH	56C	150	145	290	120	265	407	195	330	25	20	27	65	18	0.625	4.500	6.625	5.875	0.433	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	118
	143/145	150	145	290	120	265	407	195	330	25	20	27	65	18	0.875	4.500	6.625	5.875	0.433	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	118
B1611-QH	56C	160	150	370	139	319	467	238	410	44	20	30	75	18	0.625	4.500	6.625	5.875	0.433	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	217
	143/145	160	150	370	139	319	467	238	410	44	20	30	75	18	0.875	4.500	6.625	5.875	0.433	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	217
	182/184	160	150	370	139	319	481	238	410	44	20	30	75	18	1.125	8.500	8.875	7.250	0.433	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	221
B1711-QH	56C	200	275	380	125	381	514	335	430	30	25	32	80	22	0.625	4.500	6.625	5.875	0.433	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	280
	143/145	200	275	380	125	381	514	335	430	30	25	32	80	22	0.875	4.500	6.625	5.875	0.433	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	280
	182/184	200	275	380	125	381	528	335	430	30	25	32	80	22	1.125	8.500	8.875	7.250	0.433	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	284
B1813-QH	182/184	220	320	420	145	415	590	380	470	30	25	33	85	22	1.125	8.500	8.875	7.250	0.551	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	380
	213/215	220	320	420	145	415	701	380	470	30	25	33	85	22	1.375	8.500	8.875	7.250	0.551	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	386
B1911-QH	56C	250	380	480	170	476	634	440	530	30	25	40	90	26	0.625	4.500	6.625	5.875	0.433	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	541
	143/145	250	380	480	170	476	634	440	530	30	25	40	90	26	0.875	4.500	6.625	5.875	0.433	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	541
	182/184	250	380	480	170	476	648	440	530	30	25	40	90	26	1.125	8.500	8.875	7.250	0.433	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	545
B1913-QH	182/184	250	380	480	170	476	666	440	530	30	25	40	90	26	1.125	8.500	8.875	7.250	0.551	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	567
	213/215	250	380	480	170	476	683	440	530	30	25	40	90	26	1.375	8.500	8.875	7.250	0.551	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	573
B2011-QH	56C	250	360	440	215	485	675	440	530	40	45	40	100	26	0.625	4.500	6.625	5.875	0.433	3.875	6.50	1 x 1 x 6.50	M20	34	583
	143/145	250	360	440	215	485	675	440	530	40	45	40	100	26	0.875	4.500	6.625	5.875	0.433	3.875	6.50	1 x 1 x 6.50	M20	34	583
	182/184	250	360	440	215	485	689	440	530	40	45	40	100	26	1.125	8.500	8.875	7.250	0.433	3.875	6.50	1 x 1 x 6.50	M20	34	587
B2013-QH	182/184	250	360	440	215	485	718	440	530	40	45	40	100	26	1.125	8.500	8.875	7.250	0.551	3.875	6.50	1 x 1 x 6.50	M20	34	618
	213/215	250	360	440	215	485	735	440	530	40	45	40	100	26	1.375	8.500	8.875	7.250	0.551	3.875	6.50	1 x 1 x 6.50	M20	34	624
B2113-QH	182/184	265	395	480	210	518	744	475	580	40	50	42	110	26	1.125	8.500	8.875	7.250	0.551	4.250	6.50	1 x 1 x 6.50	M20	34	796
	213/215	265	395	480	210	518	761	475	580	40	50	42	110	26	1.375	8.500	8.875	7.250	0.551	4.250	6.50	1 x 1 x 6.50	M20	34	803
B2116-QH	182/184	265	395	480	210	518	772	475	580	40	50	42	110	26	1.125	8.500	8.875	7.250	0.551	4.250	6.50	1 x 1 x 6.50	M20	34	871
	213/215	265	395	480	210	518	788	475	580	40	50	42	110	26	1.375	8.500	8.875	7.250	0.551	4.250	6.50	1 x 1 x 6.50	M20	34	875
B2213-QH	182/184	280	420	540	230	554	786	520	620	50	40	42	115	33	1.125	8.500	8.875	7.250	0.551	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	962
	213/215	280	420	540	230	554	803	520	620	50	40	42	115	33	1.375	8.500	8.875	7.250	0.551	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	968
B2316-QH	182/184	300	460	580	260	595	875	560	670	50	45	45	120	33	1.125	8.500	8.875	7.250	0.551	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1254
	213/215	300	460	580	260	595	891	560	670	50	45	45	120	33	1.375	8.500	8.875	7.250	0.551	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1257
B2416-QH	182/184	335	480	630	263	654	913	580	720	50	45	45	128	39	1.125	8.500	8.875	7.250	0.551	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1493
	213/215	335	480	630	263	654	929	580	720	50	45	45	128	39	1.375	8.500	8.875	7.250	0.551	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1495
A904-QH	182/184	290	240	560	215	556	776	560	620	40	30	40	100	26	1.125	8.500	8.875	7.250	0.551	4.250	6.69	1 x 1 x 6.31	M20	34	887
	213/215	290	240	560	215	556	793	560	620	40	30	40	100	26	1.375	8.500	8.875	7.250	0.551	4.250	6.69	1 x 1 x 6.31	M20	34	896
A906-QH	182/184	290	240	560	215	556	802	560	620	40	30	40	100	26	1.125	8.500	8.875	7.250	0.551	4.250	6.69	1 x 1 x 6.31	M20	34	976
	213/215	290	240	560	215	556	818	560	620	40	30	40	100	26	1.375	8.500	8.875	7.250	0.551	4.250	6.69	1 x 1 x 6.31	M20	34	981
A916-QH	182/184	325	250	630	290	625	902	600	690	50	30	40	105	26	1.125	8.500	8.875	7.250	0.551	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1285
	213/215	325	250	630	290	625	918	600	690	50	30	40	105	26	1.375	8.500	8.875	7.250	0.551	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1290



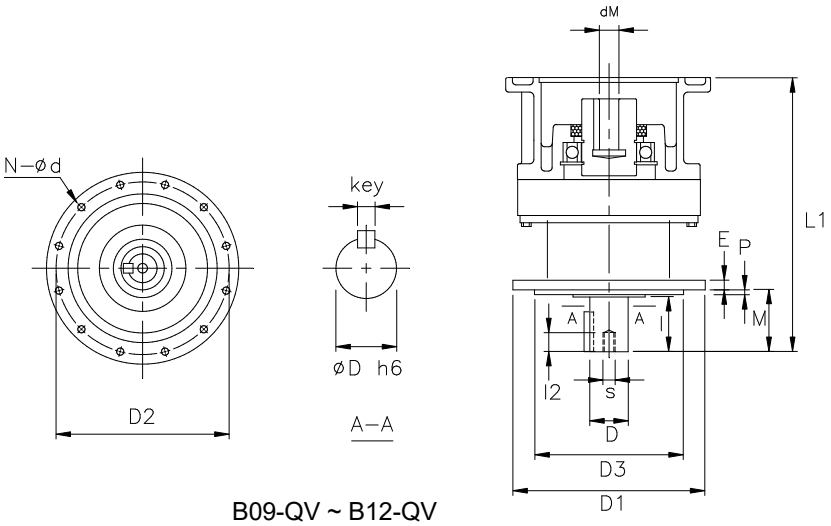
B1911-QH ~ B2416-QH

A904-QH ~ A916-QH
w/ 6 Mounting Holes

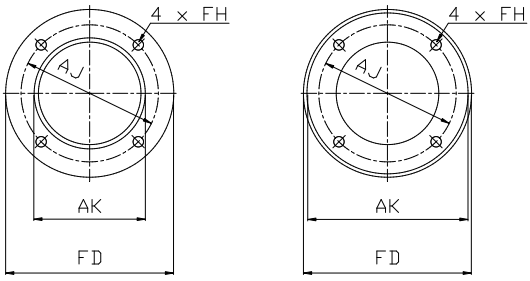
REDUCER w/ NEMA C-Face Adapter - QV___

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

INCH SHAFT - SINGLE STAGE - HOLLOW QUILL INPUT

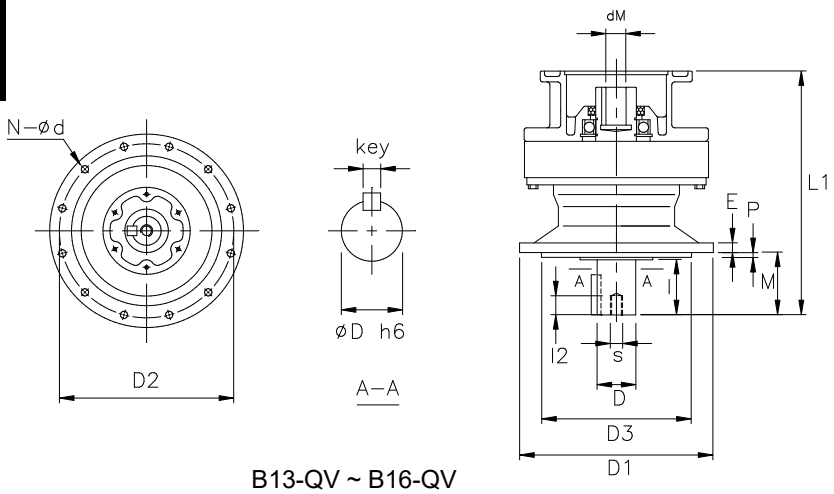


B09-QV ~ B12-QV



NEMA
56C, 143/145

NEMA
182/184 & above



B13-QV ~ B16-QV

Dim. in mm | Dim. in inch | Dim. in inch

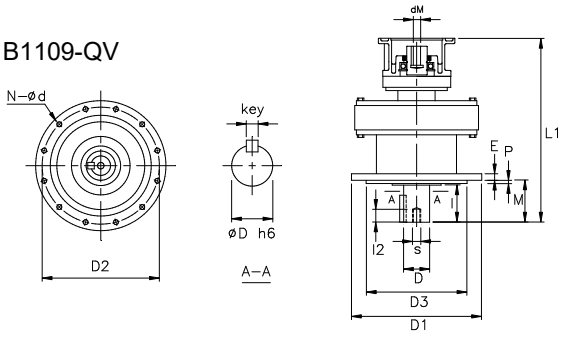
DARALI Frame	Motor Frame	L1	D1	D2	D3	E	M	N	d	P	NEMA C-Face Adapter dM	AK	FD	AJ	FH	Output Shaft D	l	Key	s	l2	Wt (lb)
B09-QV	56C	241	160	134	110	9	63	4	11	3	0.625	4.500	6.625	5.875	0.433	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	29
	143/145	241	160	134	110	9	63	4	11	3	0.875	4.500	6.625	5.875	0.433	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	29
B10-QV	56C	247	160	134	110	9	63	4	11	3	0.625	4.500	6.625	5.875	0.433	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	33
	143/145	247	160	134	110	9	63	4	11	3	0.875	4.500	6.625	5.875	0.433	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	33
B11-QV	56C	264	210	180	140	13	69	6	11	4	0.625	4.500	6.625	5.875	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	59
	143/145	264	210	180	140	13	69	6	11	4	0.875	4.500	6.625	5.875	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	59
	182/184	278	210	180	140	13	69	6	11	4	1.125	8.500	8.875	7.250	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	63
B12-QV	56C	264	210	180	140	13	69	6	11	4	0.625	4.500	6.625	5.875	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	59
	143/145	264	210	180	140	13	69	6	11	4	0.875	4.500	6.625	5.875	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	59
	182/184	278	210	180	140	13	69	6	11	4	1.125	8.500	8.875	7.250	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	63
B13-QV	182/184	334	260	230	200	15	76	6	11	4	1.125	8.500	8.875	7.250	0.551	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	108
	213/215	351	260	230	200	15	76	6	11	4	1.375	8.500	8.875	7.250	0.551	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	113
B14-QV	182/184	354	260	230	200	15	96	6	11	4	1.125	8.500	8.875	7.250	0.551	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	110
	213/215	371	260	230	200	15	96	6	11	4	1.375	8.500	8.875	7.250	0.551	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	116
B15-QV	182/184	354	260	230	200	15	96	6	11	4	1.125	8.500	8.875	7.250	0.551	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	115
	213/215	371	260	230	200	15	96	6	11	4	1.375	8.500	8.875	7.250	0.551	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	121
B16-QV	182/184	405	340	310	270	20	89	6	11	4	1.125	8.500	8.875	7.250	0.551	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	228
	213/215	421	340	310	270	20	89	6	11	4	1.375	8.500	8.875	7.250	0.551	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	234

REDUCER w/ NEMA C-Face Adapter - QV___

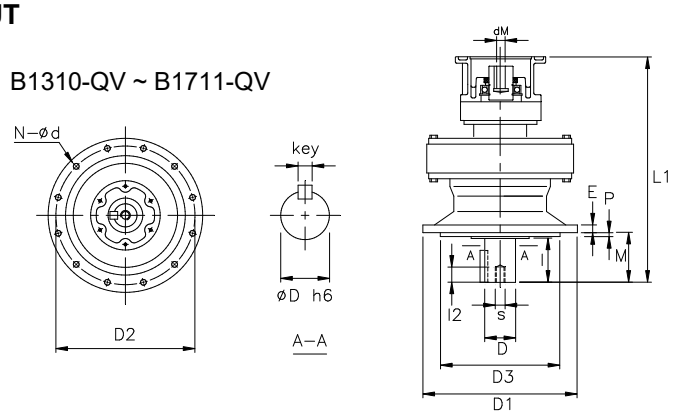
1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

INCH SHAFT - DOUBLE STAGE - HOLLOW QUILL INPUT

B1109-QV

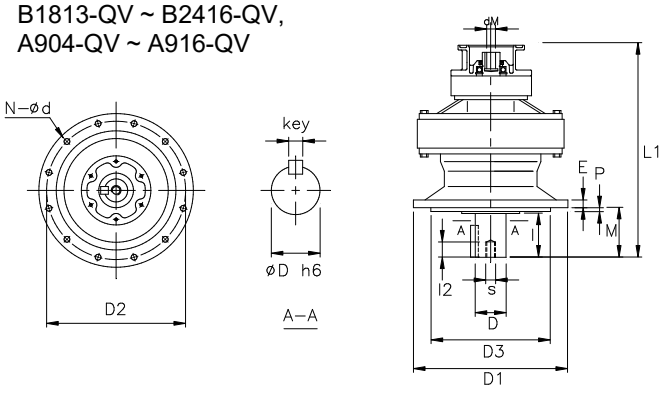


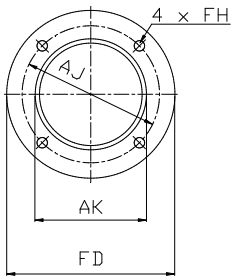
B1310-QV ~ B1711-QV



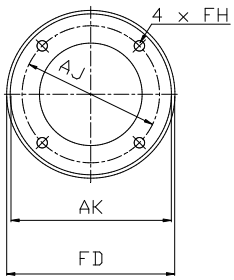
		Dim. in mm									Dim. in inch					Dim. in inch					
DARALI	Motor										NEMA C-Face Adapter					Output Shaft					Wt
Frame	Frame	L1	D1	D2	D3	E	M	N	d	P	dM	AK	FD	AJ	FH	D	l	Key	s	l2	(lb)
B1109-QV	56C	336	210	180	140	13	69	6	11	4	0.625	4.500	6.625	5.875	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	71
	143/145	336	210	180	140	13	69	6	11	4	0.875	4.500	6.625	5.875	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	71
B1310-QV	56C	393	260	230	200	15	76	6	11	4	0.625	4.500	6.625	5.875	0.433	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	124
	143/145	393	260	230	200	15	76	6	11	4	0.875	4.500	6.625	5.875	0.433	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	124
B1409-QV	56C	407	260	230	200	15	96	6	11	4	0.625	4.500	6.625	5.875	0.433	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	118
	143/145	407	260	230	200	15	96	6	11	4	0.875	4.500	6.625	5.875	0.433	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	118
B1611-QV	56C	467	340	310	270	20	89	6	11	4	0.625	4.500	6.625	5.875	0.433	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	217
	143/145	467	340	310	270	20	89	6	11	4	0.875	4.500	6.625	5.875	0.433	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	217
	182/184	481	340	310	270	20	89	6	11	4	1.125	8.500	8.875	7.250	0.433	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	221
B1711-QV	56C	514	400	360	316	22	94	8	14	5	0.625	4.500	6.625	5.875	0.433	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	280
	143/145	514	400	360	316	22	94	8	14	5	0.875	4.500	6.625	5.875	0.433	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	280
	182/184	528	400	360	316	22	94	8	14	5	1.125	8.500	8.875	7.250	0.433	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	284
B1813-QV	182/184	590	430	390	345	22	110	8	18	5	1.125	8.500	8.875	7.250	0.551	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	380
	213/215	701	430	390	345	22	110	8	18	5	1.375	8.500	8.875	7.250	0.551	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	386
B1911-QV	56C	634	490	450	400	30	145	12	18	6	0.625	4.500	6.625	5.875	0.433	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	541
	143/145	634	490	450	400	30	145	12	18	6	0.875	4.500	6.625	5.875	0.433	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	541
	182/184	648	490	450	400	30	145	12	18	6	1.125	8.500	8.875	7.250	0.433	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	545
B1913-QV	182/184	666	490	450	400	30	145	12	18	6	1.125	8.500	8.875	7.250	0.551	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	567
	213/215	683	490	450	400	30	145	12	18	6	1.375	8.500	8.875	7.250	0.551	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	573
B2011-QV	56C	675	455	405	355	30	204	8	22	5	0.625	4.500	6.625	5.875	0.433	3.875	6.50	1 x 1 x 6.50	M20	34	583
	143/145	675	455	405	355	30	204	8	22	5	0.875	4.500	6.625	5.875	0.433	3.875	6.50	1 x 1 x 6.50	M20	34	583
	182/184	689	455	405	355	30	204	8	22	5	1.125	8.500	8.875	7.250	0.433	3.875	6.50	1 x 1 x 6.50	M20	34	587
B2013-QV	182/184	718	455	405	355	30	204	8	22	5	1.125	8.500	8.875	7.250	0.551	3.875	6.50	1 x 1 x 6.50	M20	34	618
	213/215	735	455	405	355	30	204	8	22	5	1.375	8.500	8.875	7.250	0.551	3.875	6.50	1 x 1 x 6.50	M20	34	624
B2113-QV	182/184	744	490	440	390	35	203	8	24	7	1.125	8.500	8.875	7.250	0.551	4.250	6.50	1 x 1 x 6.50	M20	34	796
	213/215	761	490	440	390	35	203	8	24	7	1.375	8.500	8.875	7.250	0.551	4.250	6.50	1 x 1 x 6.50	M20	34	803
B2116-QV	182/184	772	490	440	390	35	203	8	24	7	1.125	8.500	8.875	7.250	0.551	4.250	6.50	1 x 1 x 6.50	M20	34	871
	213/215	788	490	440	390	35	203	8	24	7	1.375	8.500	8.875	7.250	0.551	4.250	6.50	1 x 1 x 6.50	M20	34	875
B2213-QV	182/184	786	535	475	415	35	210	8	27	10	1.125	8.500	8.875	7.250	0.551	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	962
	213/215	803	535	475	415	35	210	8	27	10	1.375	8.500	8.875	7.250	0.551	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	968
B2316-QV	182/184	875	570	510	450	40	250	8	27	10	1.125	8.500	8.875	7.250	0.551	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1254
	213/215	891	570	510	450	40	250	8	27	10	1.375	8.500	8.875	7.250	0.551	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1257
B2416-QV	182/184	913	635	560	485	40	250	8	33	10	1.125	8.500	8.875	7.250	0.551	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1493
	213/215	929	635	560	485	40	250	8	33	10	1.375	8.500	8.875	7.250	0.551	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1495
A904-QV	182/184	776	580	520	455	35	190	12	22	8	1.125	8.500	8.875	7.250	0.551	4.250	6.69	1 x 1 x 6.31	M20	34	887
	213/215	793	580	520	455	35	190	12	22	8	1.375	8.500	8.875	7.250	0.551	4.250	6.69	1 x 1 x 6.31	M20	34	896
A906-QV	182/184	802	580	520	455	35	190	12	22	8	1.125	8.500	8.875	7.250	0.551	4.250	6.69	1 x 1 x 6.31	M20	34	976
	213/215	818	580	520	455	35	190	12	22	8	1.375	8.500	8.875	7.250	0.551	4.250	6.69	1 x 1 x 6.31	M20	34	981
A916-QV	182/184	902	650	590	520	40	242	12	22	10	1.125	8.500	8.875	7.250	0.551	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1285
	213/215	918	650	590	520	40	242	12	22	10	1.375	8.500	8.875	7.250	0.551	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1290

B1813-QV ~ B2416-QV,
A904-QV ~ A916-QV





NEMA
56C, 143/145

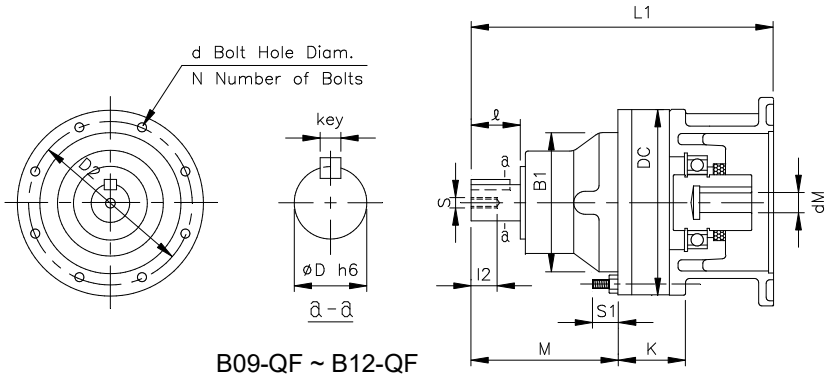


NEMA
182/184 & above

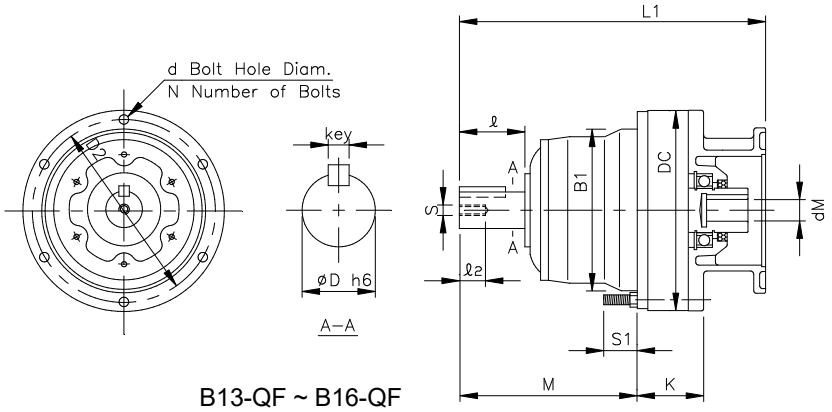
REDUCER w/ NEMA C-Face Adapter - QF___

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

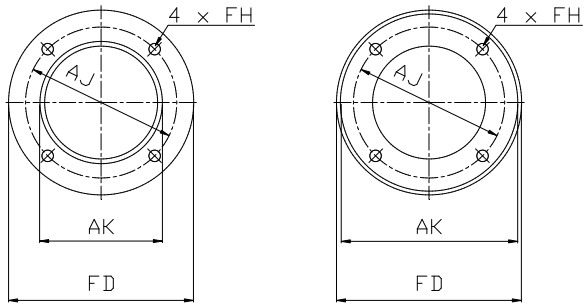
INCH SHAFT - SINGLE STAGE - HOLLOW QUILL INPUT



B09-QF ~ B12-QF



B13-QF ~ B16-QF



NEMA
56C, 143/145

NEMA
182/184 & above

		Dim. in mm									Dim. in inch					Dim. in inch					
											NEMA C-Face Adapter					Output Shaft					Wt
DARALI Frame	Motor Frame	B1	DC	M	K	S1	L1	D2	d	N	dM	AK	FD	AJ	FH	D	l	Key	s	l2	(lb)
B09-QF	56C	105	150	129	38	26	241	134	9	8	0.625	4.500	6.625	5.875	0.433	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	29
	143/145	105	150	129	38	26	241	134	9	8	0.875	4.500	6.625	5.875	0.433	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	29
B10-QF	56C	105	150	129	56	27	247	134	9	8	0.625	4.500	6.625	5.875	0.433	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	33
	143/145	105	150	129	56	27	247	134	9	8	0.875	4.500	6.625	5.875	0.433	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	33
B11-QF	56C	140	204	139	61	28	264	180	11	6	0.625	4.500	6.625	5.875	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	59
	143/145	140	204	139	61	28	264	180	11	6	0.875	4.500	6.625	5.875	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	59
	182/184	140	204	139	61	28	278	180	11	6	1.125	8.500	8.875	7.250	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	63
B12-QF	56C	140	204	139	61	28	264	180	11	6	0.625	4.500	6.625	5.875	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	59
	143/145	140	204	139	61	28	264	180	11	6	0.875	4.500	6.625	5.875	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	59
	182/184	140	204	139	61	28	278	180	11	6	1.125	8.500	8.875	7.250	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	63
B13-QF	182/184	165	230	177	75	30	334	205	11	6	1.125	8.500	8.875	7.250	0.551	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	108
	213/215	165	230	177	75	30	351	205	11	6	1.375	8.500	8.875	7.250	0.551	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	113
B14-QF	182/184	165	230	197	75	30	354	205	11	6	1.125	8.500	8.875	7.250	0.551	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	110
	213/215	165	230	197	75	30	371	205	11	6	1.375	8.500	8.875	7.250	0.551	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	116
B15-QF	182/184	165	230	197	75	30	354	205	11	6	1.125	8.500	8.875	7.250	0.551	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	115
	213/215	165	230	197	75	30	371	205	11	6	1.375	8.500	8.875	7.250	0.551	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	121
B16-QF	182/184	200	318	222	102	40	405	270	14	6	1.125	8.500	8.875	7.250	0.551	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	228
	213/215	200	318	222	102	40	421	270	14	6	1.375	8.500	8.875	7.250	0.551	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	234

REDUCER w/ NEMA C-Face Adapter - QF___

1 inch = 25.4 mm
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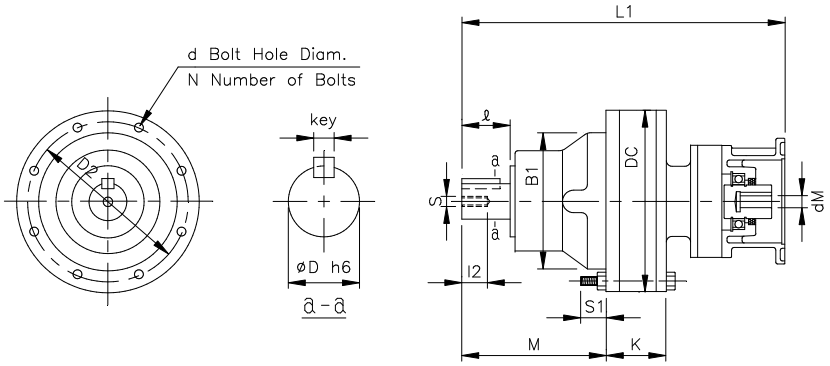
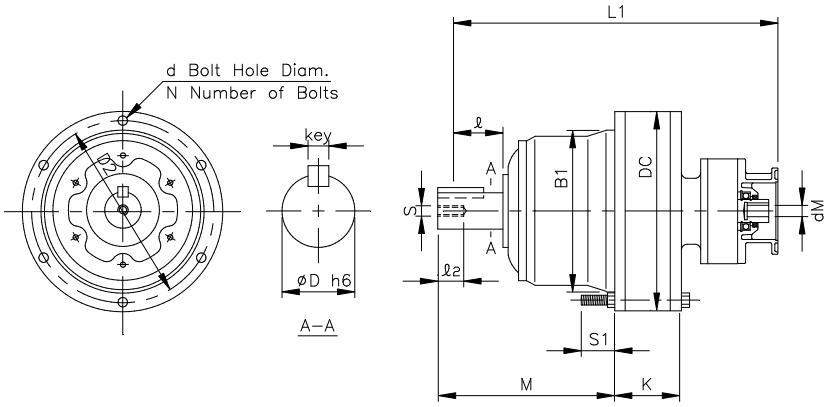
Contact factory for certified dimensions.

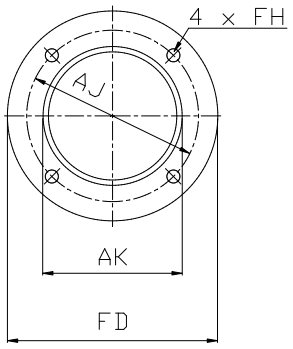
INCH SHAFT - DOUBLE STAGE - HOLLOW QUILL INPUT



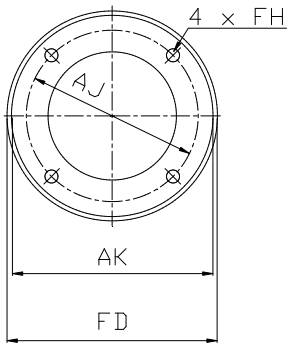
B1109-QF



B1310-QF ~ B1711-QF



NEMA
56C, 143/145



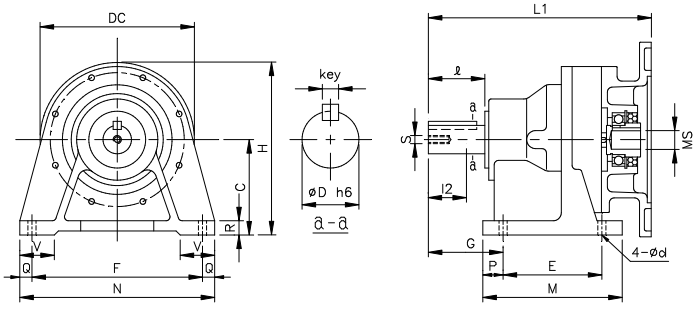
NEMA
182/184 & above

		Dim. in mm									Dim. in inch					Dim. in inch					
DARALI	Motor										NEMA C-Face Adapter					Output Shaft					Wt
Frame	Frame	B1	DC	M	K	S1	L1	D2	d	N	dM	AK	FD	AJ	FH	D	l	Key	s	l2	(lb)
B1109-QF	56C	140	204	139	61	28	336	180	11	6	0.625	4.500	6.625	5.875	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	62
	143/145	140	204	139	61	28	336	180	11	6	0.875	4.500	6.625	5.875	0.433	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	62
B1310-QF	56C	165	230	177	75	30	393	205	11	6	0.625	4.500	6.625	5.875	0.433	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	95
	143/145	165	230	177	75	30	393	205	11	6	0.875	4.500	6.625	5.875	0.433	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	95
B1409-QF	56C	165	230	197	75	30	407	205	11	6	0.625	4.500	6.625	5.875	0.433	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	93
	143/145	165	230	197	75	30	407	205	11	6	0.875	4.500	6.625	5.875	0.433	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	93
B1611-QF	56C	200	318	222	102	40	467	270	14	6	0.625	4.500	6.625	5.875	0.433	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	190
	143/145	200	318	222	102	40	467	270	14	6	0.875	4.500	6.625	5.875	0.433	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	190
	182/184	200	318	222	102	40	481	270	14	6	1.125	8.500	8.875	7.250	0.433	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	194
B1711-QF	56C	250	362	262	110	45	514	300	15	8	0.625	4.500	6.625	5.875	0.433	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	241
	143/145	250	362	262	110	45	514	300	15	8	0.875	4.500	6.625	5.875	0.433	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	241
	182/184	250	362	262	110	45	528	300	15	8	1.125	8.500	8.875	7.250	0.433	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	245

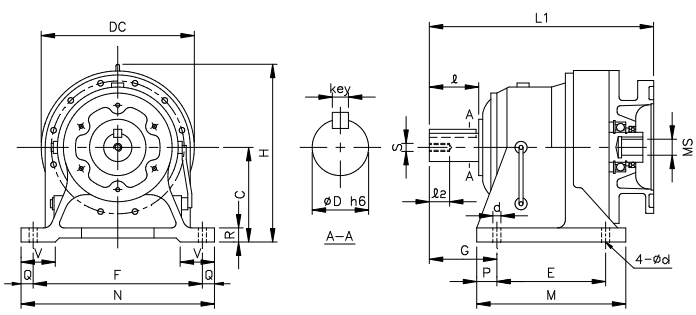
REDUCER w/ IEC D-Flange Adapter - JPH

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

METRIC SHAFT - SINGLE STAGE - HOLLOW QUILL INPUT



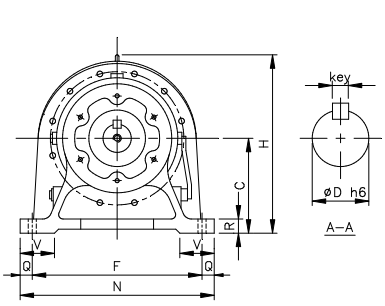
B09-JPH ~ B12-JPH



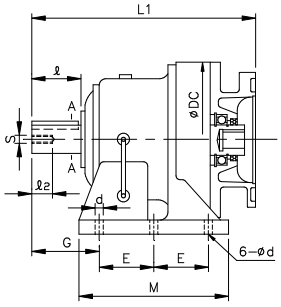
B13-JPH ~ B18-JPH

All dimensions in mm

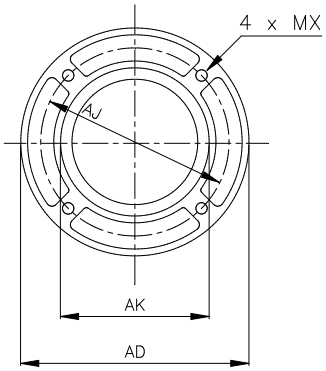
DARALI Frame	IEC Motor Frame	C	E	F	G	H	L1	M	N	P	Q	R	V	d	IEC D-Flange Adpt. AD	MX	MS	AJ	AK	Output Shaft D	l	Key	s	l2	Wt (kg)
B09-JPH	80	100	90	150	75	175	214	130	180	15	15	17	40	11	150	M10	19	165	130	28	50	8 x 7 x 32	M8	18	15
B10-JPH	80	100	90	150	75	175	220	135	180	15	15	17	40	11	150	M10	19	165	130	28	50	8 x 7 x 32	M8	18	16
	90L	100	90	150	75	175	230	135	180	15	15	17	40	11	150	M10	24	165	130	28	50	8 x 7 x 32	M8	18	16
B11-JPH	80	120	115	190	82	222	252	155	230	20	20	21	55	14	200	M10	19	165	130	38	55	8 x 7 x 32	M8	18	28
	90L	120	115	190	82	222	252	155	230	20	20	21	55	14	200	M10	24	165	130	38	55	10 x 8 x 50	M10	18	28
	100L/112M	120	115	190	82	222	262	155	230	20	20	21	55	14	200	M12	28	215	180	38	55	10 x 8 x 50	M10	18	30
B12-JPH	80	140	115	190	82	242	252	155	230	20	20	21	55	14	200	M10	19	165	130	38	55	8 x 7 x 32	M8	18	30
	90L	140	115	190	82	242	252	155	230	20	20	21	55	14	200	M10	24	165	130	38	55	10 x 8 x 50	M10	18	30
	100L/112M	140	115	190	82	242	262	155	230	20	20	21	55	14	200	M12	28	215	180	38	55	10 x 8 x 50	M10	18	32
B13-JPH	80	150	145	290	100	265	307	195	330	25	20	27	65	18	230	M10	19	165	130	50	70	10 x 8 x 50	M10	18	49
	90L	150	145	290	100	265	307	195	330	25	20	27	65	18	230	M10	24	165	130	50	70	14 x 9 x 56	M10	18	49
	100L / 112M	150	145	290	100	265	317	195	330	25	20	27	65	18	230	M12	28	215	180	50	70	14 x 9 x 56	M10	18	50
	132S / 132M	150	145	290	100	265	338	195	330	25	20	27	65	18	230	M12	38	265	230	50	70	14 x 9 x 56	M10	18	53
B14-JPH	80	150	145	290	120	265	327	195	330	25	20	27	65	18	230	M10	19	165	130	50	90	14 x 9 x 56	M10	18	49
	90L	150	145	290	120	265	327	195	330	25	20	27	65	18	230	M10	24	165	130	50	90	14 x 9 x 80	M10	18	49
	100L / 112M	150	145	290	120	265	337	195	330	25	20	27	65	18	230	M12	28	215	180	50	90	14 x 9 x 80	M10	18	51
	132S / 132M	150	145	290	120	265	358	195	330	25	20	27	65	18	230	M12	38	265	230	50	90	14 x 9 x 80	M10	18	54
B15-JPH	80	160	145	290	120	275	327	195	330	25	20	27	70	18	230	M10	19	165	130	50	90	14 x 9 x 80	M10	18	52
	90L	160	145	290	120	275	327	195	330	25	20	27	70	18	230	M10	24	165	130	50	90	14 x 9 x 80	M10	18	52
	100L / 112M	160	145	290	120	275	337	195	330	25	20	27	70	18	230	M12	28	215	180	50	90	14 x 9 x 80	M10	18	54
	132S / 132M	160	145	290	120	275	358	195	330	25	20	27	70	18	230	M12	38	265	230	50	90	14 x 9 x 80	M10	18	56
B16-JPH	90L	160	150	370	139	319	371	238	410	44	20	30	75	18	300	M10	24	165	130	60	90	14 x 9 x 80	M10	18	105
	100L / 112M	160	150	370	139	319	381	238	410	44	20	30	75	18	300	M12	28	215	180	60	90	18 x 11 x 80	M10	18	108
	132S / 132M	160	150	370	139	319	389	238	410	44	20	30	75	18	300	M12	38	265	230	60	90	18 x 11 x 80	M10	18	108
	160M / 160L	160	150	370	139	319	425	238	410	44	20	30	75	18	300	M18	42	300	250	60	90	18 x 11 x 80	M10	18	108
B17-JPH	100L / 112M	200	275	380	125	381	430	335	430	30	25	32	80	22	330	M12	28	215	180	70	90	18 x 11 x 80	M10	18	137
	132S / 132M	200	275	380	125	381	449	335	430	30	25	32	80	22	330	M12	38	265	230	70	90	20 x 12 x 80	M12	24	140
	160M / 160L	200	275	380	125	381	474	335	430	30	25	32	80	22	330	M18	42	300	250	70	90	20 x 12 x 80	M12	24	140
B18-JPH	132S / 132M	220	320	420	145	415	501	380	470	30	25	33	85	22	370	M12	38	265	230	80	110	22 x 14 x 100	M12	24	176
	160M / 160L	220	320	420	145	415	513	380	470	30	25	33	85	22	370	M18	42	300	250	80	110	22 x 14 x 100	M12	24	179
B19-JPH	132S / 132M	250	380	480	170	476	565	440	530	30	25	40	90	26	420	M12	38	265	230	95	135	22 x 14 x 100	M12	24	272
	160M / 160L	250	380	480	170	476	592	440	530	30	25	40	90	26	420	M18	42	300	250	95	135	25 x 14 x 125	M20	34	272
	180LA/180LC	250	380	480	170	476	593	440	530	30	25	40	90	26	420	M18	55	350	300	95	135	25 x 14 x 125	M20	34	272
B20-JPH	160M / 160L	250	360	440	215	485	637	440	530	40	45	40	100	26	450	M18	42	300	250	100	165	28 x 16 x 165	M20	34	286
A90-JPH	132S / 132M	290	240	560	215	556	672	560	620	40	30	40	100	26	500	M12	38	265	230	110	170	28 x 16 x 165	M20	34	435
	160M / 160L	290	240	560	215	556	702	560	620	40	30	40	100	26	500	M18	42	300	250	110	170	28 x 18 x155	M20	34	440
	180LA/180LC	290	240	560	215	556	702	560	620	40	30	40	100	26	500	M18	55	350	300	110	170	28 x 18 x155	M20	34	449



B19-JPH ~ B20-JPH



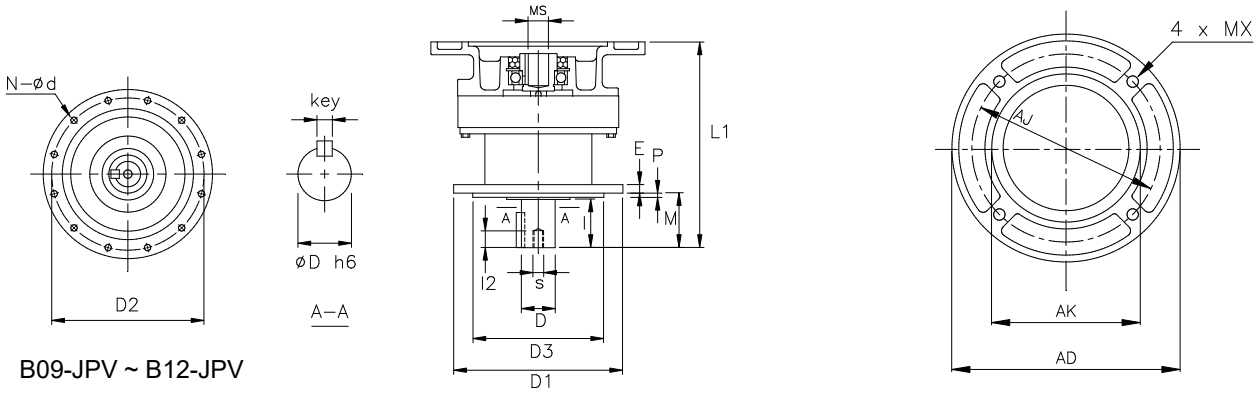
A90-JPH
(w/ 6 Mounting Holes)



REDUCER w/ IEC D-Flange Adapter - JPV___

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

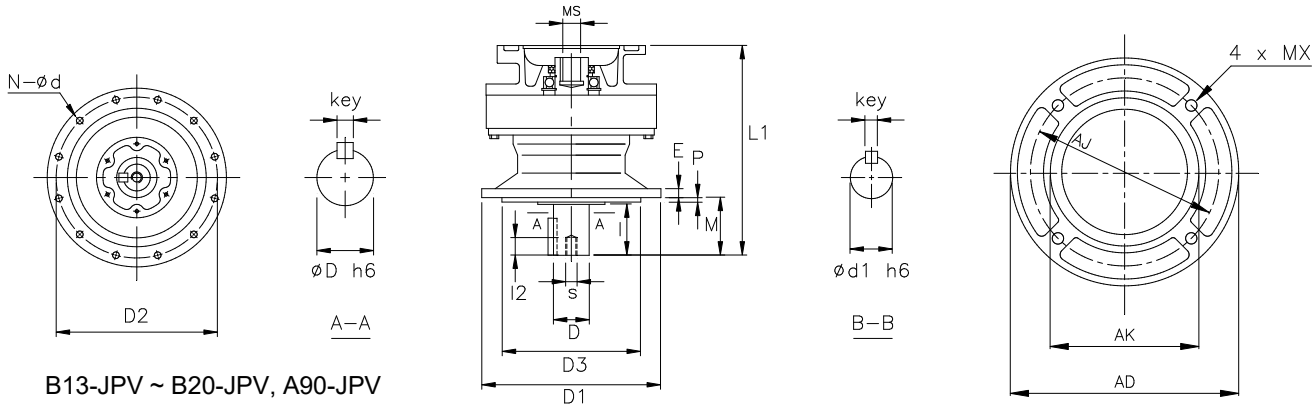
METRIC SHAFT - SINGLE STAGE - HOLLOW QUILL INPUT



B09-JPV ~ B12-JPV

All dimensions in mm

DARALI Frame	IEC Motor Frame	C	D1	D2	D3	E	M	N	d	P	IEC D-Flange Adpt. AD	MX	MS	AJ	AK	Output Shaft D	I	Key	s	I2	Wt (kg)
B09-JPV	80	214	160	134	110	9	63	4	11	3	150	M10	19	165	130	28	50	8 x 7 x 32	M8	18	15
B10-JPV	80	220	160	134	110	9	63	4	11	3	150	M10	19	165	130	28	50	8 x 7 x 32	M8	18	16
	90L	230	160	134	110	9	63	4	11	3	150	M10	24	165	130	28	50	8 x 7 x 32	M8	18	16
B11-JPV	80	252	210	180	140	13	69	6	11	4	200	M10	19	165	130	38	55	8 x 7 x 32	M8	18	28
	90L	252	210	180	140	13	69	6	11	4	200	M10	24	165	130	38	55	10 x 8 x 50	M10	18	28
	100L/112M	262	210	180	140	13	69	6	11	4	200	M12	28	215	180	38	55	10 x 8 x 50	M10	18	30
B12-JPV	80	252	210	180	140	13	69	6	11	4	200	M10	19	165	130	38	55	8 x 7 x 32	M8	18	28
	90L	252	210	180	140	13	69	6	11	4	200	M10	24	165	130	38	55	10 x 8 x 50	M10	18	28
→	100L/112M	262	210	180	140	13	69	6	11	4	200	M12	28	215	180	38	55	10 x 8 x 50	M10	18	30
B13-JPV	80	307	260	230	200	15	76	6	11	4	230	M10	19	165	130	50	70	10 x 8 x 50	M10	18	49
	90L	307	260	230	200	15	76	6	11	4	230	M10	24	165	130	50	70	14 x 9 x 56	M10	18	49
	100L / 112M	317	260	230	200	15	76	6	11	4	230	M12	28	215	180	50	70	14 x 9 x 56	M10	18	50
	132S / 132M	338	260	230	200	15	76	6	11	4	230	M12	38	265	230	50	70	14 x 9 x 56	M10	18	53
B14-JPV	80	327	260	230	200	15	96	6	11	4	230	M10	19	165	130	50	90	14 x 9 x 56	M10	18	49
	90L	327	260	230	200	15	96	6	11	4	230	M10	24	165	130	50	90	14 x 9 x 80	M10	18	49
	100L / 112M	337	260	230	200	15	96	6	11	4	230	M12	28	215	180	50	90	14 x 9 x 80	M10	18	51
	132S / 132M	358	260	230	200	15	96	6	11	4	230	M12	38	265	230	50	90	14 x 9 x 80	M10	18	54
B15-JPV	80	327	260	230	200	15	96	6	11	4	230	M10	19	165	130	50	90	14 x 9 x 80	M10	18	52
	90L	327	260	230	200	15	96	6	11	4	230	M10	24	165	130	50	90	14 x 9 x 80	M10	18	52
	100L / 112M	337	260	230	200	15	96	6	11	4	230	M12	28	215	180	50	90	14 x 9 x 80	M10	18	54
	132S / 132M	358	260	230	200	15	96	6	11	4	230	M12	38	265	230	50	90	14 x 9 x 80	M10	18	56
B16-JPV	90L	371	340	310	270	20	89	6	11	4	300	M10	24	165	130	60	90	14 x 9 x 80	M10	18	105
	100L / 112M	381	340	310	270	20	89	6	11	4	300	M12	28	215	180	60	90	18 x 11 x 80	M10	18	108
	132S / 132M	389	340	310	270	20	89	6	11	4	300	M12	38	265	230	60	90	18 x 11 x 80	M10	18	108
	160M / 160L	425	340	310	270	20	89	6	11	4	300	M18	42	300	250	60	90	18 x 11 x 80	M10	18	108
B17-JPV	100L / 112M	430	400	360	316	22	94	8	14	5	330	M12	28	215	180	70	90	18 x 11 x 80	M10	18	137
	132S / 132M	449	400	360	316	22	94	8	14	5	330	M12	38	265	230	70	90	20 x 12 x 80	M12	24	140
	160M / 160L	474	400	360	316	22	94	8	14	5	330	M18	42	300	250	70	90	20 x 12 x 80	M12	24	140
B18-JPV	132S / 132M	501	430	390	345	22	110	8	18	5	370	M12	38	265	230	80	110	22 x 14 x 100	M12	24	176
	160M / 160L	513	430	390	345	22	110	8	18	5	370	M18	42	300	250	80	110	22 x 14 x 100	M12	24	179
B19-JPV	132S / 132M	565	490	450	400	30	145	12	18	6	420	M12	38	265	230	95	135	22 x 14 x 100	M12	24	272
	160M / 160L	592	490	450	400	30	145	12	18	6	420	M18	42	300	250	95	135	25 x 14 x 125	M20	34	272
	180LA/180LC	593	490	450	400	30	145	12	18	6	420	M18	55	350	300	95	135	25 x 14 x 125	M20	34	272
B20-JPV	160M / 160L	637	455	405	355	30	204	8	22	5	450	M18	42	300	250	100	165	28 x 16 x 165	M20	34	286
A90-JPV	132S / 132M	672	580	520	455	35	190	12	22	8	500	M12	38	265	230	110	170	28 x 16 x 165	M20	34	435
	160M / 160L	702	580	520	455	35	190	12	22	8	500	M18	42	300	250	110	170	28 x 18 x155	M20	34	440
	180LA/180LC	702	580	520	455	35	190	12	22	8	500	M18	55	350	300	110	170	28 x 18 x155	M20	34	449

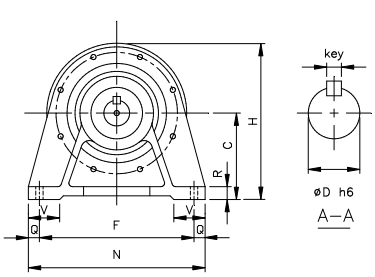


B13-JPV ~ B20-JPV, A90-JPV

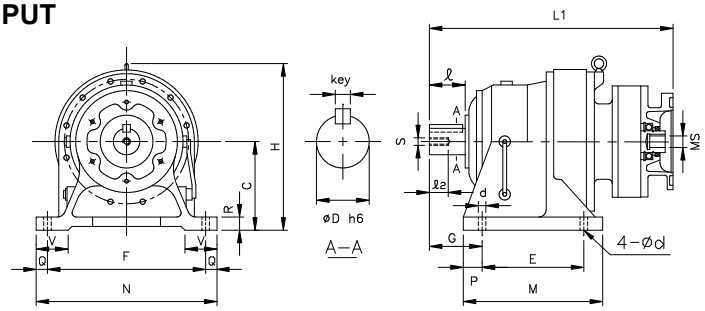
REDUCER w/ IEC D-Flange Adapter - JPH

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

METRIC SHAFT - DOUBLE STAGE - HOLLOW QUILL INPUT



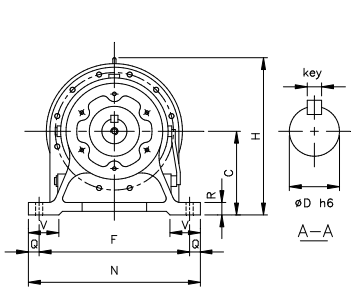
B1109-JPH

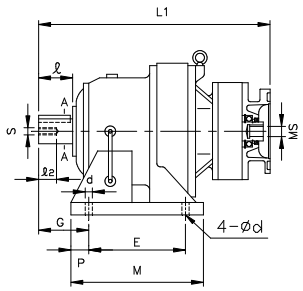


B1310-JPH ~ B1813-JPH

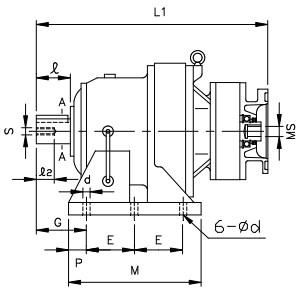
All dimensions in mm

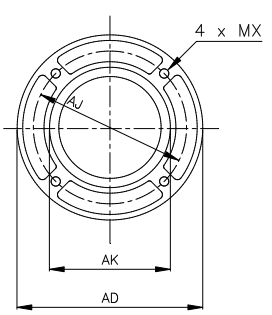
DARALI Frame	IEC Motor Frame	C	E	F	G	H	L1	M	N	P	Q	R	V	d	IEC D-Flange Adpt. AD	MX	MS	AJ	AK	Output Shaft D	l	Key	s	l2	Wt (kg)
B1109-JPH	80	120	115	190	82	222	309	155	230	20	20	21	55	14	200	M10	19	165	130	38	55	10 x 8 x 50	M10	18	32
B1310-JPH	80	150	145	290	100	265	366	195	330	25	20	27	65	18	200	M10	19	165	130	50	70	14 x 9 x 56	M10	18	56
	90L	150	145	290	100	265	376	195	330	25	20	27	65	18	200	M10	24	165	130	50	70	14 x 9 x 56	M10	18	56
B1611-JPH	80	160	150	370	139	319	455	238	410	44	20	30	75	18	200	M10	19	165	130	60	90	18 x 11 x 80	M10	18	98
	90L	160	150	370	139	319	455	238	410	44	20	30	75	18	200	M10	24	165	130	60	90	18 x 11 x 80	M10	18	98
	100L/112M	160	150	370	139	319	465	238	410	44	20	30	75	18	250	M12	28	215	180	60	90	18 x 11 x 80	M10	18	100
B1711-JPH	80	200	275	380	125	381	502	335	430	30	25	32	80	22	200	M10	19	165	130	70	90	20 x 12 x 80	M12	24	127
	90L	200	275	380	125	381	502	335	430	30	25	32	80	22	200	M10	24	165	130	70	90	20 x 12 x 80	M12	24	127
	100L/112M	200	275	380	125	381	512	335	430	30	25	32	80	22	250	M12	28	215	180	70	90	20 x 12 x 80	M12	24	129
B1813-JPH	80	220	320	420	145	415	563	380	470	30	25	33	85	22	200	M10	19	165	130	80	110	22 x 14 x 100	M12	24	171
	90L	220	320	420	145	415	563	380	470	30	25	33	85	22	200	M10	24	165	130	80	110	22 x 14 x 100	M12	24	171
	100L / 112M	220	320	420	145	415	573	380	470	30	25	33	85	22	250	M12	28	215	180	80	110	22 x 14 x 100	M12	24	172
	132S / 132M	220	320	420	145	415	594	380	470	30	25	33	85	22	300	M12	38	265	230	80	110	22 x 14 x 100	M12	24	175
B1911-JPH	80	250	380	480	170	476	622	440	530	30	25	40	90	26	200	M10	19	165	130	95	135	25 x 14 x 125	M20	34	245
	90L	250	380	480	170	476	622	440	530	30	25	40	90	26	200	M10	24	165	130	95	135	25 x 14 x 125	M20	34	245
	100L/112M	250	380	480	170	476	632	440	530	30	25	40	90	26	250	M12	28	215	180	95	135	25 x 14 x 125	M20	34	247
B1913-JPH	80	250	380	480	170	476	639	440	530	30	25	40	90	26	200	M10	19	165	130	95	135	25 x 14 x 125	M20	34	250
	90L	250	380	480	170	476	639	440	530	30	25	40	90	26	200	M10	24	165	130	95	135	25 x 14 x 125	M20	34	250
	100L / 112M	250	380	480	170	476	649	440	530	30	25	40	90	26	250	M12	28	215	180	95	135	25 x 14 x 125	M20	34	257
	132S / 132M	250	380	480	170	476	670	440	530	30	25	40	90	26	300	M12	38	265	230	95	135	25 x 14 x 125	M20	34	260
B2011-JPH	80	250	380	480	170	476	663	440	530	30	25	40	90	26	200	M10	19	165	130	100	165	28 x 16 x 165	M20	34	264
	90L	250	380	480	170	476	663	440	530	30	25	40	90	26	200	M10	24	165	130	100	165	28 x 16 x 165	M20	34	264
	100L/112M	250	380	480	170	476	673	440	530	30	25	40	90	26	250	M12	28	215	180	100	165	28 x 16 x 165	M20	34	266
B2013-JPH	80	250	360	440	215	485	691	440	530	40	45	40	100	26	200	M10	19	165	130	100	165	28 x 16 x 165	M20	34	279
	90L	250	360	440	215	485	691	440	530	40	45	40	100	26	200	M10	24	165	130	100	165	28 x 16 x 165	M20	34	279
	100L / 112M	250	360	440	215	485	701	440	530	40	45	40	100	26	250	M12	28	215	180	100	165	28 x 16 x 165	M20	34	280
	132S / 132M	250	360	440	215	485	722	440	530	40	45	40	100	26	300	M12	38	265	230	100	165	28 x 16 x 165	M20	34	283
B2113-JPH	80	265	395	480	210	518	717	475	580	40	50	42	110	26	200	M10	19	165	130	110	165	28 x 16 x 165	M20	34	360
	90L	265	395	480	210	518	717	475	580	40	50	42	110	26	200	M10	24	165	130	110	165	28 x 16 x 165	M20	34	360
	100L / 112M	265	395	480	210	518	727	475	580	40	50	42	110	26	250	M12	28	215	180	110	165	28 x 16 x 165	M20	34	361
	132S / 132M	265	395	480	210	518	748	475	580	40	50	42	110	26	300	M12	38	265	230	110	165	28 x 16 x 165	M20	34	364
B2116-JPH	90L	265	395	480	210	518	738	475	580	40	50	42	110	26	200	M10	24	165	130	110	165	28 x 16 x 165	M20	34	395
	100L / 112M	265	395	480	210	518	748	475	580	40	50	42	110	26	250	M12	28	215	180	110	165	28 x 16 x 165	M20	34	397
	132S / 132M	265	395	480	210	518	756	475	580	40	50	42	110	26	300	M12	38	265	230	110	165	28 x 16 x 165	M20	34	400
	160M / 160L	265	395	480	210	518	792	475	580	40	50	42	110	26	350	M18	42	300	250	110	165	28 x 16 x 165	M20	34	400
B2213-JPH	80	280	420	540	230	554	759	520	620	50	40	42	115	33	200	M10	19	165	130	120	165	32 x 18 x 165	M20	34	435
	90L	280	420	540	230	554	759	520	620	50	40	42	115	33	200	M10	24	165	130	120	165	32 x 18 x 165	M20	34	435
	100L / 112M	280	420	540	230	554	769	520	620	50	40	42	115	33	250	M12	28	215	180	120	165	32 x 18 x 165	M20	34	436
	132S / 132M	280	420	540	230	554	790	520	620	50	40	42	115	33	300	M12	38	265	230	120	165	32 x 18 x 165	M20	34	439
B2217-JPH	100L / 112M	280	420	540	230	554	813	520	620	50	40	42	115	33	250	M12	28	215	180	120	165	32 x 18 x 165	M20	34	494
	132S / 132M	280	420	540	230	554	832	520	620	50	40	42	115	33	300	M12	38	265	230	120	165	32 x 18 x 165	M20	34	494
	160M / 160L	280	420	540	230	554	857	520	620	50	40	42	115	33	350	M18	42	300	250	120	165	32 x 18 x 165	M20	34	496





B1911-JPH ~ B2719-JPH



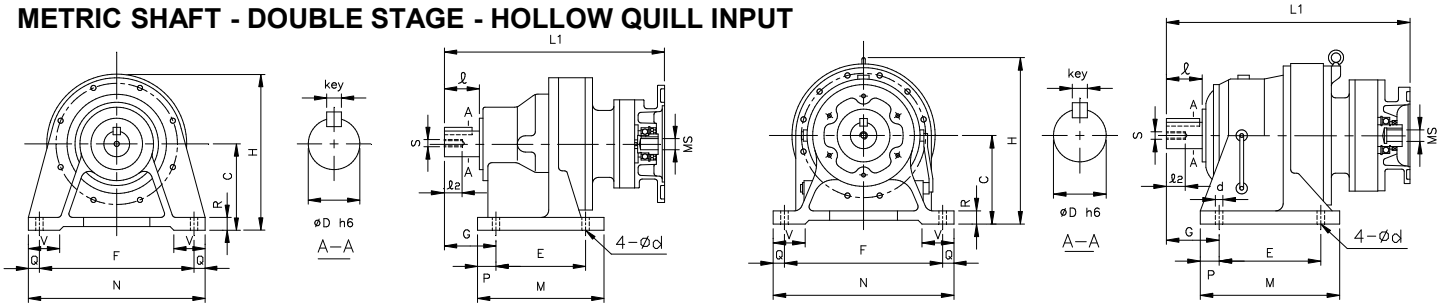


B2719-JPH, A904-JPH ~ A939-JPH
(w/ 6 Mounting Holes)

REDUCER w/ IEC D-Flange Adapter - JPH

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

METRIC SHAFT - DOUBLE STAGE - HOLLOW QUILL INPUT

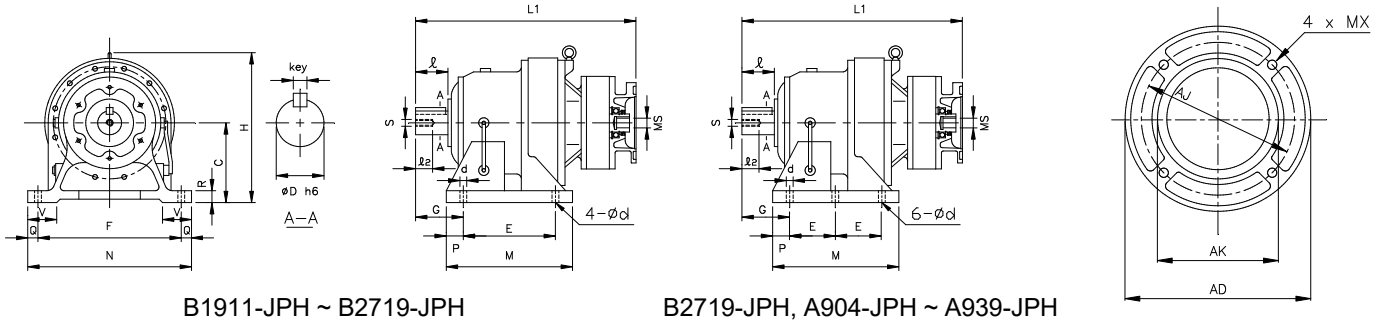


B1109-JPH

B1310-JPH ~ B1813-JPH

All dimensions in mm

DARALI Frame	IEC Motor Frame	C	E	F	G	H	L1	M	N	P	Q	R	V	d	IEC D-Flange Adpt. AD	MX	MS	AJ	AK	Output Shaft D	l	Key	s	l2	Wt (kg)
B2316-JPH	90L	300	460	580	260	595	841	560	670	50	45	45	120	33	300	M10	24	165	130	130	200	32 x 18 x 200	M24	41	569
	100L / 112M	300	460	580	260	595	851	560	670	50	45	45	120	33	300	M12	28	215	180	130	200	32 x 18 x 200	M24	41	570
	132S / 132M	300	460	580	260	595	859	560	670	50	45	45	120	33	300	M12	38	265	230	130	200	32 x 18 x 200	M24	41	572
	160M / 160L	300	460	580	260	595	895	560	670	50	45	45	120	33	300	M18	42	300	250	130	200	32 x 18 x 200	M24	41	572
B2318-JPH	132S / 132M	300	460	580	260	595	912	560	670	50	45	45	120	33	370	M12	38	265	230	130	200	32 x 18 x 200	M24	41	608
	160M / 160L	300	460	580	260	595	924	560	670	50	45	45	120	33	370	M18	42	300	250	130	200	32 x 18 x 200	M24	41	610
B2416-JPH	90L	335	480	630	263	654	879	580	720	50	45	45	128	39	300	M10	24	165	130	140	200	36 x 20 x 200	M24	41	677
	100L / 112M	335	480	630	263	654	889	580	720	50	45	45	128	39	300	M12	28	215	180	140	200	36 x 20 x 200	M24	41	678
	132S / 132M	335	480	630	263	654	897	580	720	50	45	45	128	39	300	M12	38	265	230	140	200	36 x 20 x 200	M24	41	680
	160M / 160L	335	480	630	263	654	933	580	720	50	45	45	128	39	300	M18	42	300	250	140	200	36 x 20 x 200	M24	41	680
B2418-JPH	132S / 132M	335	480	630	263	654	949	580	720	50	45	45	128	39	370	M12	38	265	230	140	200	36 x 20 x 200	M24	41	712
	160M / 160L	335	480	630	263	654	961	580	720	50	45	45	128	39	370	M18	42	300	250	140	200	36 x 20 x 200	M24	41	714
B2517-JPH	100L / 112M	375	520	670	320	726	1034	630	780	55	55	50	140	39	330	M12	28	215	180	160	240	40 x 22 x 240	M30	49	982
	132S / 132M	375	520	670	320	726	1053	630	780	55	55	50	140	39	330	M12	38	265	230	160	240	40 x 22 x 240	M30	49	1028
	160M / 160L	375	520	670	320	726	1078	630	780	55	55	50	140	39	330	M18	42	300	250	160	240	40 x 22 x 240	M30	49	1030
B2519-JPH	132S / 132M	375	520	670	320	726	1078	630	780	55	55	50	140	39	420	M12	38	265	230	160	240	40 x 22 x 240	M30	49	1118
	160M / 160L	375	520	670	320	726	1105	630	780	55	55	50	140	39	420	M18	42	300	250	160	240	40 x 22 x 240	M30	49	1118
	180LA/180LC	375	520	670	320	726	1106	630	780	55	55	50	140	39	420	M18	55	350	300	160	240	40 x 22 x 240	M30	49	1118
B2619-JPH	132S / 132M	400	590	770	390	786	1188	700	880	55	55	55	160	45	420	M12	38	265	230	170	300	40 x 22 x 300	M30	49	1373
	160M / 160L	400	590	770	390	786	1215	700	880	55	55	55	160	45	420	M18	42	300	250	170	300	40 x 22 x 300	M30	49	1373
	180LA/180LC	400	590	770	390	786	1216	700	880	55	55	55	160	45	420	M18	55	350	300	170	300	40 x 22 x 300	M30	49	1373
B2719-JPH	132S / 132M	540	420	1050	485	1033	1449	1040	1160	100	55	60	200	45	420	M12	38	265	230	180	330	45 x 25 x 330	M30	52	2513
	160M / 160L	540	420	1050	485	1033	1476	1040	1160	100	55	60	200	45	420	M18	42	300	250	180	330	45 x 25 x 330	M30	52	2513
	180LA/180LC	540	420	1050	485	1033	1477	1040	1160	100	55	60	200	45	420	M18	55	350	300	180	330	45 x 25 x 330	M30	52	2513
A904-JPH	80	290	240	560	215	556	749	560	620	40	30	40	100	26	230	M10	19	165	130	110	170	28 x 18 x155	M20	34	401
	90L	290	240	560	215	556	749	560	620	40	30	40	100	26	230	M10	24	165	130	110	170	28 x 18 x155	M20	34	401
	100L / 112M	290	240	560	215	556	759	560	620	40	30	40	100	26	230	M12	28	215	180	110	170	28 x 18 x155	M20	34	402
	132S / 132M	290	240	560	215	556	780	560	620	40	30	40	100	26	230	M12	38	265	230	110	170	28 x 18 x155	M20	34	406
A906-JPH	90L	290	240	560	215	556	768	560	620	40	30	40	100	26	300	M10	24	165	130	110	170	28 x 18 x155	M20	34	443
	100L / 112M	290	240	560	215	556	778	560	620	40	30	40	100	26	300	M12	28	215	180	110	170	28 x 18 x155	M20	34	445
	132S / 132M	290	240	560	215	556	786	560	620	40	30	40	100	26	300	M12	38	265	230	110	170	28 x 18 x155	M20	34	447
	160M / 160L	290	240	560	215	556	822	560	620	40	30	40	100	26	300	M18	42	300	250	110	170	28 x 18 x155	M20	34	447
A916-JPH	90L	325	250	630	290	625	868	600	690	50	30	40	105	26	300	M10	24	165	130	120	210	32 x 20 x195	M24	42	583
	100L / 112M	325	250	630	290	625	878	600	690	50	30	40	105	26	300	M12	28	215	180	120	210	32 x 20 x195	M24	42	585
	132S / 132M	325	250	630	290	625	886	600	690	50	30	40	105	26	300	M12	38	265	230	120	210	32 x 20 x195	M24	42	587
	160M / 160L	325	250	630	290	625	922	600	690	50	30	40	105	26	300	M18	42	300	250	120	210	32 x 20 x195	M24	42	587
A917-JPH	100L / 112M	325	250	630	290	625	890	600	690	50	30	40	105	26	330	M12	28	215	180	120	210	32 x 20 x195	M24	42	612
	132S / 132M	325	250	630	290	625	909	600	690	50	30	40	105	26	330	M12	38	265	230	120	210	32 x 20 x195	M24	42	615
	160M / 160L	325	250	630	290	625	934	600	690	50	30	40	105	26	330	M18	42	300	250	120	210	32 x 20 x195	M24	42	619
A928-JPH	132S / 132M	420	330	800	372	800	1132	810	880	75	40	50	143	39	370	M12	38	265	230	140	250	35 x 22 x 230	M30	52	1150
	160M / 160L	420	330	800	372	800	1144	810	880	75	40	50	143	39	370	M18	42	300	250	140	250	35 x 22 x 230	M30	52	1152
A939-JPH	132S / 132M	540	420	1050	485	1045	1449	1040	1160	100	55	60	200	45	420	M12	38	265	230	180	330	42 x 26 x 265	M30	52	2527
	160M / 160L	540	420	1050	485	1045	1476	1040	1160	100	55	60	200	45	420	M18	42	300	250	180	330	42 x 26 x 265	M30	52	2527
	180LA/180LC	540	420	1050	485	1045	1477	1040	1160	100	55	60	200	45	420	M18	55	350	300	180	330	42 x 26 x 265	M30	52	2527



B1911-JPH ~ B2719-JPH

B2719-JPH, A904-JPH ~ A939-JPH
(w/ 6 Mounting Holes)

REDUCER w/ IEC D-Flange Adapter - JPV__

1 inch = 25.4 mm
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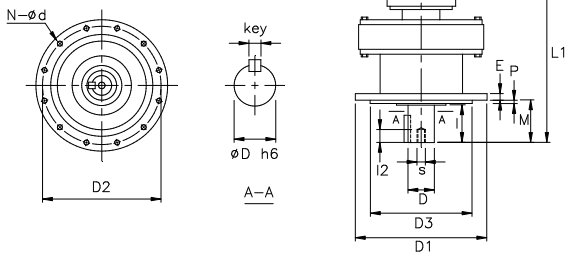
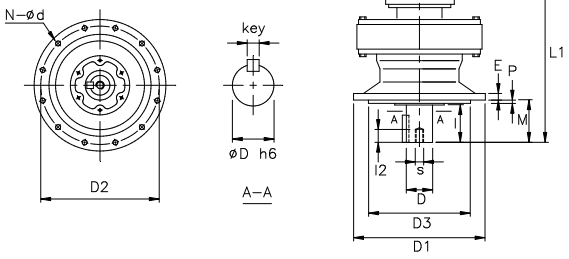
Contact factory for certified dimensions.

METRIC SHAFT - DOUBLE STAGE - HOLLOW QUILL INPUT

B1109-JPV



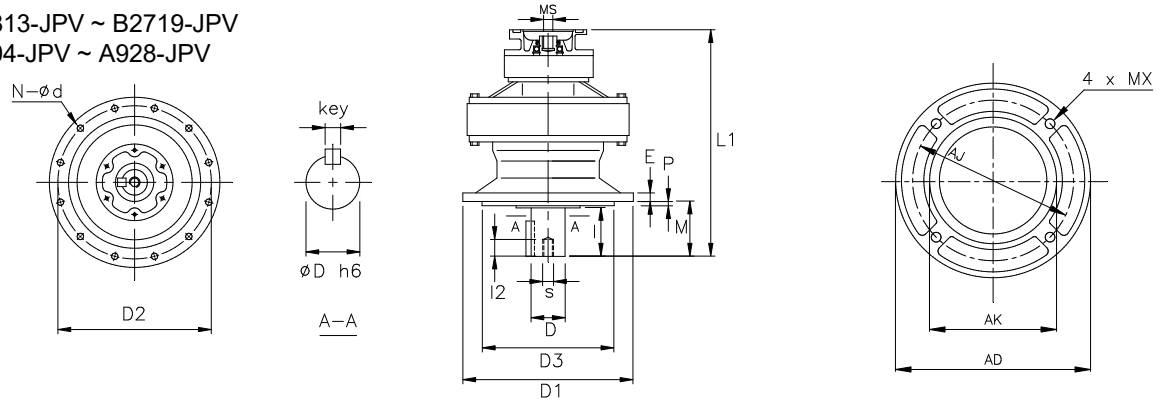
B1310-JPV ~ B1711-JPV



All dimensions in mm

DARALI Frame	IEC Motor Frame	L1	D1	D2	D3	E	M	N	d	P	IEC D-Flange Adpt. AD	MX	MS	AJ	AK	Output Shaft D	I	Key	s	I2	Wt (kg)
B1109-JPV	80	309	210	180	140	13	69	6	11	4	150	M10	19	165	130	38	55	10 x 8 x 50	M10	18	32
B1310-JPV	80	366	260	230	200	15	76	6	11	4	150	M10	19	165	130	50	70	14 x 9 x 56	M10	18	56
	90L	376	260	230	200	15	76	6	11	4	150	M10	24	165	130	50	70	14 x 9 x 56	M10	18	56
B1611-JPV	80	455	340	310	270	20	89	6	11	4	200	M10	19	165	130	60	90	18 x 11 x 80	M10	18	98
	90L	455	340	310	270	20	89	6	11	4	200	M10	24	165	130	60	90	18 x 11 x 80	M10	18	98
	100L/112M	465	340	310	270	20	89	6	11	4	200	M12	28	215	180	60	90	18 x 11 x 80	M10	18	100
B1711-JPV	80	502	400	360	316	22	94	8	14	5	200	M10	19	165	130	70	90	20 x 12 x 80	M12	24	127
	90L	502	400	360	316	22	94	8	14	5	200	M10	24	165	130	70	90	20 x 12 x 80	M12	24	127
	100L/112M	512	400	360	316	22	94	8	14	5	200	M12	28	215	180	70	90	20 x 12 x 80	M12	24	129
B1813-JPV	80	563	430	390	345	22	110	8	18	5	230	M10	19	165	130	80	110	22 x 14 x 100	M12	24	171
	90L	563	430	390	345	22	110	8	18	5	230	M10	24	165	130	80	110	22 x 14 x 100	M12	24	171
	100L / 112M	573	430	390	345	22	110	8	18	5	230	M12	28	215	180	80	110	22 x 14 x 100	M12	24	172
	132S / 132M	594	430	390	345	22	110	8	18	5	230	M12	38	265	230	80	110	22 x 14 x 100	M12	24	175
B1911-JPV	80	622	490	450	400	30	145	12	18	6	200	M10	19	165	130	95	135	25 x 14 x 125	M20	34	245
	90L	622	490	450	400	30	145	12	18	6	200	M10	24	165	130	95	135	25 x 14 x 125	M20	34	245
	100L/112M	632	490	450	400	30	145	12	18	6	200	M12	28	215	180	95	135	25 x 14 x 125	M20	34	247
B1913-JPV	80	639	490	450	400	30	145	12	18	6	230	M10	19	165	130	95	135	25 x 14 x 125	M20	34	250
	90L	639	490	450	400	30	145	12	18	6	230	M10	24	165	130	95	135	25 x 14 x 125	M20	34	250
	100L / 112M	649	490	450	400	30	145	12	18	6	230	M12	28	215	180	95	135	25 x 14 x 125	M20	34	257
	132S / 132M	670	490	450	400	30	145	12	18	6	230	M12	38	265	230	95	135	25 x 14 x 125	M20	34	260
B2011-JPV	80	663	455	405	355	30	204	8	22	5	200	M10	19	165	130	100	165	28 x 16 x 165	M20	34	264
	90L	663	455	405	355	30	204	8	22	5	200	M10	24	165	130	100	165	28 x 16 x 165	M20	34	264
	100L/112M	673	455	405	355	30	204	8	22	5	200	M12	28	215	180	100	165	28 x 16 x 165	M20	34	266
B2013-JPV	80	691	455	405	355	30	204	8	22	5	230	M10	19	165	130	100	165	28 x 16 x 165	M20	34	279
	90L	691	455	405	355	30	204	8	22	5	230	M10	24	165	130	100	165	28 x 16 x 165	M20	34	279
	100L / 112M	701	455	405	355	30	204	8	22	5	230	M12	28	215	180	100	165	28 x 16 x 165	M20	34	280
	132S / 132M	722	455	405	355	30	204	8	22	5	230	M12	38	265	230	100	165	28 x 16 x 165	M20	34	283
B2113-JPV	80	717	490	440	390	35	203	8	24	7	230	M10	19	165	130	110	165	28 x 16 x 165	M20	34	360
	90L	717	490	440	390	35	203	8	24	7	230	M10	24	165	130	110	165	28 x 16 x 165	M20	34	360
	100L / 112M	727	490	440	390	35	203	8	24	7	230	M12	28	215	180	110	165	28 x 16 x 165	M20	34	361
	132S / 132M	748	490	440	390	35	203	8	24	7	230	M12	38	265	230	110	165	28 x 16 x 165	M20	34	364
B2116-JPV	90L	738	490	440	390	35	203	8	24	7	300	M10	24	165	130	110	165	28 x 16 x 165	M20	34	395
	100L / 112M	748	490	440	390	35	203	8	24	7	300	M12	28	215	180	110	165	28 x 16 x 165	M20	34	397
	132S / 132M	756	490	440	390	35	203	8	24	7	300	M12	38	265	230	110	165	28 x 16 x 165	M20	34	400
	160M / 160L	792	490	440	390	35	203	8	24	7	300	M18	42	300	250	110	165	28 x 16 x 165	M20	34	400
B2213-JPV	80	759	535	475	415	35	210	8	27	10	230	M10	19	165	130	120	165	32 x 18 x 165	M20	34	435
	90L	759	535	475	415	35	210	8	27	10	230	M10	24	165	130	120	165	32 x 18 x 165	M20	34	435
	100L / 112M	769	535	475	415	35	210	8	27	10	230	M12	28	215	180	120	165	32 x 18 x 165	M20	34	436
	132S / 132M	790	535	475	415	35	210	8	27	10	230	M12	38	265	230	120	165	32 x 18 x 165	M20	34	439
B2217-JPV	100L / 112M	813	535	475	415	35	210	8	27	10	330	M12	28	215	180	120	165	32 x 18 x 165	M20	34	494
	132S / 132M	832	535	475	415	35	210	8	27	10	330	M12	38	265	230	120	165	32 x 18 x 165	M20	34	494
	160M / 160L	857	535	475	415	35	210	8	27	10	330	M18	42	300	250	120	165	32 x 18 x 165	M20	34	496

B1813-JPV ~ B2719-JPV
A904-JPV ~ A928-JPV



REDUCER w/ IEC D-Flange Adapter - JPV__

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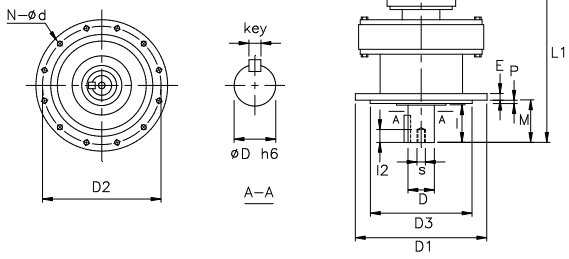
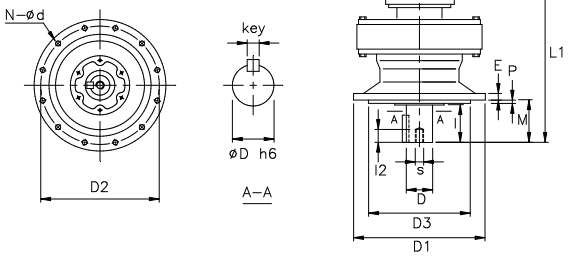
METRIC SHAFT - DOUBLE STAGE - HOLLOW QUILL INPUT

B1109-JPV



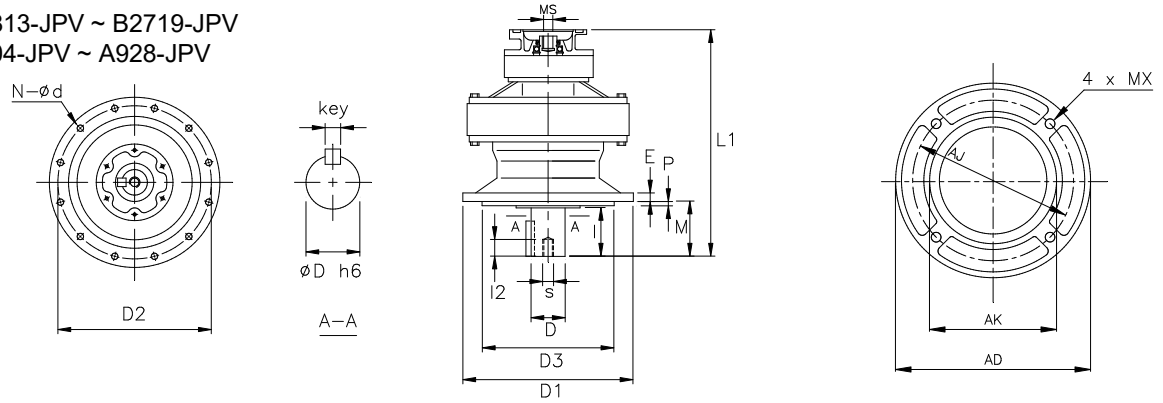
B1310-JPV ~ B1711-JPV



All dimensions in mm

DARALI Frame	IEC Motor Frame	L1	D1	D2	D3	E	M	N	d	P	IEC D-Flange Adpt. AD	MX	MS	AJ	AK	Output Shaft D	l	Key	s	l2	Wt (kg)
B2316-JPV	90L	841	570	510	450	40	250	8	27	10	300	M10	24	165	130	130	200	32 x 18 x 200	M24	41	569
	100L / 112M	851	570	510	450	40	250	8	27	10	300	M12	28	215	180	130	200	32 x 18 x 200	M24	41	570
	132S / 132M	859	570	510	450	40	250	8	27	10	300	M12	38	265	230	130	200	32 x 18 x 200	M24	41	572
	160M / 160L	895	570	510	450	40	250	8	27	10	300	M18	42	300	250	130	200	32 x 18 x 200	M24	41	572
B2318-JPV	132S / 132M	912	570	510	450	40	250	8	27	10	370	M12	38	265	230	130	200	32 x 18 x 200	M24	41	608
	160M / 160L	924	570	510	450	40	250	8	27	10	370	M18	42	300	250	130	200	32 x 18 x 200	M24	41	610
B2416-JPV	90L	879	635	560	485	40	250	8	33	10	300	M10	24	165	130	140	200	36 x 20 x 200	M24	41	677
	100L / 112M	889	635	560	485	40	250	8	33	10	300	M12	28	215	180	140	200	36 x 20 x 200	M24	41	678
	132S / 132M	897	635	560	485	40	250	8	33	10	300	M12	38	265	230	140	200	36 x 20 x 200	M24	41	680
	160M / 160L	933	635	560	485	40	250	8	33	10	300	M18	42	300	250	140	200	36 x 20 x 200	M24	41	680
B2418-JPV	132S / 132M	949	635	560	485	40	250	8	33	10	370	M12	38	265	230	140	200	36 x 20 x 200	M24	41	712
	160M / 160L	961	635	560	485	40	250	8	33	10	370	M18	42	300	250	140	200	36 x 20 x 200	M24	41	714
B2517-JPV	100L / 112M	1034	685	610	535	45	295	8	33	10	330	M12	28	215	180	160	240	40 x 22 x 240	M30	49	982
	132S / 132M	1053	685	610	535	45	295	8	33	10	330	M12	38	265	230	160	240	40 x 22 x 240	M30	49	1028
	160M / 160L	1078	685	610	535	45	295	8	33	10	330	M18	42	300	250	160	240	40 x 22 x 240	M30	49	1030
B2519-JPV	132S / 132M	1078	685	610	535	45	295	8	33	10	420	M12	38	265	230	160	240	40 x 22 x 240	M30	49	1118
	160M / 160L	1105	685	610	535	45	295	8	33	10	420	M18	42	300	250	160	240	40 x 22 x 240	M30	49	1118
	180LA/180LC	1106	685	610	535	45	295	8	33	10	420	M18	55	350	300	160	240	40 x 22 x 240	M30	49	1118
B2619-JPV	132S / 132M	1188	750	660	570	50	360	8	39	10	420	M12	38	265	230	170	300	40 x 22 x 300	M30	49	1373
	160M / 160L	1215	750	660	570	50	360	8	39	10	420	M18	42	300	250	170	300	40 x 22 x 300	M30	49	1373
	180LA/180LC	1216	750	660	570	50	360	8	39	10	420	M18	55	350	300	170	300	40 x 22 x 300	M30	49	1373
B2719-JPV	132S / 132M	1449	1160	1020	900	60	355	8	39	10	420	M12	38	265	230	180	330	45 x 25 x 330	M30	52	2513
	160M / 160L	1476	1160	1020	900	60	355	8	39	10	420	M18	42	300	250	180	330	45 x 25 x 330	M30	52	2513
	180LA/180LC	1477	1160	1020	900	60	355	8	39	10	420	M18	55	350	300	180	330	45 x 25 x 330	M30	52	2513
A904-JPV	80	749	580	520	455	35	190	12	22	8	230	M10	19	165	130	110	170	28 x 18 x155	M20	34	401
	90L	749	580	520	455	35	190	12	22	8	230	M10	24	165	130	110	170	28 x 18 x155	M20	34	401
	100L / 112M	759	580	520	455	35	190	12	22	8	230	M12	28	215	180	110	170	28 x 18 x155	M20	34	402
	132S / 132M	780	580	520	455	35	190	12	22	8	230	M12	38	265	230	110	170	28 x 18 x155	M20	34	406
A906-JPV	90L	768	580	520	455	35	190	12	22	8	300	M10	24	165	130	110	170	28 x 18 x155	M20	34	443
	100L / 112M	778	580	520	455	35	190	12	22	8	300	M12	28	215	180	110	170	28 x 18 x155	M20	34	445
	132S / 132M	786	580	520	455	35	190	12	22	8	300	M12	38	265	230	110	170	28 x 18 x155	M20	34	447
	160M / 160L	822	580	520	455	35	190	12	22	8	300	M18	42	300	250	110	170	28 x 18 x155	M20	34	447
A916-JPV	90L	868	650	590	520	40	242	12	22	10	300	M10	24	165	130	120	210	32 x 20 x195	M24	42	583
	100L / 112M	878	650	590	520	40	242	12	22	10	300	M12	28	215	180	120	210	32 x 20 x195	M24	42	585
	132S / 132M	886	650	590	520	40	242	12	22	10	300	M12	38	265	230	120	210	32 x 20 x195	M24	42	587
	160M / 160L	922	650	590	520	40	242	12	22	10	300	M18	42	300	250	120	210	32 x 20 x195	M24	42	587
A917-JPV	100L / 112M	890	650	590	520	40	242	12	22	10	330	M12	28	215	180	120	210	32 x 20 x195	M24	42	612
	132S / 132M	909	650	590	520	40	242	12	22	10	330	M12	38	265	230	120	210	32 x 20 x195	M24	42	615
	160M / 160L	934	650	590	520	40	242	12	22	10	330	M18	42	300	250	120	210	32 x 20 x195	M24	42	619
A928-JPV	132S / 132M	1132	880	800	680	50	252	12	33	10	370	M12	38	265	230	140	250	35 x 22 x 230	M30	52	1150
	160M / 160L	1144	880	800	680	50	252	12	33	10	370	M18	42	300	250	140	250	35 x 22 x 230	M30	52	1152

B1813-JPV ~ B2719-JPV
A904-JPV ~ A928-JPV



INTEGRAL GEARMOTOR - MH

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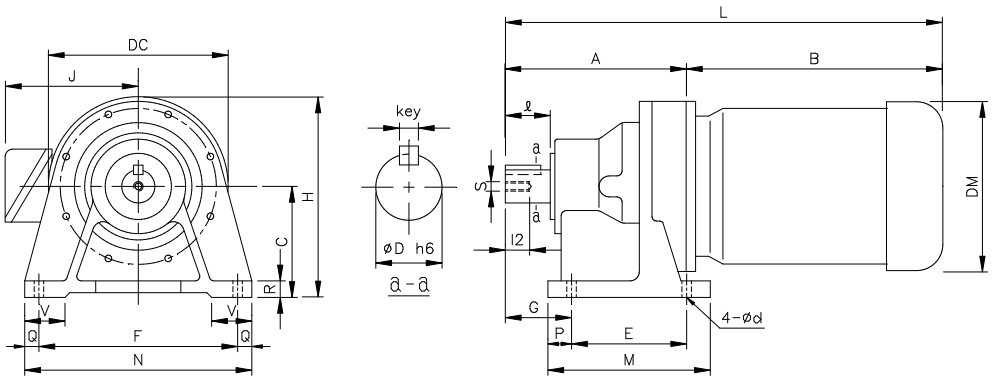
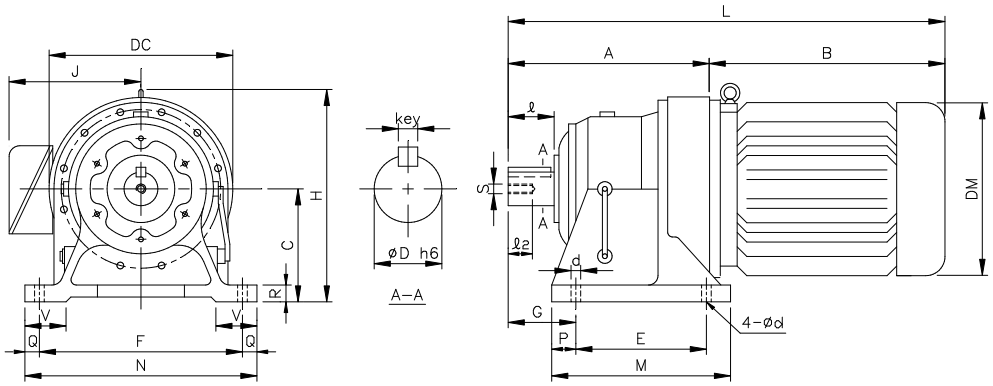
INCH SHAFT - SINGLE STAGE



B07-MH ~ B12-MH



B13-MH ~ B14-MH

Dim. in mm → Dim. in inch

FRAME SIZE	A	B	C	DC	DM	E	F	G	H	J	L	M	N	P	Q	R	V	d	Output Shaft D	Output Shaft l	Output Shaft Key	Output Shaft s	Output Shaft l2	Wt (lb)
B07-(1/8M)H	92	218	80	110	144	60	120	41	135	115	310	84	144	12	12	12	35	9	.500	0.98	1/8 x 1/8 x .79	M6	12	18
B08-(1/8M)H	98	218			144					115	316													20
B08-(1/4M)H	98	218	80	110	144	60	120	47	135	115	316	84	144	12	12	12	35	9	.750	1.18	3/16 x 3/16 x 1.06	M6	12	29
B08-(1/2M)H	98	238			162					125	336													37
B09-(1/8M)H	157	218			144					115	375													37
B09-(1/4M)H	157	218	100	150	144	90	150	75	175	115	375	130	180	15	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	46
B09-(1/2M)H	157	238			162					125	395													57
B09-(1M)H	157	248			177					137	405													62
B10-(1/8M)H	171	204			144					115	375													42
B10-(1/4M)H	171	204			144					115	375													51
B10-(1/2M)H	171	224	100	150	162	90	150	75	175	125	395	135	180	15	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	62
B10-(1M)H	171	234			177					137	405													66
B10-(2M)H	171	270			200					150	441													86
B10-(3M)H	171	301			219					173	472													106
B11-(1/2M)H	186	244			162					125	430													86
B11-(1M)H	186	254			177					137	440													90
B11-(2M)H	186	287	120	204	200	115	190	82	222	150	473	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	110
B11-(3M)H	186	319			219					173	505													130
B11-(5M)H	186	349			238					182	535													157
B12-(1/2M)H	186	244			162					125	430													90
B12-(1M)H	186	254			177					137	440													94
B12-(2M)H	186	287	140	204	200	115	190	82	242	150	473	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	114
B12-(3M)H	186	319			219					173	505													134
B12-(5M)H	186	349			238					182	535													161
B13-(1M)H	240	250			177					137	490													132
B13-(2M)H	240	290			200					150	530													152
B13-(3M)H	240	320	150	230	219	145	290	100	265	173	560	195	330	25	20	27	65	18	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	172
B13-(5M)H	240	350			238					182	590													198
B13-(8M)H	240	395			273					218	635													238
B13-(10M)H	240	435			273					218	675													260
B14-(1M)H	260	250			177					137	510													137
B14-(2M)H	260	290			200					150	550													157
B14-(3M)H	260	320	150	230	219	145	290	120	265	173	580	195	330	25	20	27	65	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	176
B14-(5M)H	260	350			238					182	610													203
B14-(8M)H	260	395			273					218	655													243
B14-(10M)H	260	435			273					218	695													265

INTEGRAL GEARMOTOR - MH

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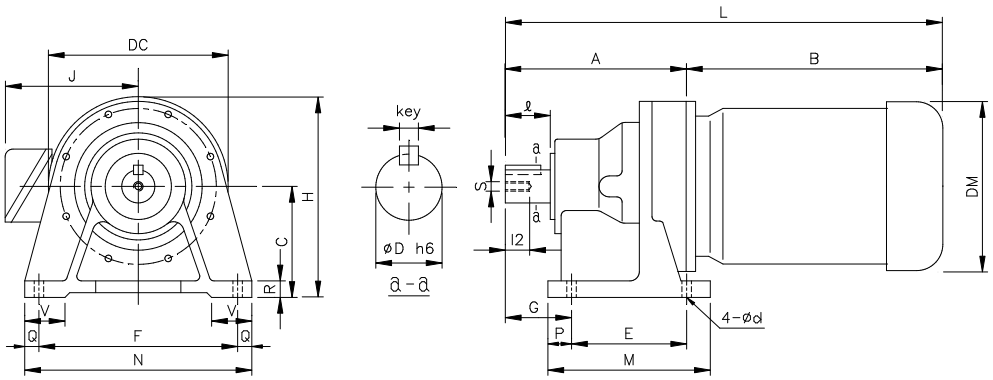
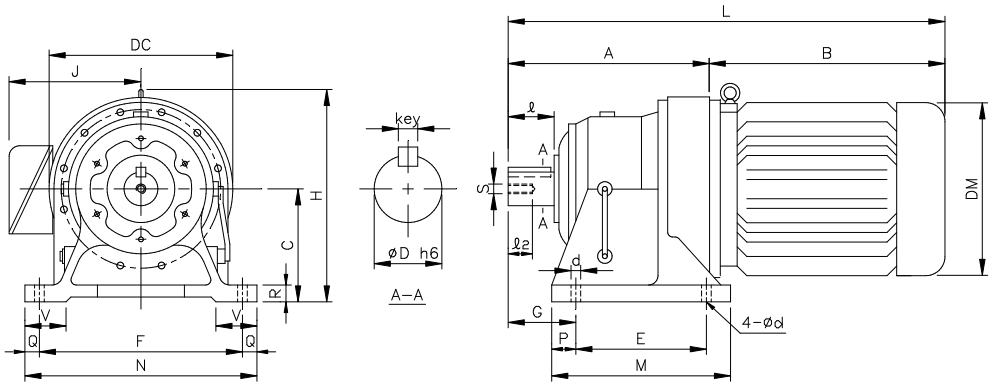
Contact factory for certified dimensions.

METRIC SHAFT - SINGLE STAGE



B07-MH ~ B12-MH



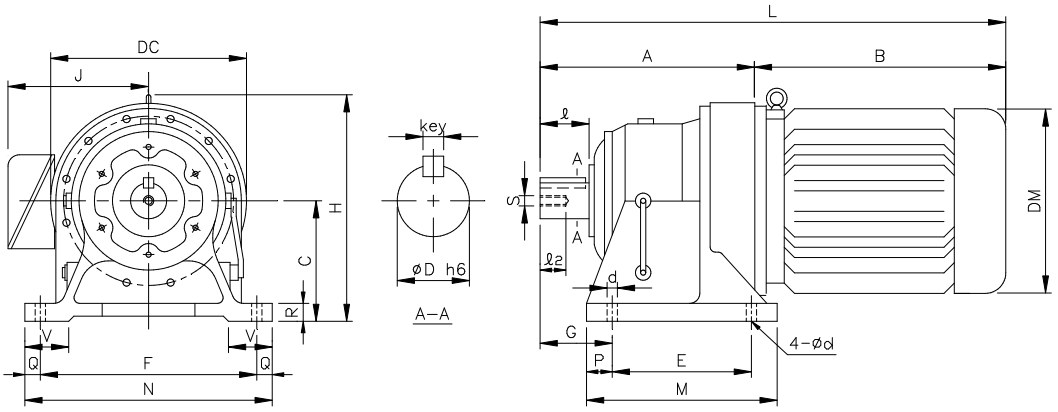
B13-MH ~ B14-MH

FRAME SIZE	Dim. in mm																	Dim. in mm					Wt
	A	B	C	DC	DM	E	F	G	H	J	L	M	N	P	Q	R	V	d	Output Shaft D	l	Key	s	l2	(kg)
B07-(1/8M)H	92	218	80	110	144	60	120	41	135	115	310	84	144	12	12	12	35	9	14	25	5 x 5 x 20	M6	12	8
B08-(1/8M)H	98	218			144					115	316													9
B08-(1/4M)H	98	218	80	110	144	60	120	47	135	115	316	84	144	12	12	12	35	9	18	30	6 x 6 x 25	M6	12	13
B08-(1/2M)H	98	238			162					125	336													17
B09-(1/8M)H	142	218			144					115	360													17
B09-(1/4M)H	142	218	100	150	144	90	150	60	175	115	360	130	180	15	15	17	40	11	28	35	8 x 7 x 32	M8	18	21
B09-(1/2M)H	142	238			162					125	380													26
B09-(1M)H	142	248			177					137	390													28
B10-(1/8M)H	156	204			144					115	360													19
B10-(1/4M)H	156	204			144					115	360													23
B10-(1/2M)H	156	224	100	150	162	90	150	60	175	125	380	135	180	15	15	17	40	11	28	35	8 x 7 x 32	M8	18	28
B10-(1M)H	156	234			177					137	390													30
B10-(2M)H	156	270			200					150	426													39
B10-(3M)H	156	301			219					173	457													48
B11-(1/2M)H	186	244			162					125	430													39
B11-(1M)H	186	254			177					137	440													41
B11-(2M)H	186	287	120	204	200	115	190	82	222	150	473	155	230	20	20	21	55	14	38	55	10 x 8 x 50	M10	18	50
B11-(3M)H	186	319			219					173	505													59
B11-(5M)H	186	349			238					182	535													71
B12-(1/2M)H	186	244			162					125	430													41
B12-(1M)H	186	254			177					137	440													43
B12-(2M)H	186	287	140	204	200	115	190	82	242	150	473	155	230	20	20	21	55	14	38	55	10 x 8 x 50	M10	18	52
B12-(3M)H	186	319			219					173	505													61
B12-(5M)H	186	349			238					182	535													73
B13-(1M)H	240	250			177					137	490													60
B13-(2M)H	240	290			200					150	530													69
B13-(3M)H	240	320	150	230	219	145	290	100	265	173	560	195	330	25	20	27	65	18	50	70	14 x 9 x 56	M10	18	78
B13-(5M)H	240	350			238					182	590													90
B13-(8M)H	240	395			273					218	635													108
B13-(10M)H	240	435			273					218	675													118
B14-(1M)H	260	250			177					137	510													62
B14-(2M)H	260	290			200					150	550													71
B14-(3M)H	260	320	150	230	219	145	290	120	265	173	580	195	330	25	20	27	65	18	50	90	14 x 9 x 80	M10	18	80
B14-(5M)H	260	350			238					182	610													92
B14-(8M)H	260	395			273					218	655													110
B14-(10M)H	260	435			273					218	695													120

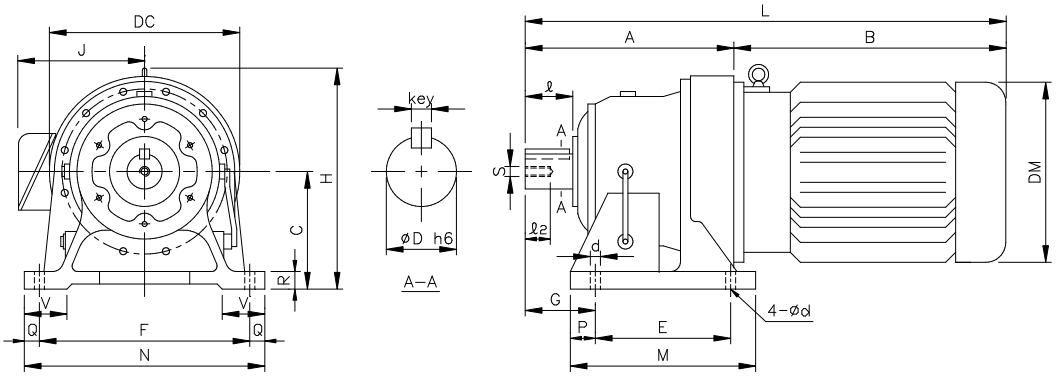
INTEGRAL GEARMOTOR - MH

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

INCH SHAFT - SINGLE STAGE



B15-MH ~ B18-MH



B19-MH

Dim. in mm | Dim. in inch

FRAME SIZE	A	B	C	DC	DM	E	F	G	H	J	L	M	N	P	Q	R	V	d	Output Shaft D	Output Shaft l	Output Shaft Key	Output Shaft s	Output Shaft l2	Wt (lb)
B15-(2M)H	260	290			220					150	550													159
B15-(3M)H	260	320			219					173	580													179
B15-(5M)H	260	350	160	230	238	145	290	120	275	182	610	195	330	25	20	27	70	18	1.875	3.54	1/2 x 1/2 x 2.95	M10	18	205
B15-(8M)H	260	395			273					218	655													245
B15-(10M)H	260	435			273					218	695													269
B15-(15M)H	260	460			334					256	720													366
B16-(2M)H	308	292			200					150	600													243
B16-(3M)H	308	322			219					173	630													265
B16-(5M)H	308	352			238					182	660													291
B16-(8M)H	308	397	160	318	273	150	370	139	319	218	705	238	410	44	20	30	75	18	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	331
B16-(10M)H	308	437			273					218	745													357
B16-(15M)H	308	462			334					256	770													452
B16-(20M)H	308	507			334					256	815													507
B17-(3M)H	352	323			219					173	675													359
B17-(5M)H	352	353			238					182	705													381
B17-(8M)H	352	398			273					218	750													419
B17-(10M)H	352	436	200	362	273	275	380	125	381	218	788	335	430	30	25	32	80	22	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	448
B17-(15M)H	352	508			334					256	860													540
B17-(20M)H	352	553			334					256	905													591
B17-(25M)H	352	573			382					301	925													739
B17-(30M)H	352	573			382					301	925													739
B18-(5M)H	389	356			238					182	745													470
B18-(8M)H	389	401			273					218	790													507
B18-(10M)H	389	439			273					218	828													536
B18-(15M)H	389	511	220	390	334	320	420	145	415	256	900	380	470	30	25	33	85	22	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	624
B18-(20M)H	389	556			334					256	945													679
B18-(25M)H	389	576			382					301	965													794
B18-(30M)H	389	576			382					301	965													794
B19-(8M)H	465	395			273					218	860													679
B19-(10M)H	465	435			273					218	900													705
B19-(15M)H	465	505	250	451	334	380	480	170	476	256	970	440	530	30	25	40	90	26	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	794
B19-(20M)H	465	550			334					256	1015													888
B19-(25M)H	465	570			382					301	1035													985
B19-(30M)H	465	570			382					301	1035													985

INTEGRAL GEARMOTOR - MH

1 inch = 25.4 mm
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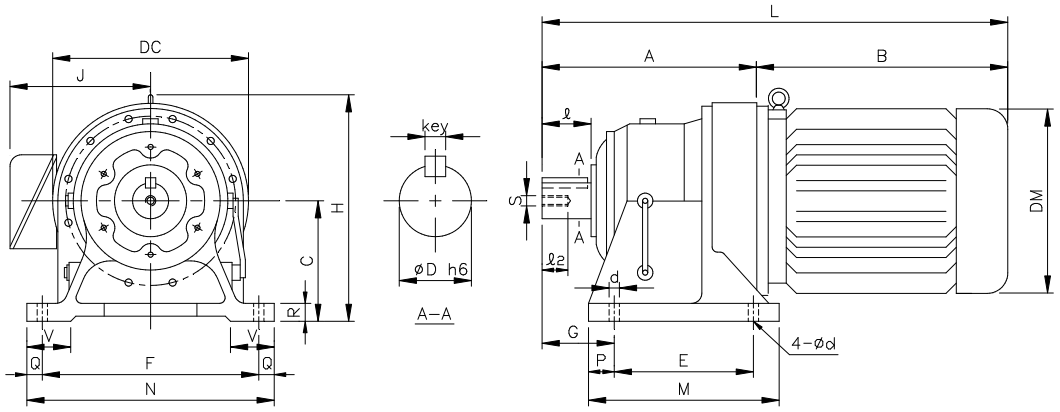
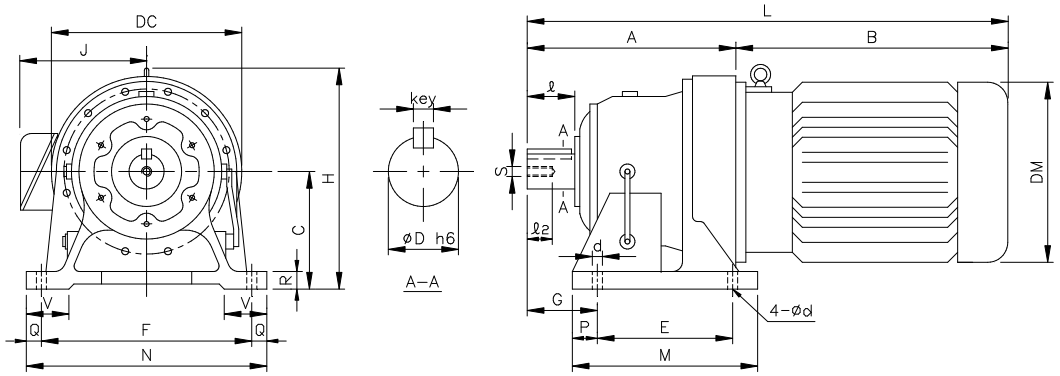
METRIC SHAFT - SINGLE STAGE



B15-MH ~ B18-MH



B19-MH

Dim. in mm

Dim. in mm

FRAME SIZE	A	B	C	DC	DM	E	F	G	H	J	L	M	N	P	Q	R	V	d	Output Shaft D	Output Shaft l	Output Shaft Key	Output Shaft s	Output Shaft l2	Wt (kg)
B15-(2M)H	260	290			220					150	550													72
B15-(3M)H	260	320			219					173	580													81
B15-(5M)H	260	350	160	230	238	145	290	120	275	182	610	195	330	25	20	27	70	18	50	90	14 x 9 x 80	M10	18	93
B15-(8M)H	260	395			273					218	655													111
B15-(10M)H	260	435			273					218	695													122
B15-(15M)H	260	460			334					256	720													166
B16-(2M)H	308	292			200					150	600													110
B16-(3M)H	308	322			219					173	630													120
B16-(5M)H	308	352			238					182	660													132
B16-(8M)H	308	397	160	318	273	150	370	139	319	218	705	238	410	44	20	30	75	18	60	90	18 x 11 x 80	M10	18	150
B16-(10M)H	308	437			273					218	745													162
B16-(15M)H	308	462			334					256	770													205
B16-(20M)H	308	507			334					256	815													230
B17-(3M)H	352	323			219					173	675													163
B17-(5M)H	352	353			238					182	705													173
B17-(8M)H	352	398			273					218	750													190
B17-(10M)H	352	436	200	362	273	275	380	125	381	218	788	335	430	30	25	32	80	22	70	90	20 x 12 x 80	M12	24	203
B17-(15M)H	352	508			334					256	860													245
B17-(20M)H	352	553			334					256	905													268
B17-(25M)H	352	573			382					301	925													335
B17-(30M)H	352	573			382					301	925													335
B18-(5M)H	389	356			238					182	745													213
B18-(8M)H	389	401			273					218	790													230
B18-(10M)H	389	439			273					218	828													243
B18-(15M)H	389	511	220	390	334	320	420	145	415	256	900	380	470	30	25	33	85	22	80	110	22 x 14 x 100	M12	24	283
B18-(20M)H	389	556			334					256	945													308
B18-(25M)H	389	576			382					301	965													360
B18-(30M)H	389	576			382					301	965													360
B19-(8M)H	465	395			273					218	860													308
B19-(10M)H	465	435			273					218	900													320
B19-(15M)H	465	505	250	451	334	380	480	170	476	256	970	440	530	30	25	40	90	26	95	135	25 x 14 x 125	M20	34	360
B19-(20M)H	465	550			334					256	1015													403
B19-(25M)H	465	570			382					301	1035													447
B19-(30M)H	465	570			382					301	1035													447

INTEGRAL GEARMOTOR - MH

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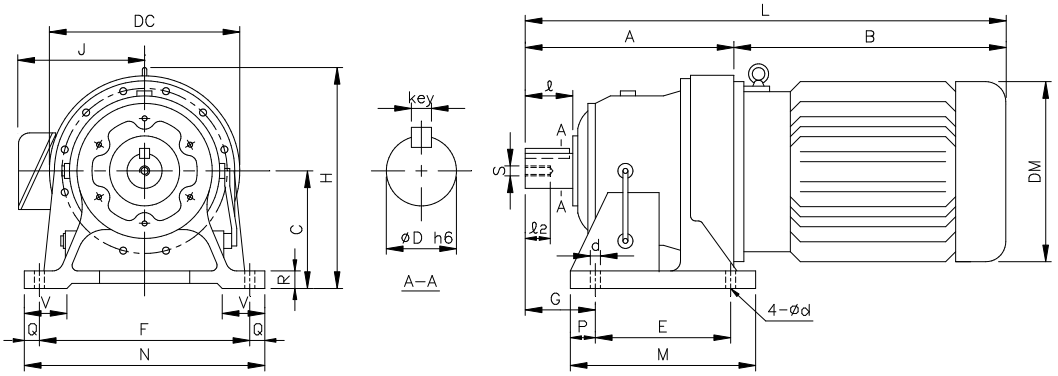
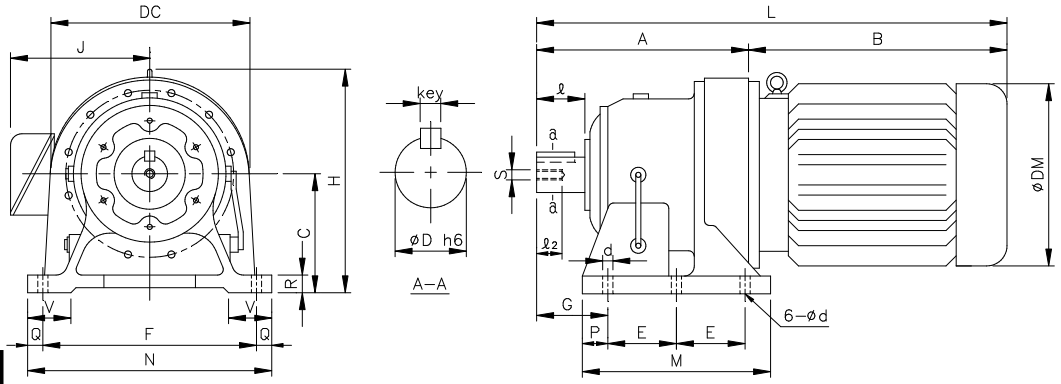
INCH SHAFT - SINGLE STAGE



B20-MH ~ B23-MH



A90-MH ~ A92-MH
(w/ 6 Mounting Holes)

Dim. in mm — Dim. in inch

FRAME SIZE	A	B	C	DC	DM	E	F	G	H	J	L	M	N	P	Q	R	V	d	Output Shaft D	Output Shaft l	Output Shaft Key	Output Shaft s	Output Shaft l2	Wt (lb)
B20-(15M)H	502	506			334					256	1008													772
B20-(20M)H	502	551			334					256	1053													816
B20-(25M)H	502	571			382					301	1073													970
B20-(30M)H	502	571	250	471	382	360	440	215	485	301	1073	440	530	40	45	40	100	26	3.875	6.50	1 x 1 x 6.50	M20	34	970
B20-(40M)H	502	613			382					301	1115													992
B20-(50M)H	502	673			420					334	1175													1113
B20-(60M)H	502	673			420					334	1175													1113
B21-(15M)H	526	504			334					256	1030													948
B21-(20M)H	526	549			334					256	1075													992
B21-(25M)H	526	570			382					301	1096													1135
B21-(30M)H	526	570	265	507	382	395	480	210	518	301	1096	475	580	40	50	42	110	26	4.250	6.50	1 x 1 x 6.50	M20	34	1135
B21-(40M)H	526	609			382					301	1135													1168
B21-(50M)H	526	669			420					334	1195													1290
B21-(60M)H	526	669			420					334	1195													1290
B21-(75M)H	526	709			458					382	1235													1499
B22-(25M)H	566	570			382					301	1136													1323
B22-(30M)H	566	570			382					301	1136													1323
B22-(40M)H	566	609	280	549	382	420	540	230	554	301	1175	520	620	50	40	42	115	33	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	1356
B22-(50M)H	566	669			420					334	1235													1477
B22-(60M)H	566	669			420					334	1235													1477
B22-(75M)H	566	709			458					382	1275													1653
*B23-(206M)H	628	562			334					256	1190													1499
*B23-(256M)H	628	602			382					301	1230													1539
*B23-(306M)H	628	602			382					301	1230													1543
*B23-(406M)H	628	662	300	591	382	460	580	260	595	301	1290	560	670	50	45	45	120	33	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1704
*B23-(506M)H	628	662			420					334	1290													1709
*B23-(606M)H	628	697			420					334	1325													1841
*B23-(756M)H	628	777			458					382	1405													1962

*** denotes 6-pole motor (i.e. 206M = 6-pole 20 hp motor, 606M = 6-pole 60 hp motor)**

INTEGRAL GEARMOTOR - MH

1 inch = 25.4 mm
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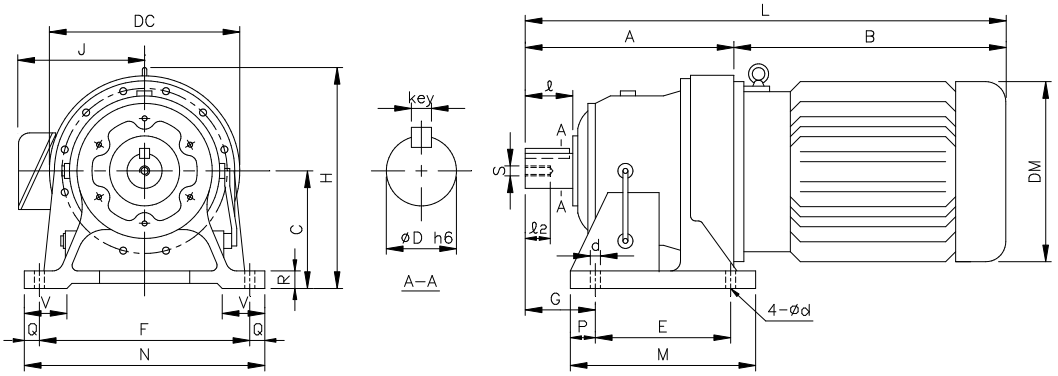
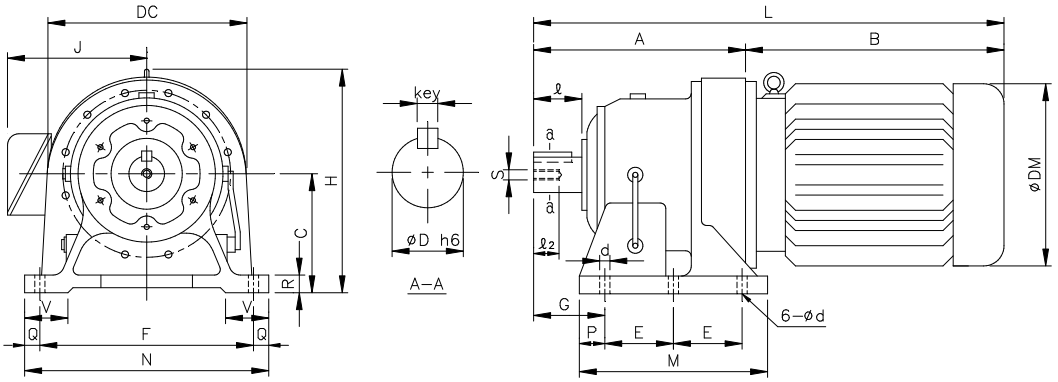
METRIC SHAFT - SINGLE STAGE



B20-MH ~ B23-MH



A90-MH ~ A92-MH
(w/ 6 Mounting Holes)

Dim. in mm — Dim. in mm

FRAME SIZE	A	B	C	DC	DM	E	F	G	H	J	L	M	N	P	Q	R	V	d	Output Shaft D	Output Shaft l	Output Shaft Key	Output Shaft s	Output Shaft l2	Wt (kg)
B20-(15M)H	502	506			334					256	1008													350
B20-(20M)H	502	551			334					256	1053													370
B20-(25M)H	502	571			382					301	1073													440
B20-(30M)H	502	571	250	471	382	360	440	215	485	301	1073	440	530	40	45	40	100	26	100	165	28 x 16 x 165	M20	34	440
B20-(40M)H	502	613			382					301	1115													450
B20-(50M)H	502	673			420					334	1175													505
B20-(60M)H	502	673			420					334	1175													505
B21-(15M)H	526	504			334					256	1030													430
B21-(20M)H	526	549			334					256	1075													450
B21-(25M)H	526	570			382					301	1096													515
B21-(30M)H	526	570	265	507	382	395	480	210	518	301	1096	475	580	40	50	42	110	26	110	165	28 x 16 x 165	M20	34	515
B21-(40M)H	526	609			382					301	1135													530
B21-(50M)H	526	669			420					334	1195													585
B21-(60M)H	526	669			420					334	1195													585
B21-(75M)H	526	709			458					382	1235													680
B22-(25M)H	566	570			382					301	1136													600
B22-(30M)H	566	570			382					301	1136													600
B22-(40M)H	566	609	280	549	382	420	540	230	554	301	1175	520	620	50	40	42	115	33	120	165	32 x 18 x 165	M20	34	615
B22-(50M)H	566	669			420					334	1235													670
B22-(60M)H	566	669			420					334	1235													670
B22-(75M)H	566	709			458					382	1275													750
*B23-(206M)H	628	562			334					256	1190													680
*B23-(256M)H	628	602			382					301	1230													698
*B23-(306M)H	628	602			382					301	1230													700
*B23-(406M)H	628	662	300	591	382	460	580	260	595	301	1290	560	670	50	45	45	120	33	130	200	32 x 18 x 200	M24	41	773
*B23-(506M)H	628	662			420					334	1290													775
*B23-(606M)H	628	697			420					334	1325													835
*B23-(756M)H	628	777			458					382	1405													890

*** denotes 6-pole motor (i.e. 206M = 6-pole 20 hp motor, 606M = 6-pole 60 hp motor)**

INTEGRAL GEARMOTOR - MH

1 inch = 25.4 mm
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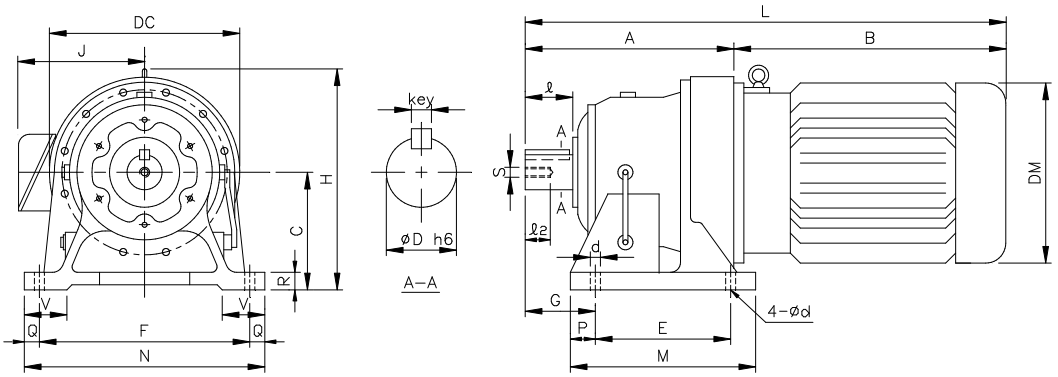
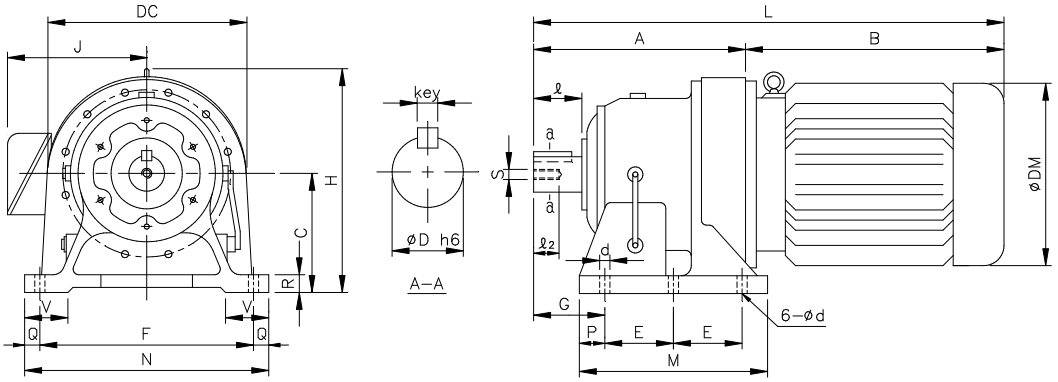
INCH SHAFT - SINGLE STAGE



B24-MH ~ B26-MH



A90-MH ~ A92-MH
(w/ 6 Mounting Holes)

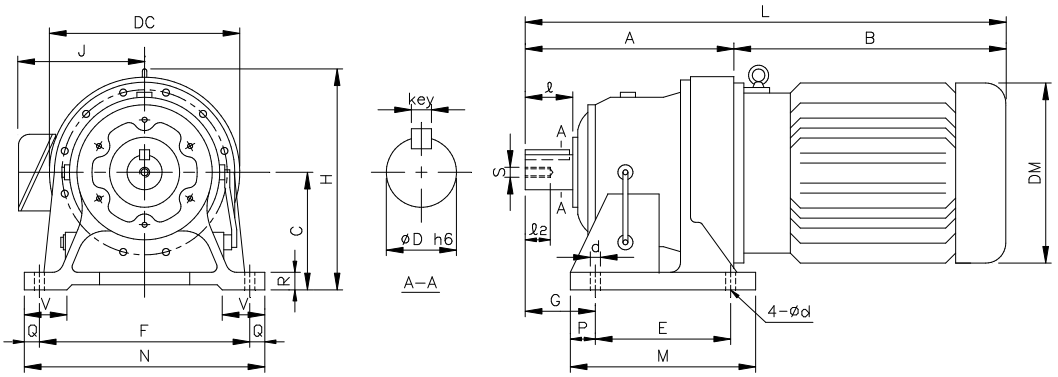
FRAME SIZE	Dim. in mm																	Dim. in inch					Wt
	A	B	C	DC	DM	E	F	G	H	J	L	M	N	P	Q	R	V	d	Output Shaft D	l	Key	s	l2	(lb)
*B24-(206M)H	657	563			334					256	1220													1775
*B24-(256M)H	657	603			382					301	1260													1808
*B24-(306M)H	657	603			382					301	1260													1808
*B24-(406M)H	657	663	335	637	382	480	630	263	654	301	1320	580	720	50	45	45	128	39	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1973
*B24-(506M)H	657	663			420					334	1320													1973
*B24-(606M)H	657	698			420					334	1355													2116
*B24-(756M)H	657	778			458					382	1435													2222
*B25-(256M)H	775	485			382					301	1260													2535
*B25-(306M)H	775	485			382					301	1260													2542
*B25-(406M)H	775	550	375	703	382	520	670	320	726	301	1325	630	780	55	55	50	140	39	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	2701
*B25-(506M)H	775	550			420					334	1325													2707
*B25-(606M)H	775	587			420					334	1362													2822
*B25-(756M)H	775	675			458					382	1450													2976
*B26-(406M)H	892	668			382					301	1560													3225
*B26-(506M)H	892	668	400	772	420	590	770	390	786	334	1560	700	880	55	55	55	160	45	6.625	11.81	1.75 x 1.25 x 11.8	M30	49	3230
*B26-(606M)H	892	708			420					334	1600													3391
A90-(15M)H	570	474			316					235	1044													1036
A90-(20M)H	570	518			316					235	1088													1069
A90-(30M)H	570	620	290	505	364	240	590	215		300	1190	560	620	40	30	40	100	26	4.250	6.69	1 x 1 x 6.31	M20	34	1246
A90-(40M)H	570	681			418					300	1251													1323
A90-(50M)H	570	698			442					350	1268													1499
*A90-(506M)H	570	723			442					350	1293													1598
*A91-(206M)H	656	625			364					300	1281													1543
*A91-(306M)H	656	686			418					300	1342													1631
*A91-(406M)H	656	751	325	575	442	250	630	290		350	1407	600	690	50	30	40	105	26	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1797
*A91-(506M)H	656	751			442					350	1407													1896
*A91-(606M)H	656	918			485					350	1574													1962
*A91-(756M)H	656	1071			558					460	1727													2359
*A92-(306M)H	853	697			418					300	1550													2800
*A92-(406M)H	853	770			442					350	1623													2954
*A92-(506M)H	853	770	420	720	442	330	800	372		350	1623	810	880	75	40	50	143	39	5.500	9.84	1 1/4 x 7/8 x 9.66	M30	52	3042
*A92-(606M)H	853	925			485					350	1778													3131
*A92-(756M)H	853	1073			558					460	1926													3417

*** denotes 6-pole motor (i.e. 206M = 6-pole 20 hp motor, 606M = 6-pole 60 hp motor)**

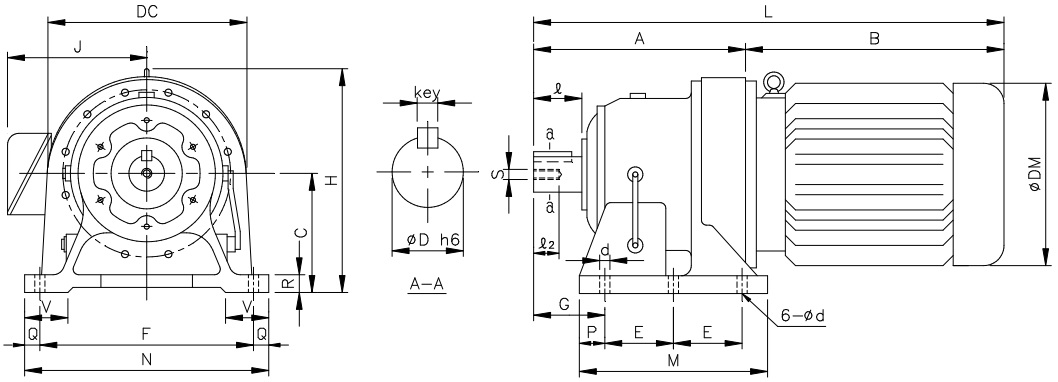
INTEGRAL GEARMOTOR - MH

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

METRIC SHAFT - SINGLE STAGE



B24-MH ~ B26-MH



A90-MH ~ A92-MH
(w/ 6 Mounting Holes)

Dim. in mm | Dim. in mm

FRAME SIZE	A	B	C	DC	DM	E	F	G	H	J	L	M	N	P	Q	R	V	d	Output Shaft D	Output Shaft l	Output Shaft Key	Output Shaft s	Output Shaft l2	Wt (kg)
*B24-(206M)H	657	563			334					256	1220													805
*B24-(256M)H	657	603			382					301	1260													820
*B24-(306M)H	657	603			382					301	1260													820
*B24-(406M)H	657	663	335	637	382	480	630	263	654	301	1320	580	720	50	45	45	128	39	140	200	36 x 20 x 200	M24	41	895
*B24-(506M)H	657	663			420					334	1320													895
*B24-(606M)H	657	698			420					334	1355													960
*B24-(756M)H	657	778			458					382	1435													1008
*B25-(256M)H	775	485			382					301	1260													1150
*B25-(306M)H	775	485			382					301	1260													1153
*B25-(406M)H	775	550	375	703	382	520	670	320	726	301	1325	630	780	55	55	50	140	39	160	240	40 x 22 x 240	M30	49	1225
*B25-(506M)H	775	550			420					334	1325													1228
*B25-(606M)H	775	587			420					334	1362													1280
*B25-(756M)H	775	675			458					382	1450													1350
*B26-(406M)H	892	668			382					301	1560													1463
*B26-(506M)H	892	668	400	772	420	590	770	390	786	334	1560	700	880	55	55	55	160	45	170	300	40 x 22 x 300	M30	49	1465
*B26-(606M)H	892	708			420					334	1600													1538
A90-(15M)H	570	474			316					235	1044													470
A90-(20M)H	570	518			316					235	1088													485
A90-(30M)H	570	620	290	505	364	240	590	215		300	1190	560	620	40	30	40	100	26	110	170	28 x 18 x155	M20	34	565
A90-(40M)H	570	681			418					300	1251													600
A90-(50M)H	570	698			442					350	1268													680
*A90-(506M)H	570	723			442					350	1293													725
*A91-(206M)H	656	625			364					300	1281													700
*A91-(306M)H	656	686			418					300	1342													740
*A91-(406M)H	656	751	325	575	442	250	630	290		350	1407	600	690	50	30	40	105	26	120	210	32 x 20 x195	M24	42	815
*A91-(506M)H	656	751			442					350	1407													860
*A91-(606M)H	656	918			485					350	1574													890
*A91-(756M)H	656	1071			558					460	1727													1070
*A92-(306M)H	853	697			418					300	1550													1270
*A92-(406M)H	853	770			442					350	1623													1340
*A92-(506M)H	853	770	420	720	442	330	800	372		350	1623	810	880	75	40	50	143	39	140	250	35 x 22 x 230	M30	52	1380
*A92-(606M)H	853	925			485					350	1778													1420
*A92-(756M)H	853	1073			558					460	1926													1550

*** denotes 6-pole motor (i.e. 206M = 6-pole 20 hp motor, 606M = 6-pole 60 hp motor)**

INTEGRAL GEARMOTOR - MH

1 inch = 25.4 mm
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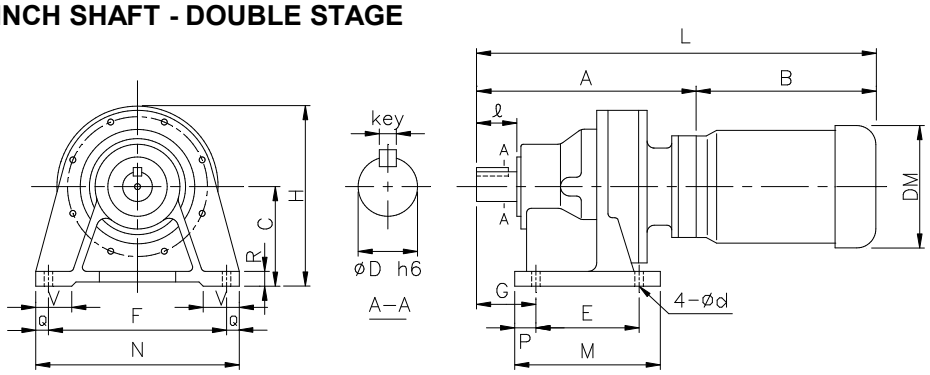
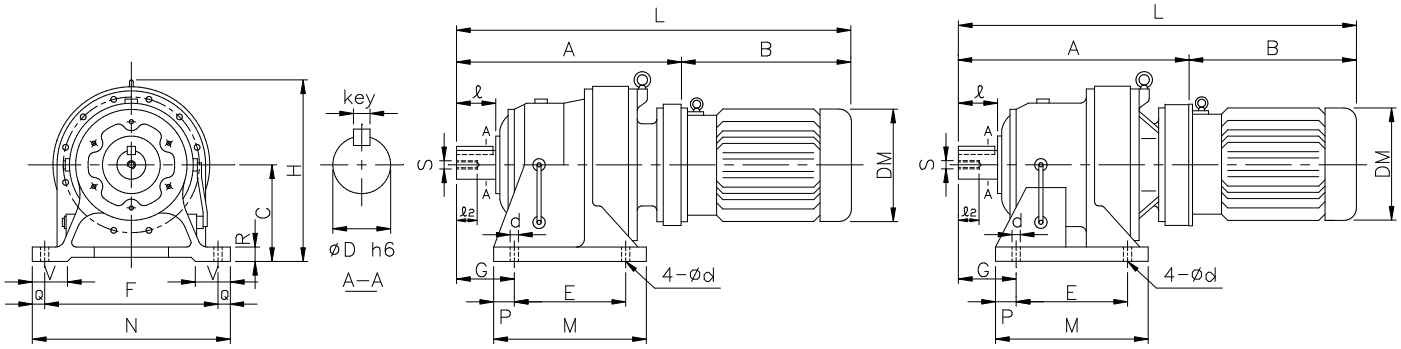
Contact factory for certified dimensions.

INCH SHAFT - DOUBLE STAGE



B0707-MH ~ B1109-MH



B1310-MH ~ B1813-MH

B1911-MH ~ B2013-MH

FRAME SIZE	Dim. in mm																	Dim. in inch					Wt
																		Output Shaft					
	A	B	C	DM	E	F	G	H	J	L	M	N	P	Q	R	V	d	D	l	Key	s	l2	(lb)
B0707-(1/8M)H	125	200	80	130	60	120	41	135	115	325	84	144	12	12	12	35	9	.500	0.98	1/8 x 1/8 x .79	M6	12	20
B0807-(1/8M)H	131	200	80	130	60	120	47	135	115	331	84	144	12	12	12	35	9	.750	1.18	3/16 x 3/16 x 1.06	M6	12	22
B0908-(1/8M)H	205	200	100	130	90	180	75	175	115	405	130	180	12	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	37
B0908-(1/4M)H	205	218		144					115	423													40
B1008-(1/8M)H	219	200		130					115	419													42
B1008-(1/4M)H	219	218	100	144	90	150	75	175	115	437	135	180	15	15	17	40	11	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	44
B1008-(1/2M)H	219	238		162					125	457													49
B1109-(1/8M)H	252	200		130					115	452													66
B1109-(1/4M)H	252	218	120	144	115	190	82	222	115	470	155	230	20	20	21	55	14	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	79
B1109-(1/2M)H	252	238		162					125	490													84
B1310-(1M)H	317	248	150	177	145	290	100	265	137	565	195	330	25	20	27	65	18	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	121
B1310-(2M)H	317	285		200					150	602													130
B1409-(1/4M)H	323	218		144					115	541													108
B1409-(1/2M)H	323	238	150	162	145	290	120	265	125	561	195	330	25	20	27	65	18	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	112
B1409-(1M)H	323	248		177					137	571													117
B1611-(3M)H	389	316	160	219	150	370	139	319	173	705	238	410	44	20	30	75	18	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	243
B1611-(5M)H	389	346		238					182	735													282
B1711-(3M)H	436	317	200	219	275	380	125	381	173	753	335	430	30	25	32	80	22	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	320
B1711-(5M)H	436	347		238					182	783													359
B1813-(3M)H	496	319		219					173	815													432
B1813-(5M)H	496	349	220	238	320	420	145	415	182	845	380	470	30	25	33	85	22	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	472
B1813-(8M)H	496	394		273					218	890													514
B1813-(10M)H	496	434		273					218	930													540
B1911-(1M)H	556	248		177					137	804													549
B1911-(2M)H	556	285	250	200	380	480	170	476	150	841	440	530	30	25	40	90	26	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	558
B1911-(3M)H	556	315		219					173	871													569
B1911-(5M)H	556	442		238					182	998													606
B1913-(3M)H	572	315		219					173	887													584
B1913-(5M)H	572	345	250	238	380	480	170	476	182	917	440	530	30	25	40	90	26	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	622
B1913-(8M)H	572	399		273					218	971													666
B1913-(10M)H	572	437		273					218	1009													694
B2011-(1M)H	597	248	250	177	360	440	215	485	137	845	440	530	40	45	40	100	26	3.875	6.50	1 x 1 x 6.50	M20	34	591
B2011-(2M)H	597	285		200					137	882													600
B2013-(2M)H	624	285		200					150	909													628
B2013-(3M)H	624	315	250	219	360	440	215	485	173	939	440	530	40	45	40	100	26	3.875	6.50	1 x 1 x 6.50	M20	34	635
B2013-(5M)H	624	345		238					182	969													675

INTEGRAL GEARMOTOR - MH

1 inch = 25.4 mm
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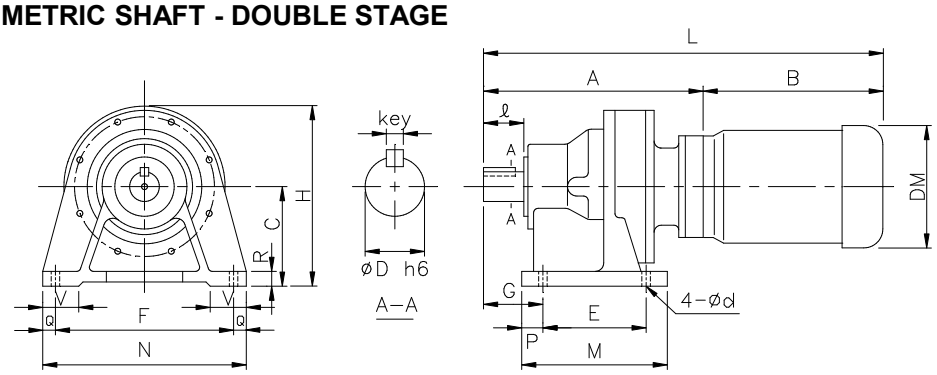
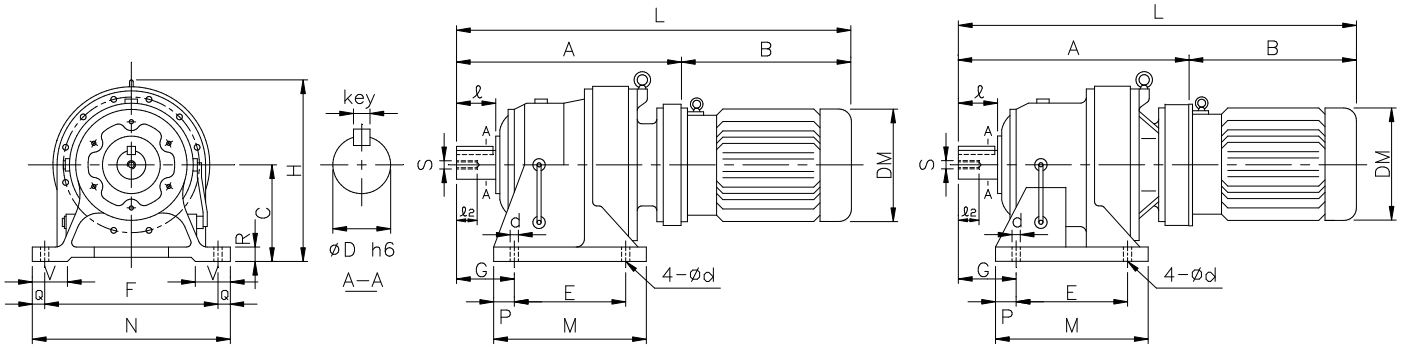
METRIC SHAFT - DOUBLE STAGE



B0707-MH ~ B1109-MH



B1310-MH ~ B1813-MH

B1911-MH ~ B2013-MH

FRAME SIZE	Dim. in mm																	Output Shaft					Wt
	A	B	C	DM	E	F	G	H	J	L	M	N	P	Q	R	V	d	D	l	Key	s	l2	(kg)
B0707-(1/8M)H	125	200	80	130	60	120	41	135	115	325	84	144	12	12	12	35	9	14	25	5 x 5 x 20	M6	12	9
B0807-(1/8M)H	131	200	80	130	60	120	47	135	115	331	84	144	12	12	12	35	9	18	30	6 x 6 x 25	M6	12	10
B0908-(1/8M)H	205	200	100	130	90	180	75	175	115	405	130	180	12	15	17	40	11	28	50	8 x 7 x 32	M8	18	17
B0908-(1/4M)H	205	218		144					115	423													18
B1008-(1/8M)H	219	200		130					115	419													19
B1008-(1/4M)H	219	218	100	144	90	150	75	175	115	437	135	180	15	15	17	40	11	28	50	8 x 7 x 32	M8	18	20
B1008-(1/2M)H	219	238		162					125	457													22
B1109-(1/8M)H	252	200		130					115	452													30
B1109-(1/4M)H	252	218	120	144	115	190	82	222	115	470	155	230	20	20	21	55	14	38	55	10 x 8 x 50	M10	18	36
B1109-(1/2M)H	252	238		162					125	490													38
B1310-(1M)H	317	248	150	177	145	290	100	265	137	565	195	330	25	20	27	65	18	50	70	14 x 9 x 56	M10	18	55
B1310-(2M)H	317	285		200					150	602													59
B1409-(1/4M)H	323	218		144					115	541													49
B1409-(1/2M)H	323	238	150	162	145	290	120	265	125	561	195	330	25	20	27	65	18	50	90	14 x 9 x 80	M10	18	51
B1409-(1M)H	323	248		177					137	571													53
B1611-(3M)H	389	316	160	219	150	370	139	319	173	705	238	410	44	20	30	75	18	60	90	18 x 11 x 80	M10	18	110
B1611-(5M)H	389	346		238					182	735													128
B1711-(3M)H	436	317	200	219	275	380	125	381	173	753	335	430	30	25	32	80	22	70	90	20 x 12 x 80	M12	24	145
B1711-(5M)H	436	347		238					182	783													163
B1813-(3M)H	496	319		219					173	815													196
B1813-(5M)H	496	349	220	238	320	420	145	415	182	845	380	470	30	25	33	85	22	80	110	22 x 14 x 100	M12	24	214
B1813-(8M)H	496	394		273					218	890													233
B1813-(10M)H	496	434		273					218	930													245
B1911-(1M)H	556	248		177					137	804													249
B1911-(2M)H	556	285	250	200	380	480	170	476	150	841	440	530	30	25	40	90	26	95	135	25 x 14 x 125	M20	34	253
B1911-(3M)H	556	315		219					173	871													258
B1911-(5M)H	556	442		238					182	998													275
B1913-(3M)H	572	315		219					173	887													265
B1913-(5M)H	572	345	250	238	380	480	170	476	182	917	440	530	30	25	40	90	26	95	135	25 x 14 x 125	M20	34	282
B1913-(8M)H	572	399		273					218	971													302
B1913-(10M)H	572	437		273					218	1009													315
B2011-(1M)H	597	248	250	177	360	440	215	485	137	845	440	530	40	45	40	100	26	100	165	28 x 16 x 165	M20	34	268
B2011-(2M)H	597	285		200					137	882													272
B2013-(2M)H	624	285		200					150	909													285
B2013-(3M)H	624	315	250	219	360	440	215	485	173	939	440	530	40	45	40	100	26	100	165	28 x 16 x 165	M20	34	288
B2013-(5M)H	624	345		238					182	969													306

INTEGRAL GEARMOTOR - MH

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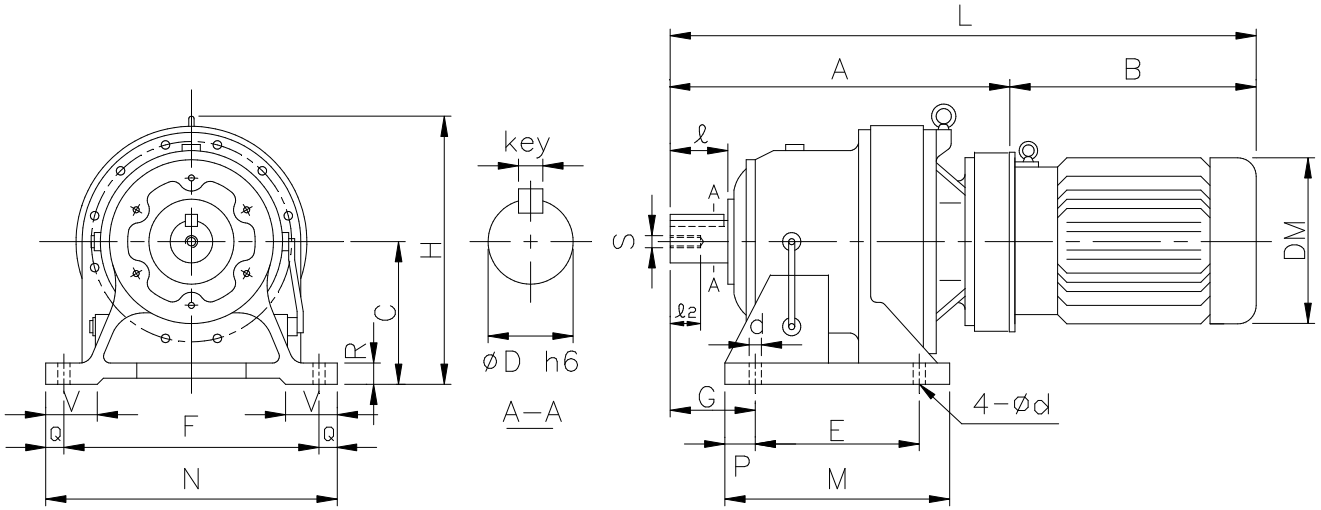
INCH SHAFT - DOUBLE STAGE



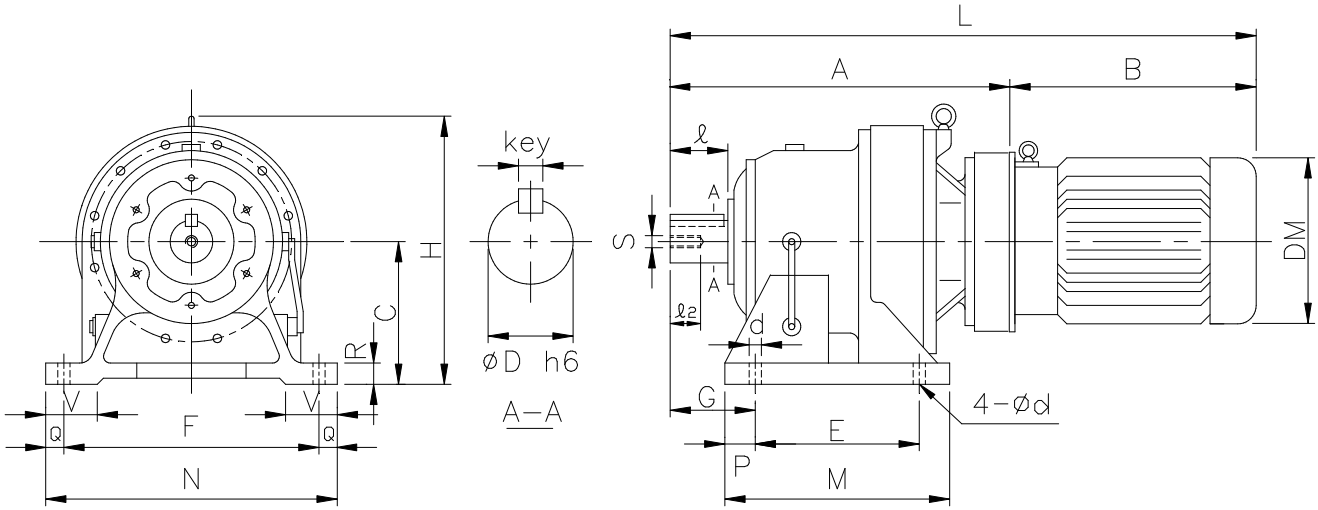
B2013-MH ~ B2519-MH

FRAME SIZE	Dim. in mm																Dim. in inch					Wt
																	Output Shaft					
	A	B	C	DM	E	F	G	H	J	L	M	N	P	Q	R	V	d	D	l	Key	s	l2	(lb)
B2013-(8M)H	624	389	250	273	360	440	215	485	218	1013	440	530	40	45	40	100	26	3.875	6.50	1 x 1 x 6.50	M20	34	716
B2013-(10M)H	624	427		273					218	1051													743
B2113-(2M)H	650	285		200					150	935													805
B2113-(3M)H	650	315		219					173	965													811
B2113-(5M)H	650	345	265	238	395	480	210	518	182	995	475	580	40	50	42	110	26	4.250	6.50	1 x 1 x 6.50	M20	34	853
B2113-(8M)H	650	389		273					218	1039													893
B2113-(10M)H	650	427		273					218	1077													922
B2116-(10M)H	675	427	265	273	395	480	210	518	218	1102	475	580	40	50	42	110	26	4.250	6.50	1 x 1 x 6.50	M20	34	959
B2116-(15M)H	675	498		334					256	1173													1032
B2213-(2M)H	692	285		200					150	977													970
B2213-(3M)H	692	315		219					173	1007													981
B2213-(5M)H	692	345	280	238	420	540	230	554	182	1037	520	620	50	40	42	115	33	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	1014
B2213-(8M)H	692	389		273					218	1081													1058
B2213-(10M)H	692	427		273					218	1119													1091
B2217-(8M)H	735	389		273					218	1124													1157
B2217-(10M)H	735	427	280	273	420	540	230	554	218	1162	520	620	50	40	42	115	33	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	1186
B2217-(15M)H	735	498		334					256	1233													1254
B2217-(20M)H	735	542		334					256	1277													1296
B2316-(3M)H	778	317		219					173	1095													1237
B2316-(5M)H	778	347		238					182	1125													1279
B2316-(8M)H	778	392	300	273	460	580	260	595	218	1170	560	670	50	45	45	120	33	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1314
B2316-(10M)H	778	430		273					218	1208													1340
B2316-(15M)H	778	502		334					256	1280													1411
B2316-(20M)H	778	522		334					256	1300													1455
B2318-(30M)H	800	563	300	382	460	580	260	595	301	1363	560	670	50	45	45	120	33	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1675
B2416-(3M)H	816	319		219					173	1135													1477
B2416-(5M)H	816	349		238					182	1165													1510
B2416-(8M)H	816	394	335	273	480	630	263	654	218	1210	580	720	50	45	45	128	39	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1554
B2416-(10M)H	816	432		273					218	1248													1583
B2416-(15M)H	816	504		334					256	1320													1653
B2416-(20M)H	816	549		334					256	1365													1698
B2418-(20M)H	837	543		334					256	1380													1764
B2418-(25M)H	837	563	335	382	480	630	263	654	301	1400	580	720	50	45	45	128	39	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1896
B2418-(30M)H	837	563		382					301	1400													1896
B2517-(5M)H	956	349		238					182	1305													2293
B2517-(8M)H	956	394		273					218	1350													2337
B2517-(10M)H	956	429		273					218	1385													2359
B2517-(15M)H	956	499	375	334	520	670	320	726	256	1455	630	780	55	55	50	140	39	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	2447
B2517-(20M)H	956	544		334					256	1500													2469
B2517-(25M)H	956	564		382					301	1520													2623
B2517-(30M)H	956	564		382					301	1520													2634
B2519-(25M)H	978	562		382					301	1540													2789
B2519-(30M)H	978	562	375	382	520	670	320	726	301	1540	630	780	55	55	50	140	39	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	2800
B2519-(40M)H	978	562		382					334	1540													2822

INTEGRAL GEARMOTOR - MH

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

METRIC SHAFT - DOUBLE STAGE



B2013-MH ~ B2519-MH

FRAME SIZE	Dim. in mm																Dim. in mm					Wt
																	Output Shaft					
	A	B	C	DM	E	F	G	H	J	L	M	N	P	Q	R	V	d	D	l	Key	s	l2	(kg)
B2013-(8M)H	624	389	250	273	360	440	215	485	218	1013	440	530	40	45	40	100	26	100	165	28 x 16 x 165	M20	34	325
B2013-(10M)H	624	427		273					218	1051													337
B2113-(2M)H	650	285		200					150	935													365
B2113-(3M)H	650	315		219					173	965													368
B2113-(5M)H	650	345	265	238	395	480	210	518	182	995	475	580	40	50	42	110	26	110	165	28 x 16 x 165	M20	34	387
B2113-(8M)H	650	389		273					218	1039													405
B2113-(10M)H	650	427		273					218	1077													418
B2116-(10M)H	675	427	265	273	395	480	210	518	218	1102	475	580	40	50	42	110	26	110	165	28 x 16 x 165	M20	34	435
B2116-(15M)H	675	498		334					256	1173													468
B2213-(2M)H	692	285		200					150	977													440
B2213-(3M)H	692	315		219					173	1007													445
B2213-(5M)H	692	345	280	238	420	540	230	554	182	1037	520	620	50	40	42	115	33	120	165	32 x 18 x 165	M20	34	460
B2213-(8M)H	692	389		273					218	1081													480
B2213-(10M)H	692	427		273					218	1119													495
B2217-(8M)H	735	389		273					218	1124													525
B2217-(10M)H	735	427	280	273	420	540	230	554	218	1162	520	620	50	40	42	115	33	120	165	32 x 18 x 165	M20	34	538
B2217-(15M)H	735	498		334					256	1233													569
B2217-(20M)H	735	542		334					256	1277													588
B2316-(3M)H	778	317		219					173	1095													561
B2316-(5M)H	778	347		238					182	1125													580
B2316-(8M)H	778	392	300	273	460	580	260	595	218	1170	560	670	50	45	45	120	33	130	200	32 x 18 x 200	M24	41	596
B2316-(10M)H	778	430		273					218	1208													608
B2316-(15M)H	778	502		334					256	1280													640
B2316-(20M)H	778	522		334					256	1300													660
B2318-(30M)H	800	563	300	382	460	580	260	595	301	1363	560	670	50	45	45	120	33	130	200	32 x 18 x 200	M24	41	760
B2416-(3M)H	816	319		219					173	1135													670
B2416-(5M)H	816	349		238					182	1165													685
B2416-(8M)H	816	394	335	273	480	630	263	654	218	1210	580	720	50	45	45	128	39	140	200	36 x 20 x 200	M24	41	705
B2416-(10M)H	816	432		273					218	1248													718
B2416-(15M)H	816	504		334					256	1320													750
B2416-(20M)H	816	549		334					256	1365													770
B2418-(20M)H	837	543		334					256	1380													800
B2418-(25M)H	837	563	335	382	480	630	263	654	301	1400	580	720	50	45	45	128	39	140	200	36 x 20 x 200	M24	41	860
B2418-(30M)H	837	563		382					301	1400													860
B2517-(5M)H	956	349		238					182	1305													1040
B2517-(8M)H	956	394		273					218	1350													1060
B2517-(10M)H	956	429		273					218	1385													1070
B2517-(15M)H	956	499	375	334	520	670	320	726	256	1455	630	780	55	55	50	140	39	160	240	40 x 22 x 240	M30	49	1110
B2517-(20M)H	956	544		334					256	1500													1120
B2517-(25M)H	956	564		382					301	1520													1190
B2517-(30M)H	956	564		382					301	1520													1195
B2519-(25M)H	978	562		382					301	1540													1265
B2519-(30M)H	978	562	375	382	520	670	320	726	301	1540	630	780	55	55	50	140	39	160	240	40 x 22 x 240	M30	49	1270
B2519-(40M)H	978	562		382					334	1540													1280

INTEGRAL GEARMOTOR - MH

1 inch = 25.4 mm
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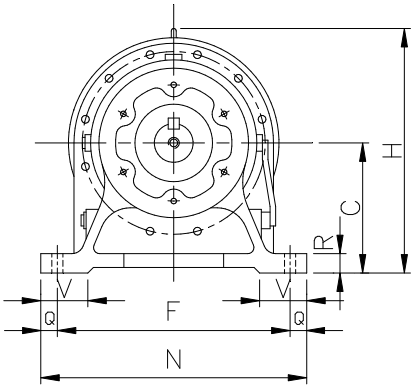
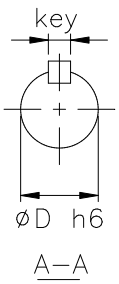
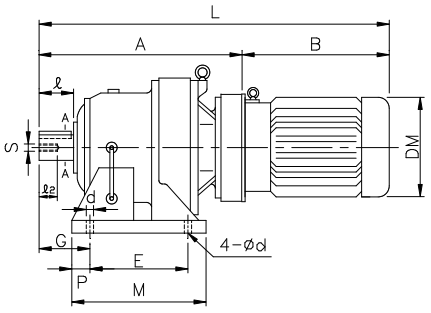
Contact factory for certified dimensions.

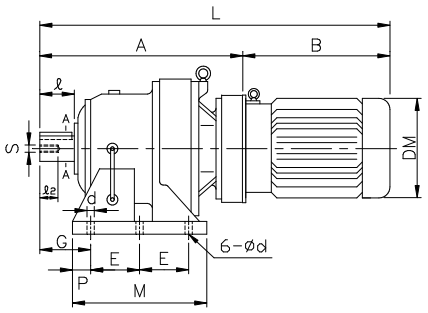
INCH SHAFT - DOUBLE STAGE







B2619-MH



B2719-MH
A904-MH ~ A939-MH
(w/ 6 Mounting Holes)

	Dim. in mm																Dim. in inch					
FRAME SIZE	A	B	C	DM	E	F	G	H	J	L	M	N	P	Q	R	V	d	Output Shaft D	Output Shaft l	Output Shaft Key	Output Shaft s	Output Shaft l2	Wt (lb)
B2619-(8M)H	1088	392		273					218	1480													3053
B2619-(10M)H	1088	432		273					218	1520													3075
B2619-(15M)H	1088	502		334					256	1590													3153
B2619-(20M)H	1088	546	400	334	590	770	390	786	256	1634	700	880	55	55	55	160	45	6.625	11.81	1 3/4 x 1 1/4 x 11.8	M30	49	3197
B2619-(25M)H	1088	565		382					301	1653													3351
B2619-(30M)H	1088	565		382					301	1653													3351
B2619-(40M)H	1088	607		382					301	1695													3384
B2619-(50M)H	1088	667		420					334	1755													3461
B2719-(8M)H	1349	391		273					218	1740													5556
B2719-(10M)H	1349	429		273					218	1778													5578
B2719-(15M)H	1349	501		334					256	1850													5666
B2719-(20M)H	1349	546	540	334	420	1050	485	1033	256	1895	1040	1160	100	55	60	200	45	7.000	13.0	1 3/4 x 1 1/4 x 13	M30	52	5688
B2719-(25M)H	1349	566		382					301	1915													5864
B2719-(30M)H	1349	566		382					301	1915													5864
B2719-(40M)H	1349	601		382					301	1950													5886
B2719-(50M)H	1349	661		420					334	2010													5974
A904-(2M)H	682	301		199					150	983													915
A904-(3M)H	682	331	290	225	240	560	215	556	173	1013	560	620	40	30	40	100	26	4.250	6.69	1 x 1 x 6.31	M20	34	937
A904-(5M)H	682	325		230					182	1007													959
A904-(8M)H	682	357		275					218	1039													992
A906-(8M)H	705	346		275					218	1051													1047
A906-(10M)H	705	384	290	275	240	560	215	556	218	1089	560	620	40	30	40	100	26	4.250	6.69	1 x 1 x 6.31	M20	34	1080
A906-(15M)H	705	462		316					256	1167													1135
A916-(3M)H	805	331		225					173	1136													1290
A916-(5M)H	805	335	325	230	250	630	290	625	182	1140	600	690	50	30	40	105	26	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1312
A916-(8M)H	805	346		275					218	1151													1345
A916-(10M)H	805	384		275					218	1189													1378
A917-(10M)H	812	401		275					218	1213													1433
A917-(15M)H	812	462	325	316	250	630	290	625	256	1274	600	690	50	30	40	105	26	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1488
A917-(20M)H	812	506		316					256	1318													1532
A928-(5M)H	1020	337		230					182	1357													2535
A928-(8M)H	1020	363		275					218	1383													2579
A928-(10M)H	1020	401	420	275	330	800	372	800	218	1421	810	880	75	40	50	143	39	5.500	9.84	1 1/4 x 7/8 x 9.66	M30	52	2623
A928-(15M)H	1020	467		316					256	1487													2668
A928-(20M)H	1020	511		316					256	1531													2712
A928-(30M)H	1020	602		364					301	1622													2866
A939-(8M)H	1349	373		275					218	1722													5578
A939-(10M)H	1349	411		275					218	1760													5600
A939-(15M)H	1349	476	540	316	420	1050	485	1045	256	1829	1040	1160	100	55	60	200	45	7.000	13	1 3/4 x 1 1/4 x 13	M30	52	5666
A939-(20M)H	1349	518		316					256	1867													5688
A939-(30M)H	1349	602		364					301	1951													5864
A939-(40M)H	1349	681		418					301	2030													5952

INTEGRAL GEARMOTOR - MH

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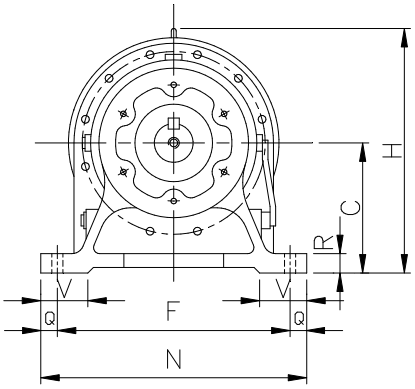
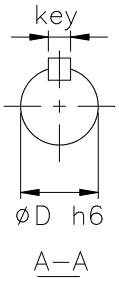
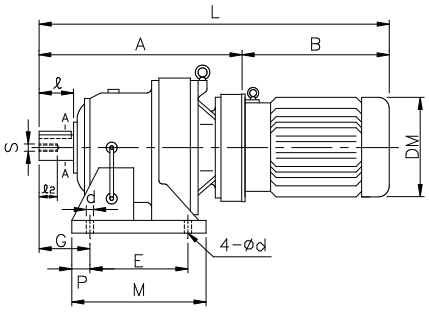
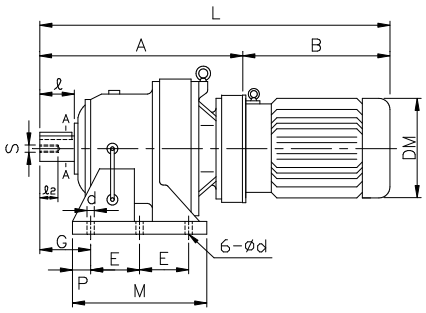
METRIC SHAFT - DOUBLE STAGE







B2619-MH



B2719-MH
A904-MH ~ A939-MH
(w/ 6 Mounting Holes)

FRAME SIZE	Dim. in mm																Output Shaft					Wt
	A	B	C	DM	E	F	G	H	J	L	M	N	P	Q	R	V	d	D	l	Key	s	l2	(kg)
B2619-(8M)H	1088	392		273					218	1480													1385
B2619-(10M)H	1088	432		273					218	1520													1395
B2619-(15M)H	1088	502		334					256	1590													1430
B2619-(20M)H	1088	546	400	334	590	770	390	786	256	1634	700	880	55	55	55	160	45	170	300	40 x 22 x 300	M30	49	1450
B2619-(25M)H	1088	565		382					301	1653													1520
B2619-(30M)H	1088	565		382					301	1653													1520
B2619-(40M)H	1088	607		382					301	1695													1535
B2619-(50M)H	1088	667		420					334	1755													1570
B2719-(8M)H	1349	391		273					218	1740													2520
B2719-(10M)H	1349	429		273					218	1778													2530
B2719-(15M)H	1349	501		334					256	1850													2570
B2719-(20M)H	1349	546	540	334	420	1050	485	1033	256	1895	1040	1160	100	55	60	200	45	180	330	45 x 25 x 330	M30	52	2580
B2719-(25M)H	1349	566		382					301	1915													2660
B2719-(30M)H	1349	566		382					301	1915													2660
B2719-(40M)H	1349	601		382					301	1950													2670
B2719-(50M)H	1349	661		420					334	2010													2710
A904-(2M)H	682	301		199					150	983													415
A904-(3M)H	682	331	290	225	240	560	215	556	173	1013	560	620	40	30	40	100	26	110	170	28 x 18 x155	M20	34	425
A904-(5M)H	682	325		230					182	1007													435
A904-(8M)H	682	357		275					218	1039													450
A906-(8M)H	705	346		275					218	1051													475
A906-(10M)H	705	384	290	275	240	560	215	556	218	1089	560	620	40	30	40	100	26	110	170	28 x 18 x155	M20	34	490
A906-(15M)H	705	462		316					256	1167													515
A916-(3M)H	805	331		225					173	1136													585
A916-(5M)H	805	335	325	230	250	630	290	625	182	1140	600	690	50	30	40	105	26	120	210	32 x 20 x195	M24	42	595
A916-(8M)H	805	346		275					218	1151													610
A916-(10M)H	805	384		275					218	1189													625
A917-(10M)H	812	401		275					218	1213													650
A917-(15M)H	812	462	325	316	250	630	290	625	256	1274	600	690	50	30	40	105	26	120	210	32 x 20 x195	M24	42	675
A917-(20M)H	812	506		316					256	1318													695
A928-(5M)H	1020	337		230					182	1357													1150
A928-(8M)H	1020	363		275					218	1383													1170
A928-(10M)H	1020	401	420	275	330	800	372	800	218	1421	810	880	75	40	50	143	39	140	250	35 x 22 x 230	M30	52	1190
A928-(15M)H	1020	467		316					256	1487													1210
A928-(20M)H	1020	511		316					256	1531													1230
A928-(30M)H	1020	602		364					301	1622													1300
A939-(8M)H	1349	373		275					218	1722													2530
A939-(10M)H	1349	411		275					218	1760													2540
A939-(15M)H	1349	476	540	316	420	1050	485	1045	256	1829	1040	1160	100	55	60	200	45	180	330	42 x 26 x 265	M30	52	2570
A939-(20M)H	1349	518		316					256	1867													2580
A939-(30M)H	1349	602		364					301	1951													2660
A939-(40M)H	1349	681		418					301	2030													2700

INTEGRAL GEARMOTOR - MV

1 inch = 25.4 mm
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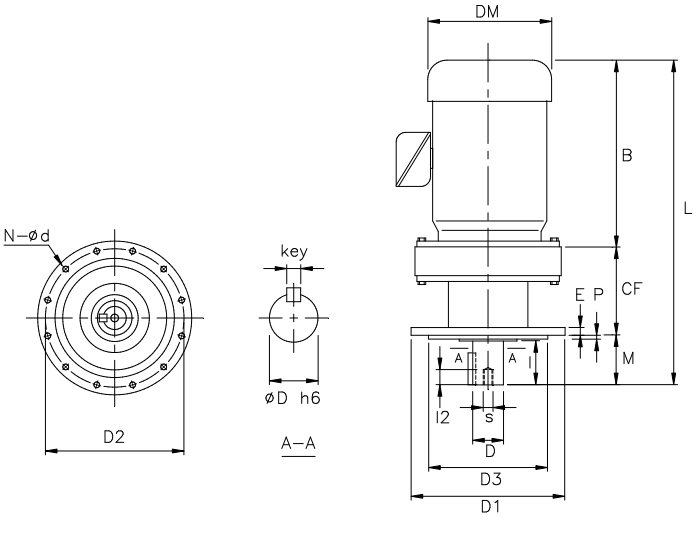
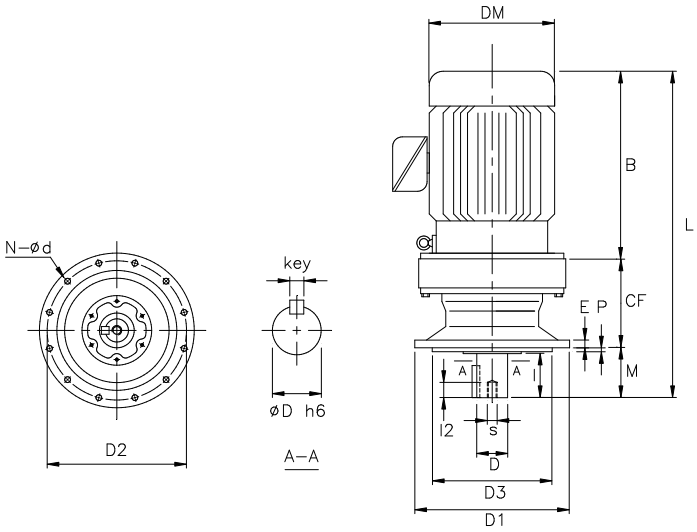
INCH SHAFT - SINGLE STAGE



B07-MV ~ B12-MV



B13-MV ~ B14-MV

FRAME SIZE	Dim in mm												Dim. in inch					Wt
													Output Shaft					
	B	CF	DM	D1	D2	D3	E	L	M	N	d	P	D	l	Key	s	l2	(lb)
B07-(1/8M)V	218	58	144	120	102	80	8	310	34	6	9	3	.500	0.98	1/8 x 1/8 x .79	M6	12	18
B08-(1/8M)V	218	56	144					316	42									20
B08-(1/4M)V	218	56	144	160	134	110	9	316	42	4	11	3	.750	1.18	3/16 x 3/16 x 1.06	M6	12	29
B08-(1/2M)V	238	56	162					336	42									37
B09-(1/8M)V	218	94	144					375	63									37
B09-(1/4M)V	218	94	144	160	134	110	9	375	63	4	11	3	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	46
B09-(1/2M)V	238	94	162					395	63									35
B09-(1M)V	248	94	177					405	63									62
B10-(1/8M)V	204	108	144					375	63									42
B10-(1/4M)V	204	108	144					375	63									51
B10-(1/2M)V	224	108	162	160	134	110	9	395	63	4	11	3	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	62
B10-(1M)V	234	108	177					405	63									66
B10-(2M)V	270	108	200					441	63									86
B10-(3M)V	301	108	219					472	63									106
B11-(1/2M)V	244	117	162					430	69									86
B11-(1M)V	254	117	177					440	69									90
B11-(2M)V	287	117	200	210	180	140	13	473	69	6	11	4	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	110
B11-(3M)V	319	117	219					505	69									110
B11-(5M)V	349	117	238					535	69									157
B12-(1/2M)V	244	117	162					430	69									90
B12-(1M)V	254	117	177					440	69									94
B12-(2M)V	287	117	200	210	180	140	13	473	69	6	11	4	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	114
B12-(3M)V	319	117	219					505	69									114
B12-(5M)V	349	117	238					535	69									161
B13-(1M)V	250	164	177					490	76									132
B13-(2M)V	290	164	200					530	76									152
B13-(3M)V	320	164	219	260	230	200	15	560	76	6	11	4	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	172
B13-(5M)V	350	164	238					590	76									198
B13-(8M)V	395	164	273					635	76									238
B13-(10M)V	435	164	273					675	76									260
B14-(1M)V	250	164	177					510	96									137
B14-(2M)V	290	164	200					550	96									157
B14-(3M)V	320	164	219	260	230	200	15	580	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	176
B14-(5M)V	350	164	238					610	96									203
B14-(8M)V	395	164	273					655	96									243
B14-(10M)V	435	164	273					695	96									265

INTEGRAL GEARMOTOR - MV

1 inch = 25.4 mm
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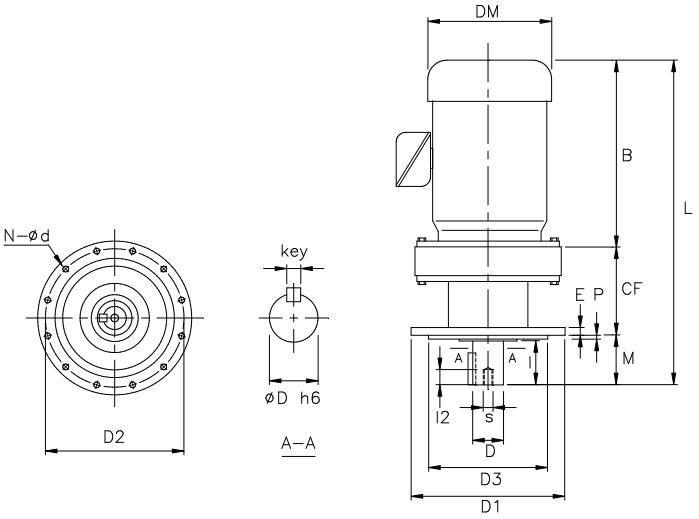
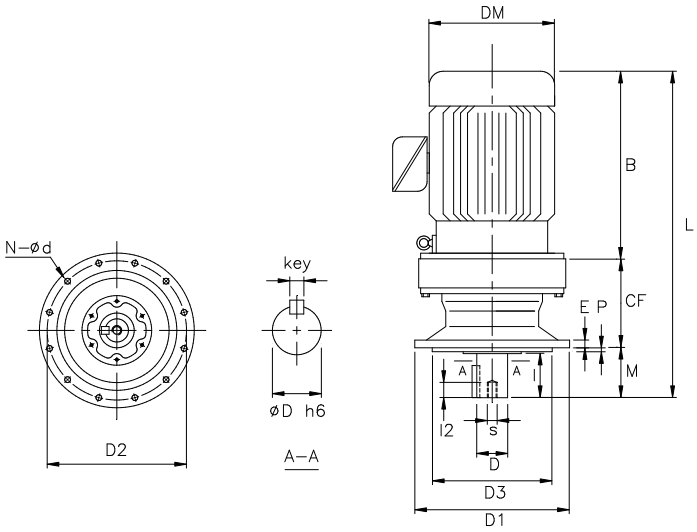
METRIC SHAFT - SINGLE STAGE



B07-MV ~ B12-MV



B13-MV ~ B14-MV

FRAME SIZE	Dim. in mm												Dim. in mm					Wt
													Output Shaft					
	B	CF	DM	D1	D2	D3	E	L	M	N	d	P	D	l	Key	s	l2	(kg)
B07-(1/8M)V	218	58	144	120	102	80	8	310	34	6	9	3	14	25	5 x 5 x 20	M6	12	8
B08-(1/8M)V	218	56	144					316	42									9
B08-(1/4M)V	218	56	144	160	134	110	9	316	42	4	11	3	18	30	6 x 6 x 25	M6	12	13
B08-(1/2M)V	238	56	162					336	42									17
B09-(1/8M)V	218	94	144					375	63									17
B09-(1/4M)V	218	94	144	160	134	110	9	375	63	4	11	3	28	50	8 x 7 x 32	M8	18	21
B09-(1/2M)V	238	94	162					395	63									16
B09-(1M)V	248	94	177					405	63									28
B10-(1/8M)V	204	108	144					375	63									19
B10-(1/4M)V	204	108	144					375	63									23
B10-(1/2M)V	224	108	162	160	134	110	9	395	63	4	11	3	28	50	8 x 7 x 32	M8	18	28
B10-(1M)V	234	108	177					405	63									30
B10-(2M)V	270	108	200					441	63									39
B10-(3M)V	301	108	219					472	63									48
B11-(1/2M)V	244	117	162					430	69									39
B11-(1M)V	254	117	177					440	69									41
B11-(2M)V	287	117	200	210	180	140	13	473	69	6	11	4	38	55	10 x 8 x 50	M10	18	50
B11-(3M)V	319	117	219					505	69									50
B11-(5M)V	349	117	238					535	69									71
B12-(1/2M)V	244	117	162					430	69									41
B12-(1M)V	254	117	177					440	69									43
B12-(2M)V	287	117	200	210	180	140	13	473	69	6	11	4	38	55	10 x 8 x 50	M10	18	52
B12-(3M)V	319	117	219					505	69									52
B12-(5M)V	349	117	238					535	69									73
B13-(1M)V	250	164	177					490	76									60
B13-(2M)V	290	164	200					530	76									69
B13-(3M)V	320	164	219	260	230	200	15	560	76	6	11	4	50	70	14 x 9 x 56	M10	18	78
B13-(5M)V	350	164	238					590	76									90
B13-(8M)V	395	164	273					635	76									108
B13-(10M)V	435	164	273					675	76									118
B14-(1M)V	250	164	177					510	96									62
B14-(2M)V	290	164	200					550	96									71
B14-(3M)V	320	164	219	260	230	200	15	580	96	6	11	4	50	90	14 x 9 x 80	M10	18	80
B14-(5M)V	350	164	238					610	96									92
B14-(8M)V	395	164	273					655	96									110
B14-(10M)V	435	164	273					695	96									120

INTEGRAL GEARMOTOR - MV

1 inch = 25.4 mm
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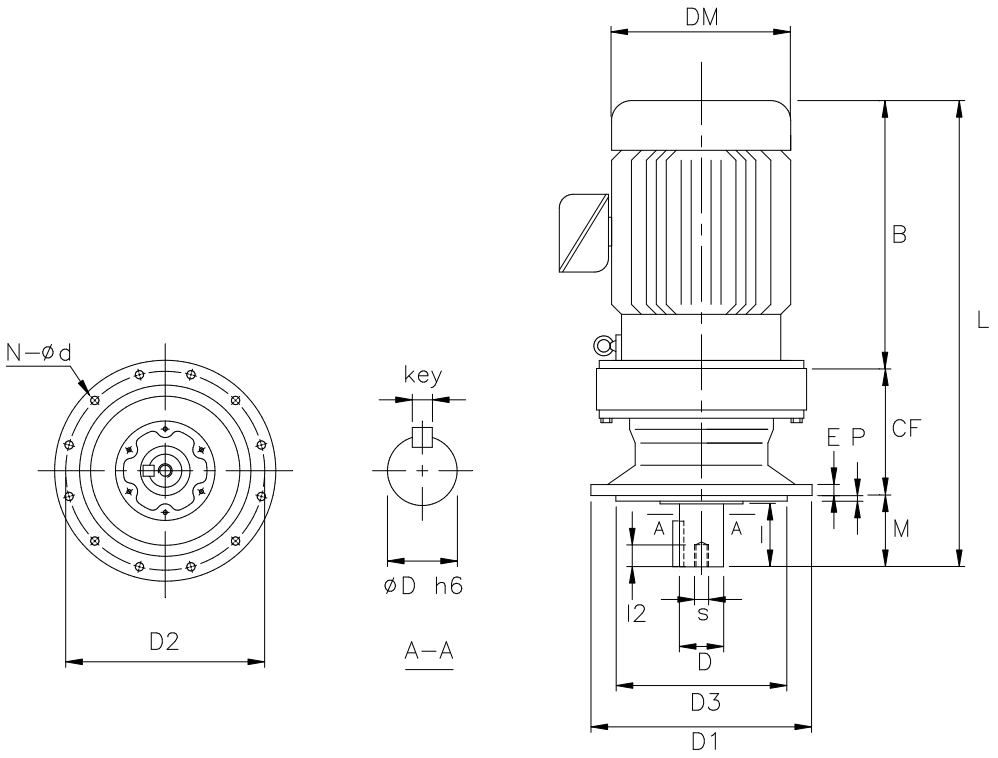
INCH SHAFT - SINGLE STAGE



B15-MV ~ B19-MV

FRAME SIZE	Dim. in mm												Dim. in inch					Wt
													Output Shaft					
	B	CF	DM	D1	D2	D3	E	L	M	N	d	P	D	l	Key	s	l2	(lb)
B15-(2M)V	290	164	220					550	96									159
B15-(3M)V	320	164	219					580	96									179
B15-(5M)V	350	164	238	260	230	200	15	610	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.95	M10	18	205
B15-(8M)V	395	164	273					655	96									245
B15-(10M)V	435	164	273					695	96									269
B15-(15M)V	460	164	334					720	96									397
B16-(2M)V	292	219	200					600	89									243
B16-(3M)V	322	219	219					630	89									265
B16-(5M)V	352	219	238					660	89									291
B16-(8M)V	397	219	273	340	310	270	20	705	89	6	11	4	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	331
B16-(10M)V	437	219	273					745	89									357
B16-(15M)V	462	219	334					770	89									452
B16-(20M)V	507	219	334					815	89									507
B17-(3M)V	323	258	219					675	94									359
B17-(5M)V	353	258	238					705	94									381
B17-(8M)V	398	258	273					750	94									419
B17-(10M)V	436	258	273	400	360	316	22	788	94	8	14	5	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	448
B17-(15M)V	508	258	334					860	94									540
B17-(20M)V	553	258	334					905	94									591
B17-(25M)V	573	258	382					925	94									739
B17-(30M)V	573	258	382					925	94									739
B18-(5M)V	356	279	238					745	110									470
B18-(8M)V	401	279	273					790	110									507
B18-(10M)V	439	279	273					828	110									536
B18-(15M)V	511	279	334	430	390	345	22	900	110	8	18	5	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	624
B18-(20M)V	556	279	334					945	110									668
B18-(25M)V	576	279	382					965	110									794
B18-(30M)V	576	279	382					965	110									794
B19-(8M)V	395	320	273					860	145									679
B19-(10M)V	435	320	273					900	145									705
B19-(15M)V	505	320	334	490	450	400	30	970	145	12	18	6	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	794
B19-(20M)V	550	320	334					1015	145									888
B19-(25M)V	570	320	382					1035	145									985
B19-(30M)V	570	320	382					1035	145									985

INTEGRAL GEARMOTOR - MV

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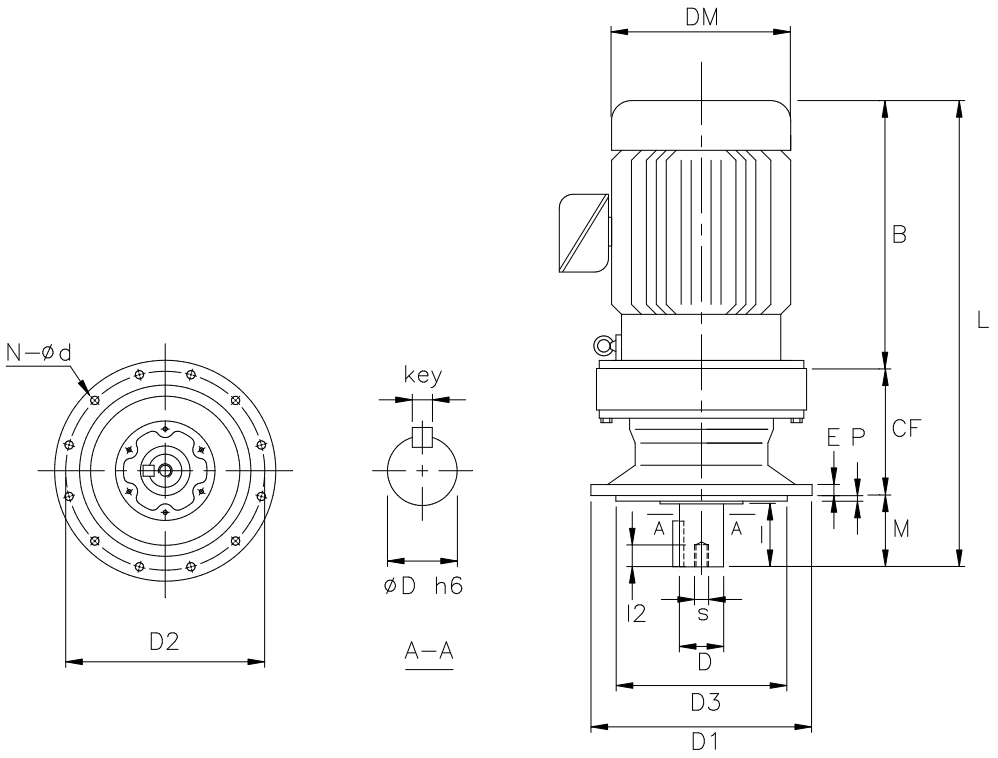
METRIC SHAFT - SINGLE STAGE



B15-MV ~ B19-MV

FRAME SIZE	Dim. in mm												Dim. in mm					Wt
													Output Shaft					
	B	CF	DM	D1	D2	D3	E	L	M	N	d	P	D	l	Key	s	l2	(kg)
B15-(2M)V	290	164	220					550	96									72
B15-(3M)V	320	164	219					580	96									81
B15-(5M)V	350	164	238	260	230	200	15	610	96	6	11	4	50	90	14 x 9 x 80	M10	18	93
B15-(8M)V	395	164	273					655	96									111
B15-(10M)V	435	164	273					695	96									122
B15-(15M)V	460	164	334					720	96									180
B16-(2M)V	292	219	200					600	89									110
B16-(3M)V	322	219	219					630	89									120
B16-(5M)V	352	219	238					660	89									132
B16-(8M)V	397	219	273	340	310	270	20	705	89	6	11	4	60	90	18 x 11 x 80	M10	18	150
B16-(10M)V	437	219	273					745	89									162
B16-(15M)V	462	219	334					770	89									205
B16-(20M)V	507	219	334					815	89									230
B17-(3M)V	323	258	219					675	94									163
B17-(5M)V	353	258	238					705	94									173
B17-(8M)V	398	258	273					750	94									190
B17-(10M)V	436	258	273	400	360	316	22	788	94	8	14	5	70	90	20 x 12 x 80	M12	24	203
B17-(15M)V	508	258	334					860	94									245
B17-(20M)V	553	258	334					905	94									268
B17-(25M)V	573	258	382					925	94									335
B17-(30M)V	573	258	382					925	94									335
B18-(5M)V	356	279	238					745	110									213
B18-(8M)V	401	279	273					790	110									230
B18-(10M)V	439	279	273					828	110									243
B18-(15M)V	511	279	334	430	390	345	22	900	110	8	18	5	80	110	22 x 14 x 100	M12	24	283
B18-(20M)V	556	279	334					945	110									303
B18-(25M)V	576	279	382					965	110									360
B18-(30M)V	576	279	382					965	110									360
B19-(8M)V	395	320	273					860	145									308
B19-(10M)V	435	320	273					900	145									320
B19-(15M)V	505	320	334	490	450	400	30	970	145	12	18	6	95	135	25 x 14 x 125	M20	34	360
B19-(20M)V	550	320	334					1015	145									403
B19-(25M)V	570	320	382					1035	145									447
B19-(30M)V	570	320	382					1035	145									447

INTEGRAL GEARMOTOR - MV

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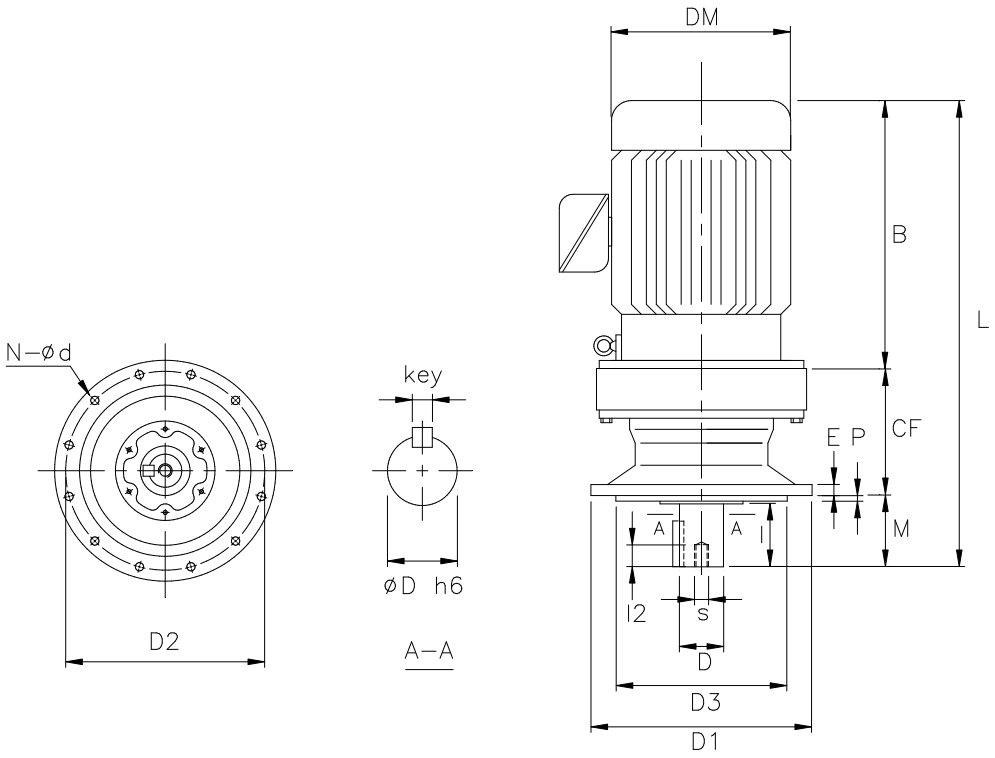
INCH SHAFT - SINGLE STAGE



B20-MV ~ B23-MV

	Dim. in mm												Dim. in inch					
FRAME SIZE	B	CF	DM	D1	D2	D3	E	L	M	N	d	P	Output Shaft D	Output Shaft l	Output Shaft Key	Output Shaft s	Output Shaft l2	Wt (lb)
B20-(15M)V	506	298	334					1008	204									772
B20-(20M)V	551	298	334					1053	204									816
B20-(25M)V	571	298	382					1073	204									970
B20-(30M)V	571	298	382	455	405	355	30	1073	204	8	22	5	3.875	6.50	1 x 1 x 6.50	M20	34	970
B20-(40M)V	613	298	382					1115	204									992
B20-(50M)V	673	298	420					1175	204									1113
B20-(60M)V	673	298	420					1175	204									1113
B21-(15M)V	504	323	334					1030	203									948
B21-(20M)V	549	323	334					1075	203									992
B21-(25M)V	570	323	382					1096	203									1135
B21-(30M)V	570	323	382	490	440	390	35	1096	203	8	24	7	4.250	6.50	1 x 1 x 6.50	M20	34	1135
B21-(40M)V	609	323	382					1135	203									1168
B21-(50M)V	669	323	420					1195	203									1290
B21-(60M)V	669	323	420					1195	203									1290
B21-(75M)V	709	323	458					1235	203									1499
B22-(25M)V	570	356	382					1136	210									1323
B22-(30M)V	570	356	382					1136	210									1323
B22-(40M)V	609	356	382	535	475	415	35	1175	210	8	27	10	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	1356
B22-(50M)V	669	356	420					1235	210									1477
B22-(60M)V	669	356	420					1235	210									1477
B22-(75M)V	709	356	458					1275	210									1653
*B23-(206M)V	562	378	334					1190	250									1499
*B23-(256M)V	602	378	382					1230	250									1539
*B23-(306M)V	602	378	382					1230	250									1543
*B23-(406M)V	662	378	382	570	510	450	40	1290	250	8	27	10	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1704
*B23-(506M)V	662	378	420					1290	250									1709
*B23-(606M)V	697	378	420					1325	250									1841
*B23-(756M)V	777	378	458					1405	250									1962

*** denotes 6-pole motor (i.e. 206M = 6-pole 20 hp motor, 606M = 6-pole 60 hp motor)**

INTEGRAL GEARMOTOR - MV__

1 inch = 25.4 mm
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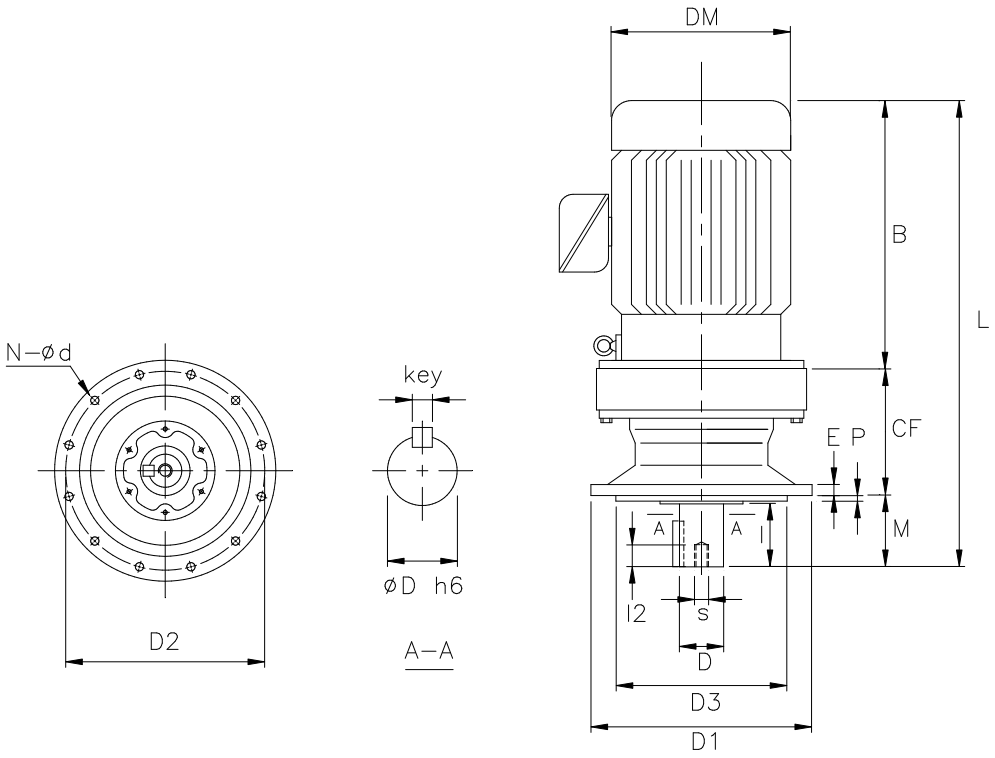
METRIC SHAFT - SINGLE STAGE



B20-MV ~ B23-MV

	Dim. in mm												Dim. in mm					
FRAME SIZE	B	CF	DM	D1	D2	D3	E	L	M	N	d	P	Output Shaft D	Output Shaft l	Output Shaft Key	Output Shaft s	Output Shaft l2	Wt (kg)
B20-(15M)V	506	298	334					1008	204									350
B20-(20M)V	551	298	334					1053	204									370
B20-(25M)V	571	298	382					1073	204									440
B20-(30M)V	571	298	382	455	405	355	30	1073	204	8	22	5	100	165	28 x 16 x 165	M20	34	440
B20-(40M)V	613	298	382					1115	204									450
B20-(50M)V	673	298	420					1175	204									505
B20-(60M)V	673	298	420					1175	204									505
B21-(15M)V	504	323	334					1030	203									430
B21-(20M)V	549	323	334					1075	203									450
B21-(25M)V	570	323	382					1096	203									515
B21-(30M)V	570	323	382	490	440	390	35	1096	203	8	24	7	110	165	28 x 16 x 165	M20	34	515
B21-(40M)V	609	323	382					1135	203									530
B21-(50M)V	669	323	420					1195	203									585
B21-(60M)V	669	323	420					1195	203									585
B21-(75M)V	709	323	458					1235	203									680
B22-(25M)V	570	356	382					1136	210									600
B22-(30M)V	570	356	382					1136	210									600
B22-(40M)V	609	356	382	535	475	415	35	1175	210	8	27	10	120	165	32 x 18 x 165	M20	34	615
B22-(50M)V	669	356	420					1235	210									670
B22-(60M)V	669	356	420					1235	210									670
B22-(75M)V	709	356	458					1275	210									750
*B23-(206M)V	562	378	334					1190	250									680
*B23-(256M)V	602	378	382					1230	250									698
*B23-(306M)V	602	378	382					1230	250									700
*B23-(406M)V	662	378	382	570	510	450	40	1290	250	8	27	10	130	200	32 x 18 x 200	M24	41	773
*B23-(506M)V	662	378	420					1290	250									775
*B23-(606M)V	697	378	420					1325	250									835
*B23-(756M)V	777	378	458					1405	250									890

*** denotes 6-pole motor (i.e. 206M = 6-pole 20 hp motor, 606M = 6-pole 60 hp motor)**

INTEGRAL GEARMOTOR - MV

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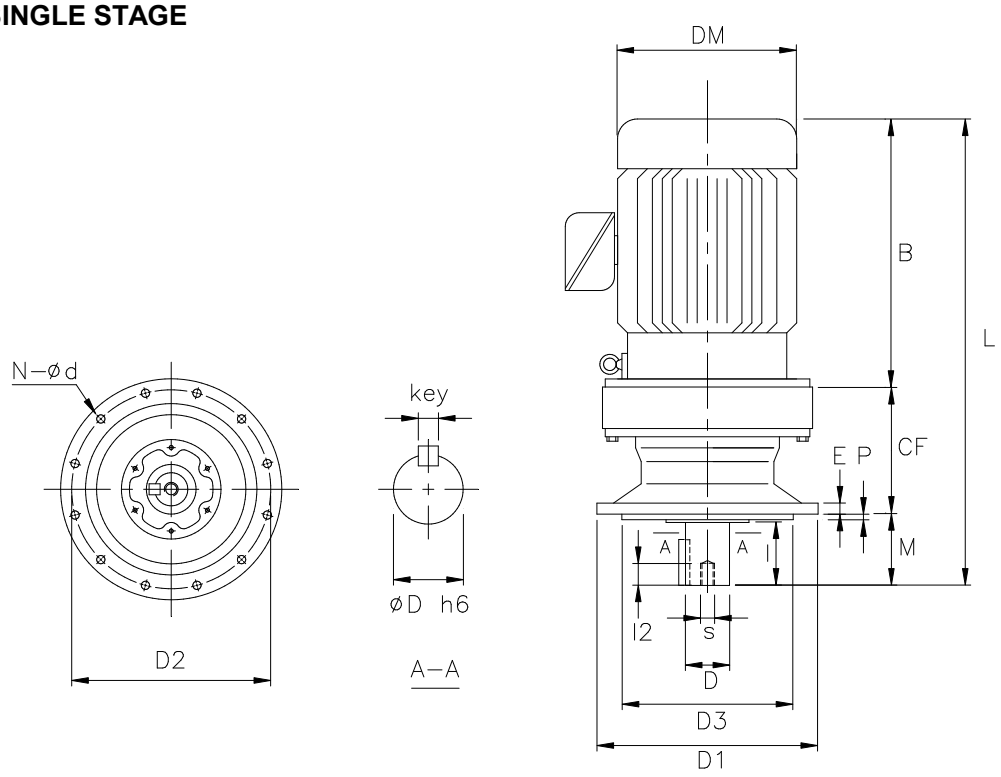
INCH SHAFT - SINGLE STAGE



B24-MV ~ B26-MV, A90-MV ~ A92-MV

FRAME SIZE	Dim. in mm												Dim. in inch					Wt
													Output Shaft					
	B	CF	DM	D1	D2	D3	E	L	M	N	d	P	D	l	Key	s	l2	(lb)
*B24-(206M)V	563	407	334					1220	250									1775
*B24-(256M)V	603	407	382					1260	250									1808
*B24-(306M)V	603	407	382					1260	250									1808
*B24-(406M)V	663	407	382	635	560	485	40	1320	250	8	33	10	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1973
*B24-(506M)V	663	407	420					1320	250									1973
*B24-(606M)V	698	407	420					1355	250									2116
*B24-(756M)V	778	407	458					1435	250									2222
*B25-(256M)V	485	480	382					1260	295									2535
*B25-(306M)V	485	480	382					1260	295									2542
*B25-(406M)V	550	480	382	685	610	535	45	1325	295	8	33	10	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	2701
*B25-(506M)V	550	480	420					1325	295									2707
*B25-(606M)V	587	480	420					1362	295									2822
*B25-(756M)V	675	480	458					1450	295									2976
*B26-(406M)V	668	532	382					1560	360									3225
*B26-(506M)V	668	532	420	750	660	570	50	1560	360	8	39	10	6.625	11.81	1.75 x 1.25 x 11.8	M30	49	3230
*B26-(606M)V	708	532	420					1600	360									3391
A90-(15M)V	474	380	316					1044	190									1025
A90-(20M)V	518	380	316					1088	190									1069
A90-(30M)V	620	380	364	580	520	455	35	1190	190	12	22	8	4.250	6.69	1 x 1 x 6.31	M20	34	1235
A90-(40M)V	681	380	418					1251	190									1323
A90-(50M)V	698	380	442					1268	190									1488
*A90-(506M)V	723	380	442					1293	190									1587
*A91-(206M)V	625	414	364					1281	242									1625
*A91-(306M)V	686	414	418					1342	242									1709
*A91-(406M)V	751	414	442	650	590	520	40	1407	242	12	22	10	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1874
*A91-(506M)V	751	414	442					1407	242									1962
*A91-(606M)V	918	414	485					1574	242									2039
*A91-(756M)V	1071	414	558					1727	242									2425
*A92-(306M)V	697	601	418					1550	252									2888
*A92-(406M)V	770	601	442					1623	252									3042
*A92-(506M)V	770	601	442	880	800	680	50	1623	252	12	33	10	5.500	9.84	1 1/4 x 7/8 x 9.66	M30	52	3153
*A92-(606M)V	925	601	485					1778	252									3219
*A92-(756M)V	1073	601	558					1926	252									3505

*** denotes 6-pole motor (i.e. 206M = 6-pole 20 hp motor, 606M = 6-pole 60 hp motor)**

INTEGRAL GEARMOTOR - MV

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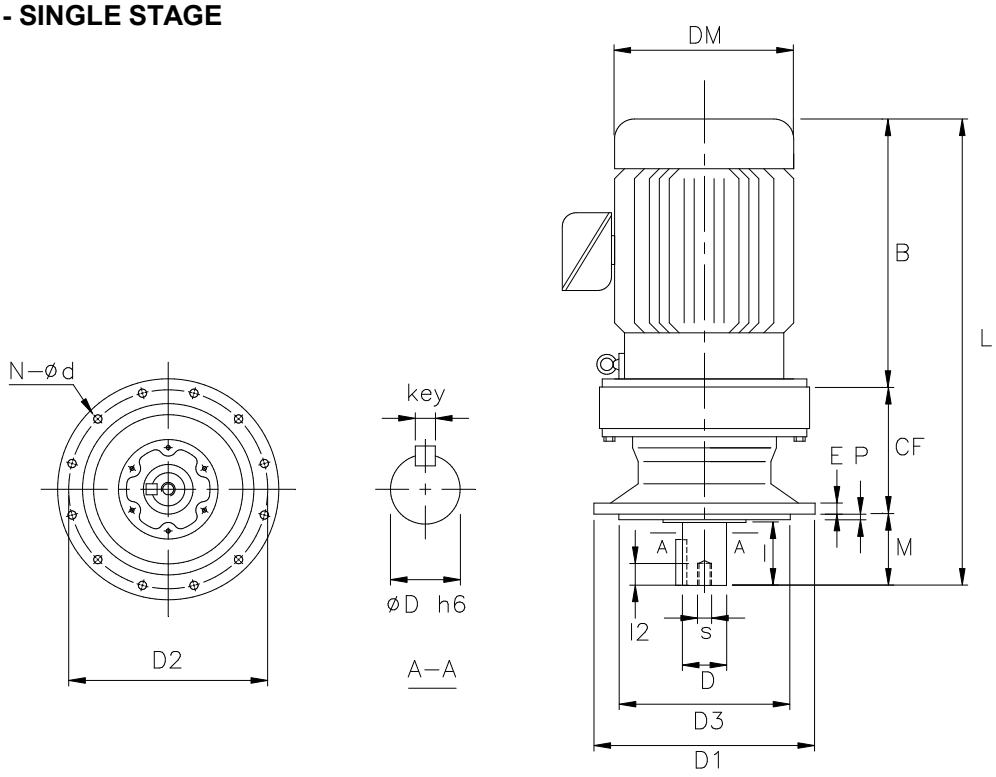
METRIC SHAFT - SINGLE STAGE



B24-MV ~ B26-MV, A90-MV ~ A92-MV

FRAME SIZE	Dim. in mm												Dim. in mm					Wt
													Output Shaft					
	B	CF	DM	D1	D2	D3	E	L	M	N	d	P	D	l	Key	s	l2	(kg)
*B24-(206M)V	563	407	334					1220	250									805
*B24-(256M)V	603	407	382					1260	250									820
*B24-(306M)V	603	407	382					1260	250									820
*B24-(406M)V	663	407	382	635	560	485	40	1320	250	8	33	10	140	200	36 x 20 x 200	M24	41	895
*B24-(506M)V	663	407	420					1320	250									895
*B24-(606M)V	698	407	420					1355	250									960
*B24-(756M)V	778	407	458					1435	250									1008
*B25-(256M)V	485	480	382					1260	295									1150
*B25-(306M)V	485	480	382					1260	295									1153
*B25-(406M)V	550	480	382	685	610	535	45	1325	295	8	33	10	160	240	40 x 22 x 240	M30	49	1225
*B25-(506M)V	550	480	420					1325	295									1228
*B25-(606M)V	587	480	420					1362	295									1280
*B25-(756M)V	675	480	458					1450	295									1350
*B26-(406M)V	668	532	382					1560	360									1463
*B26-(506M)V	668	532	420	750	660	570	50	1560	360	8	39	10	170	300	40 x 22 x 300	M30	49	1465
*B26-(606M)V	708	532	420					1600	360									1538
A90-(15M)V	474	380	316					1044	190									465
A90-(20M)V	518	380	316					1088	190									485
A90-(30M)V	620	380	364	580	520	455	35	1190	190	12	22	8	110	170	28 x 18 x155	M20	34	560
A90-(40M)V	681	380	418					1251	190									600
A90-(50M)V	698	380	442					1268	190									675
*A90-(506M)V	723	380	442					1293	190									720
*A91-(206M)V	625	414	364					1281	242									737
*A91-(306M)V	686	414	418					1342	242									775
*A91-(406M)V	751	414	442	650	590	520	40	1407	242	12	22	10	120	210	32 x 20 x195	M24	42	850
*A91-(506M)V	751	414	442					1407	242									890
*A91-(606M)V	918	414	485					1574	242									925
*A91-(756M)V	1071	414	558					1727	242									1100
*A92-(306M)V	697	601	418					1550	252									1310
*A92-(406M)V	770	601	442					1623	252									1380
*A92-(506M)V	770	601	442	880	800	680	50	1623	252	12	33	10	140	250	35 x 22 x 230	M30	52	1430
*A92-(606M)V	925	601	485					1778	252									1460
*A92-(756M)V	1073	601	558					1926	252									1590

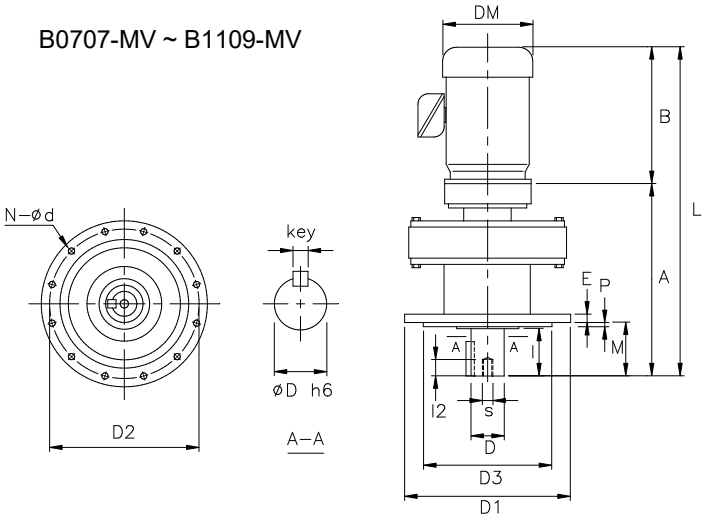
*** denotes 6-pole motor (i.e. 206M = 6-pole 20 hp motor, 606M = 6-pole 60 hp motor)**

INTEGRAL GEARMOTOR - MV

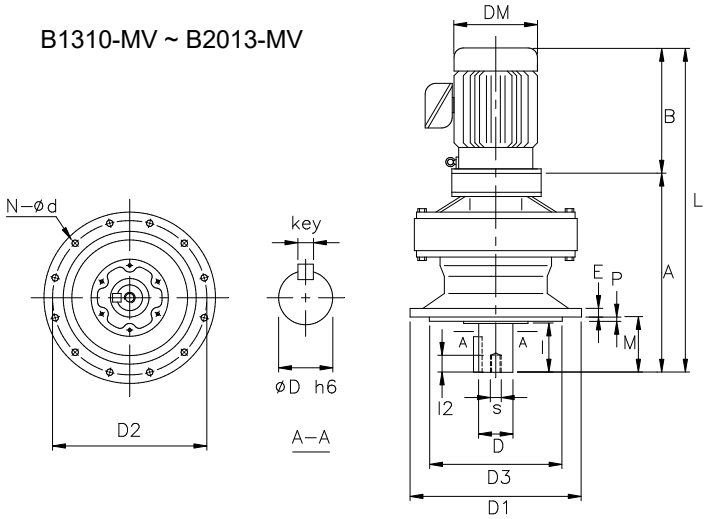
1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

INCH SHAFT - DOUBLE STAGE

B0707-MV ~ B1109-MV



B1310-MV ~ B2013-MV



FRAME SIZE	Dim. in mm												Dim. in inch					Wt
													Output Shaft					
	B	A	DM	D1	D2	D3	E	L	M	N	d	P	D	l	Key	s	l2	(lb)
B0707-(1/8M)V	200	125	130	120	102	80	8	325	34	6	9	3	.500	0.98	1/8 x 1/8 x .79	M6	12	20
B0807-(1/8M)V	200	131	130	160	134	110	9	331	42	4	11	3	.750	1.18	3/16 x 3/16 x 1.06	M6	12	22
B0908-(1/8M)V	200	205	130	160	134	110	9	405	63	4	11	3	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	37
B0908-(1/4M)V	218	205	144					423										40
B1008-(1/8M)V	200	219	130					419										42
B1008-(1/4M)V	218	219	144	160	134	110	9	437	63	4	11	3	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	44
B1008-(1/2M)V	238	219	162					457										49
B1109-(1/8M)V	200	252	130					452										66
B1109-(1/4M)V	218	252	144	210	180	140	13	470	69	6	11	4	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	79
B1109-(1/2M)V	238	252	162					490										84
B1310-(1M)V	248	317	177	260	230	200	15	565	76	6	11	4	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	121
B1310-(2M)V	285	317	200					602										130
B1409-(1/4M)V	218	323	144					541										108
B1409-(1/2M)V	238	323	162	260	230	200	15	561	96	6	11	4	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	112
B1409-(1M)V	248	323	177					571										117
B1611-(3M)V	316	389	219	340	310	270	20	705	89	6	11	4	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	243
B1611-(5M)V	346	389	238					735										282
B1711-(3M)V	317	436	219	400	360	316	22	753	94	8	14	5	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	320
B1711-(5M)V	347	436	238					783										359
B1813-(3M)V	319	496	219					815										432
B1813-(5M)V	349	496	238	430	390	345	22	845	110	8	18	5	3.125	4.33	3/4 x 3/4 x 3.74	M12	24	472
B1813-(8M)V	394	496	273					890										514
B1813-(10M)V	434	496	273					930										540
B1911-(1M)V	248	556	177					804										549
B1911-(2M)V	285	556	200	490	450	400	30	841	145	12	18	6	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	558
B1911-(3M)V	315	556	219					871										569
B1911-(5M)V	442	556	238					998										606
B1913-(3M)V	315	572	219					887										584
B1913-(5M)V	345	572	238	490	450	400	30	917	145	12	18	6	3.625	5.31	7/8 x 7/8 x 4.92	M20	34	622
B1913-(8M)V	399	572	273					971										666
B1913-(10M)V	437	572	273					1009										694
B2011-(1M)V	248	597	177	455	405	355	30	845	204	8	22	5	3.875	6.50	1 x 1 x 6.50	M20	34	591
B2011-(2M)V	285	597	200					882										600
B2013-(2M)V	285	624	200					909										628
B2013-(3M)V	315	624	219	455	405	355	30	939	204	8	22	5	3.875	6.50	1 x 1 x 6.50	M20	34	635
B2013-(5M)V	345	624	238					969										675

INTEGRAL GEARMOTOR - MV

1 inch = 25.4 mm
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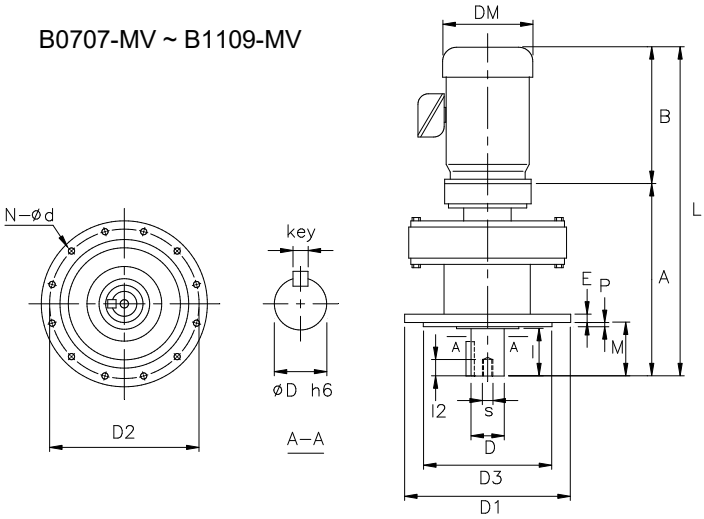
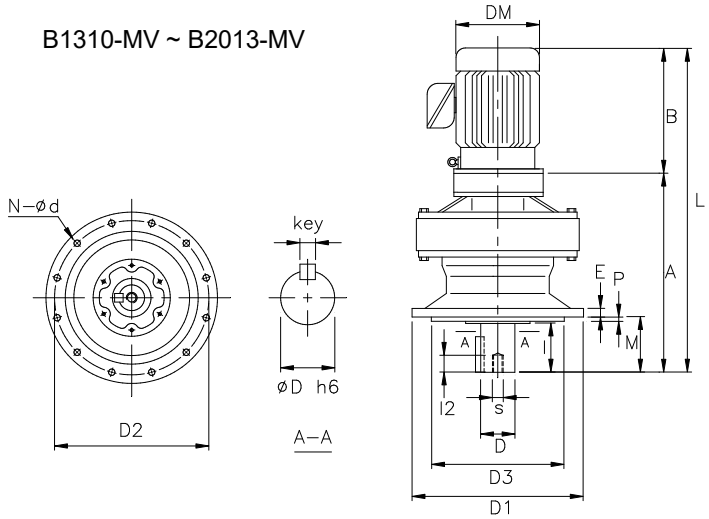
METRIC SHAFT - DOUBLE STAGE

B0707-MV ~ B1109-MV



B1310-MV ~ B2013-MV



FRAME SIZE	Dim. in mm												Dim. in mm					Wt
													Output Shaft					
	B	A	DM	D1	D2	D3	E	L	M	N	d	P	D	l	Key	s	l2	(kg)
B0707-(1/8M)V	200	125	130	120	102	80	8	325	34	6	9	3	14	25	5 x 5 x 20	M6	12	9
B0807-(1/8M)V	200	131	130	160	134	110	9	331	42	4	11	3	18	30	6 x 6 x 25	M6	12	10
B0908-(1/8M)V	200	205	130	160	134	110	9	405	63	4	11	3	28	50	8 x 7 x 32	M8	18	17
B0908-(1/4M)V	218	205	144					423										18
B1008-(1/8M)V	200	219	130					419										19
B1008-(1/4M)V	218	219	144	160	134	110	9	437	63	4	11	3	28	50	8 x 7 x 32	M8	18	20
B1008-(1/2M)V	238	219	162					457										22
B1109-(1/8M)V	200	252	130					452										30
B1109-(1/4M)V	218	252	144	210	180	140	13	470	69	6	11	4	38	55	10 x 8 x 50	M10	18	36
B1109-(1/2M)V	238	252	162					490										38
B1310-(1M)V	248	317	177	260	230	200	15	565	76	6	11	4	50	70	14 x 9 x 56	M10	18	55
B1310-(2M)V	285	317	200					602										59
B1409-(1/4M)V	218	323	144					541										49
B1409-(1/2M)V	238	323	162	260	230	200	15	561	96	6	11	4	50	90	14 x 9 x 80	M10	18	51
B1409-(1M)V	248	323	177					571										53
B1611-(3M)V	316	389	219	340	310	270	20	705	89	6	11	4	60	90	18 x 11 x 80	M10	18	110
B1611-(5M)V	346	389	238					735										128
B1711-(3M)V	317	436	219	400	360	316	22	753	94	8	14	5	70	90	20 x 12 x 80	M12	24	145
B1711-(5M)V	347	436	238					783										163
B1813-(3M)V	319	496	219					815										196
B1813-(5M)V	349	496	238	430	390	345	22	845	110	8	18	5	80	110	22 x 14 x 100	M12	24	214
B1813-(8M)V	394	496	273					890										233
B1813-(10M)V	434	496	273					930										245
B1911-(1M)V	248	556	177					804										249
B1911-(2M)V	285	556	200	490	450	400	30	841	145	12	18	6	95	135	25 x 14 x 125	M20	34	253
B1911-(3M)V	315	556	219					871										258
B1911-(5M)V	442	556	238					998										275
B1913-(3M)V	315	572	219					887										265
B1913-(5M)V	345	572	238	490	450	400	30	917	145	12	18	6	95	135	25 x 14 x 125	M20	34	282
B1913-(8M)V	399	572	273					971										302
B1913-(10M)V	437	572	273					1009										315
B2011-(1M)V	248	597	177	455	405	355	30	845	204	8	22	5	100	165	28 x 16 x 165	M20	34	268
B2011-(2M)V	285	597	200					882										272
B2013-(2M)V	285	624	200					909										285
B2013-(3M)V	315	624	219	455	405	355	30	939	204	8	22	5	100	165	28 x 16 x 165	M20	34	288
B2013-(5M)V	345	624	238					969										306

INTEGRAL GEARMOTOR - MV

1 inch = 25.4 mm
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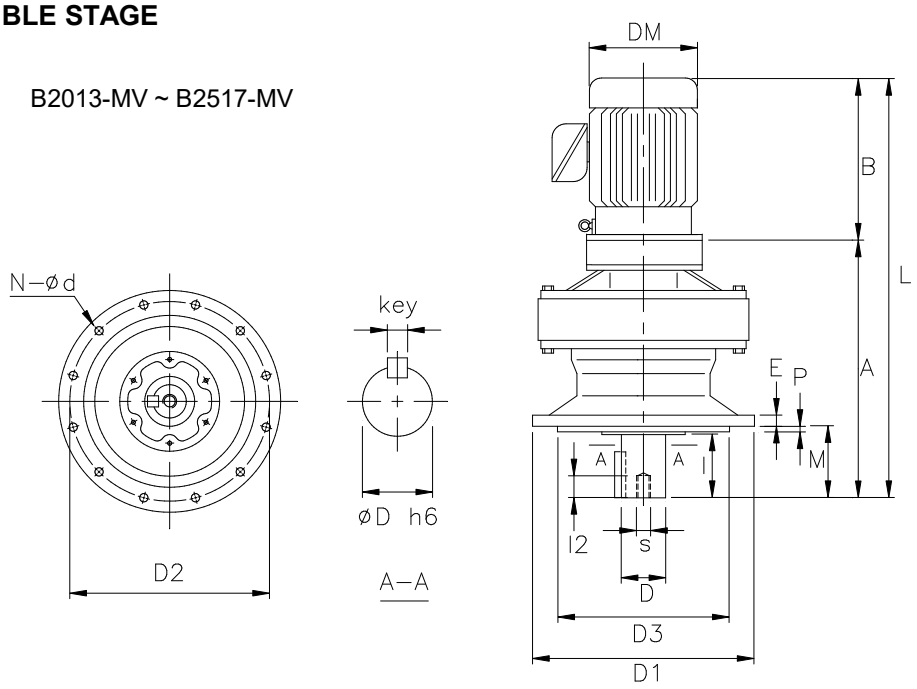
INCH SHAFT - DOUBLE STAGE

B2013-MV ~ B2517-MV



FRAME SIZE	Dim. in mm												Dim. in inch					Wt
													Output Shaft					
	B	A	DM	D1	D2	D3	E	L	M	N	d	P	D	I	Key	s	I2	(lb)
B2013-(8M)V	389	624	273	455	405	355	30	1013	204	8	22	5	3.875	6.50	1 x 1 x 6.50	M20	34	716
B2013-(10M)V	427	624	273					1051										743
B2113-(2M)V	285	650	200					935										805
B2113-(3M)V	315	650	219					965										811
B2113-(5M)V	345	650	238	490	440	390	35	995	203	8	24	7	4.250	6.50	1 x 1 x 6.50	M20	34	853
B2113-(8M)V	389	650	273					1039										893
B2113-(10M)V	427	650	273					1077										922
B2116-(10M)V	427	675	273	490	440	390	35	1102	203	8	24	7	4.250	6.50	1 x 1 x 6.50	M20	34	959
B2116-(15M)V	498	675	334					1173										1032
B2213-(2M)V	285	692	200					977										970
B2213-(3M)V	315	692	219					1007										981
B2213-(5M)V	345	692	238	535	475	415	35	1037	210	8	27	10	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	1014
B2213-(8M)V	389	692	273					1081										1058
B2213-(10M)V	427	692	273					1119										1091
B2217-(8M)V	389	735	273					1124										1157
B2217-(10M)V	427	735	273	535	475	415	35	1162	210	8	27	10	4.625	6.50	1 1/4 x 7/8 x 6.50	M20	34	1186
B2217-(15M)V	498	735	334					1233										1254
B2217-(20M)V	542	735	334					1277										1296
B2316-(3M)V	317	778	219					1095										1237
B2316-(5M)V	347	778	238					1125										1279
B2316-(8M)V	392	778	273	570	510	450	40	1170	250	8	27	10	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1314
B2316-(10M)V	430	778	273					1208										1340
B2316-(15M)V	502	778	334					1280										1411
B2316-(20M)V	522	778	334					1300										1455
B2318-(30M)V	563	800	382	570	510	450	40	1363	250	8	27	10	5.000	7.87	1 1/4 x 7/8 x 7.87	M24	41	1675
B2416-(3M)V	319	816	219					1135										1477
B2416-(5M)V	349	816	238					1165										1510
B2416-(8M)V	394	816	273	635	560	485	40	1210	250	8	33	10	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1554
B2416-(10M)V	432	816	273					1248										1583
B2416-(15M)V	504	816	334					1320										1653
B2416-(20M)V	549	816	334					1365										1698
B2418-(20M)V	543	837	334					1380										1764
B2418-(25M)V	563	837	382	635	560	485	40	1400	250	8	33	10	5.500	7.87	1 1/4 x 7/8 x 7.87	M24	41	1896
B2418-(30M)V	563	837	382					1400										1896
B2517-(5M)V	349	956	238					1305										2293
B2517-(8M)V	394	956	273					1350										2337
B2517-(10M)V	429	956	273					1385										2359
B2517-(15M)V	499	956	334	685	610	535	45	1455	295	8	33	10	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	2447
B2517-(20M)V	544	956	334					1500										2469
B2517-(25M)V	564	956	382					1520										2623
B2517-(30M)V	564	956	382					1520										2634

INTEGRAL GEARMOTOR - MV

1 inch = 25.4 mm
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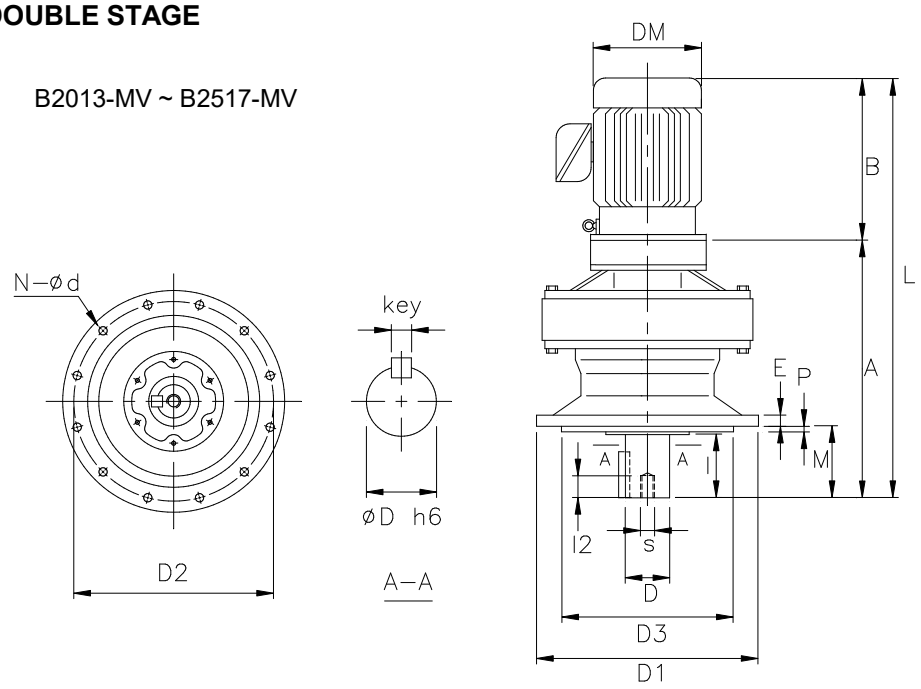
METRIC SHAFT - DOUBLE STAGE

B2013-MV ~ B2517-MV



FRAME SIZE	Dim. in mm												Output Shaft					Wt
	B	A	DM	D1	D2	D3	E	L	M	N	d	P	D	l	Key	s	l2	(kg)
B2013-(8M)V	389	624	273	455	405	355	30	1013	204	8	22	5	100	165	28 x 16 x 165	M20	34	325
B2013-(10M)V	427	624	273					1051										337
B2113-(2M)V	285	650	200					935										365
B2113-(3M)V	315	650	219					965										368
B2113-(5M)V	345	650	238	490	440	390	35	995	203	8	24	7	110	165	28 x 16 x 165	M20	34	387
B2113-(8M)V	389	650	273					1039										405
B2113-(10M)V	427	650	273					1077										418
B2116-(10M)V	427	675	273	490	440	390	35	1102	203	8	24	7	110	165	28 x 16 x 165	M20	34	435
B2116-(15M)V	498	675	334					1173										468
B2213-(2M)V	285	692	200					977										440
B2213-(3M)V	315	692	219					1007										445
B2213-(5M)V	345	692	238	535	475	415	35	1037	210	8	27	10	120	165	32 x 18 x 165	M20	34	460
B2213-(8M)V	389	692	273					1081										480
B2213-(10M)V	427	692	273					1119										495
B2217-(8M)V	389	735	273					1124										525
B2217-(10M)V	427	735	273	535	475	415	35	1162	210	8	27	10	120	165	32 x 18 x 165	M20	34	538
B2217-(15M)V	498	735	334					1233										569
B2217-(20M)V	542	735	334					1277										588
B2316-(3M)V	317	778	219					1095										561
B2316-(5M)V	347	778	238					1125										580
B2316-(8M)V	392	778	273	570	510	450	40	1170	250	8	27	10	130	200	32 x 18 x 200	M24	41	596
B2316-(10M)V	430	778	273					1208										608
B2316-(15M)V	502	778	334					1280										640
B2316-(20M)V	522	778	334					1300										660
B2318-(30M)V	563	800	382	570	510	450	40	1363	250	8	27	10	130	200	32 x 18 x 200	M24	41	760
B2416-(3M)V	319	816	219					1135										670
B2416-(5M)V	349	816	238					1165										685
B2416-(8M)V	394	816	273	635	560	485	40	1210	250	8	33	10	140	200	36 x 20 x 200	M24	41	705
B2416-(10M)V	432	816	273					1248										718
B2416-(15M)V	504	816	334					1320										750
B2416-(20M)V	549	816	334					1365										770
B2418-(20M)V	543	837	334					1380										800
B2418-(25M)V	563	837	382	635	560	485	40	1400	250	8	33	10	140	200	36 x 20 x 200	M24	41	860
B2418-(30M)V	563	837	382					1400										860
B2517-(5M)V	349	956	238					1305										1040
B2517-(8M)V	394	956	273					1350										1060
B2517-(10M)V	429	956	273					1385										1070
B2517-(15M)V	499	956	334	685	610	535	45	1455	295	8	33	10	160	240	40 x 22 x 240	M30	49	1110
B2517-(20M)V	544	956	334					1500										1120
B2517-(25M)V	564	956	382					1520										1190
B2517-(30M)V	564	956	382					1520										1195

INTEGRAL GEARMOTOR - MV

1 inch = 25.4 mm
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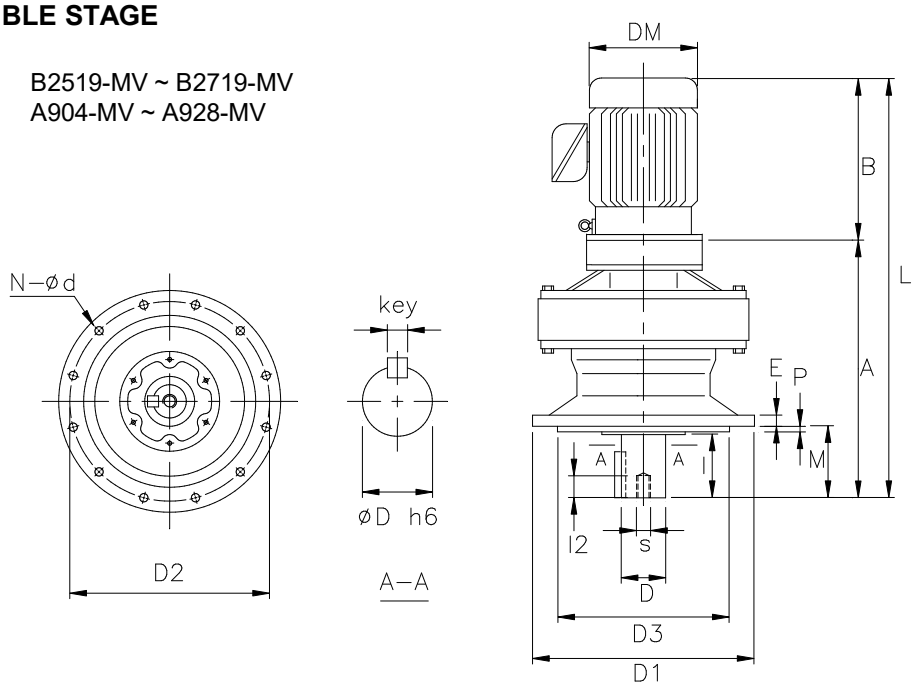
INCH SHAFT - DOUBLE STAGE

B2519-MV ~ B2719-MV
A904-MV ~ A928-MV



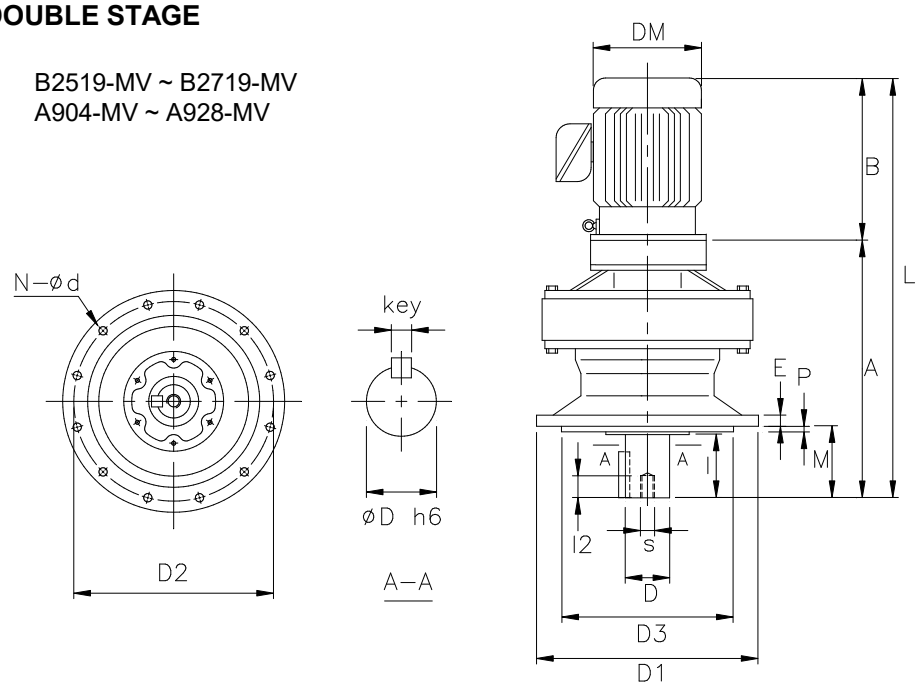
	Dim. in mm												Dim. in inch					
FRAME SIZE	B	A	DM	D1	D2	D3	E	L	M	N	d	P	Output Shaft D	Output Shaft l	Output Shaft Key	Output Shaft s	Output Shaft l2	Wt (lb)
B2519-(25M)V	562	978	382					1540										2789
B2519-(30M)V	562	978	382	685	610	535	45	1540	295	8	33	10	6.250	9.45	1 1/2 x 1 x 9.45	M30	49	2800
B2519-(40M)V	562	978	382					1540										2822
B2619-(8M)V	392	1088	273					1480										3053
B2619-(10M)V	432	1088	273					1520										3075
B2619-(15M)V	502	1088	334					1590										3153
B2619-(20M)V	546	1088	334	750	660	570	50	1634	360	8	39	10	6.625	11.81	1 3/4 x 1 1/4 x 11.8	M30	49	3197
B2619-(25M)V	565	1088	382					1653										3351
B2619-(30M)V	565	1088	382					1653										3351
B2619-(40M)V	607	1088	382					1695										3384
B2619-(50M)V	667	1088	420					1755										3461
B2719-(8M)V	391	1349	273					1740										5556
B2719-(10M)V	429	1349	273					1778										5578
B2719-(15M)V	501	1349	334					1850										5666
B2719-(20M)V	546	1349	334	1160	1020	900	60	1895	355	8	39	10	7.000	13.0	1 3/4 x 1 1/4 x 13	M30	52	5688
B2719-(25M)V	566	1349	382					1915										5864
B2719-(30M)V	566	1349	382					1915										5864
B2719-(40M)V	601	1349	382					1950										5886
B2719-(50M)V	661	1349	420					2010										5974
A904-(2M)V	301	682	199					983										915
A904-(3M)V	331	682	225	580	520	455	35	1013	190	12	22	8	4.250	6.69	1 x 1 x 6.31	M20	34	937
A904-(5M)V	325	682	230					1007										959
A904-(8M)V	357	682	275					1039										992
A906-(8M)V	346	705	275					1051										1047
A906-(10M)V	384	705	275	580	520	455	35	1089	190	12	22	8	4.250	6.69	1 x 1 x 6.31	M20	34	1080
A906-(15M)V	462	705	316					1167										1135
A916-(3M)V	331	805	225					1136										1290
A916-(5M)V	335	805	230	650	590	520	40	1140	247	12	22	10	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1312
A916-(8M)V	346	805	275					1151										1345
A916-(10M)V	384	805	275					1189										1378
A917-(10M)V	401	812	275					1213										1433
A917-(15M)V	462	812	316	650	590	520	40	1274	247	12	22	10	4.625	8.28	1 1/4 x 7/8 x 7.88	M24	42	1488
A917-(20M)V	506	812	316					1318										1532
A928-(5M)V	337	1020	230					1357										2535
A928-(8M)V	363	1020	275					1383										2579
A928-(10M)V	401	1020	275	880	800	680	50	1421	252	12	33	10	5.500	9.84	1 1/4 x 7/8 x 9.66	M30	52	2623
A928-(15M)V	467	1020	316					1487										2668
A928-(20M)V	511	1020	316					1531										2712
A928-(30M)V	602	1020	364					1622										2866

INTEGRAL GEARMOTOR - MV

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

METRIC SHAFT - DOUBLE STAGE

B2519-MV ~ B2719-MV
A904-MV ~ A928-MV

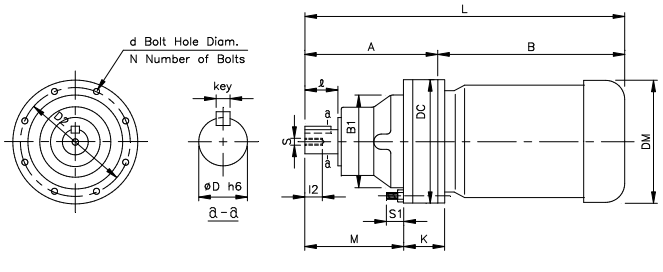


FRAME SIZE	Dim. in mm												Output Shaft					Wt
	B	A	DM	D1	D2	D3	E	L	M	N	d	P	D	l	Key	s	l2	(kg)
B2519-(25M)V	562	978	382					1540										1265
B2519-(30M)V	562	978	382	685	610	535	45	1540	295	8	33	10	160	240	40 x 22 x 240	M30	49	1270
B2519-(40M)V	562	978	382					1540										1280
B2619-(8M)V	392	1088	273					1480										1385
B2619-(10M)V	432	1088	273					1520										1395
B2619-(15M)V	502	1088	334					1590										1430
B2619-(20M)V	546	1088	334	750	660	570	50	1634	360	8	39	10	170	300	40 x 22 x 300	M30	49	1450
B2619-(25M)V	565	1088	382					1653										1520
B2619-(30M)V	565	1088	382					1653										1520
B2619-(40M)V	607	1088	382					1695										1535
B2619-(50M)V	667	1088	420					1755										1570
B2719-(8M)V	391	1349	273					1740										2520
B2719-(10M)V	429	1349	273					1778										2530
B2719-(15M)V	501	1349	334					1850										2570
B2719-(20M)V	546	1349	334	1160	1020	900	60	1895	355	8	39	10	180	330	45 x 25 x 330	M30	52	2580
B2719-(25M)V	566	1349	382					1915										2660
B2719-(30M)V	566	1349	382					1915										2660
B2719-(40M)V	601	1349	382					1950										2670
B2719-(50M)V	661	1349	420					2010										2710
A904-(2M)V	301	682	199					983										415
A904-(3M)V	331	682	225	580	520	455	35	1013	190	12	22	8	110	170	28 x 18 x155	M20	34	425
A904-(5M)V	325	682	230					1007										435
A904-(8M)V	357	682	275					1039										450
A906-(8M)V	346	705	275					1051										475
A906-(10M)V	384	705	275	580	520	455	35	1089	190	12	22	8	110	170	28 x 18 x155	M20	34	490
A906-(15M)V	462	705	316					1167										515
A916-(3M)V	331	805	225					1136										585
A916-(5M)V	335	805	230	650	590	520	40	1140	247	12	22	10	120	210	32 x 20 x195	M24	42	595
A916-(8M)V	346	805	275					1151										610
A916-(10M)V	384	805	275					1189										625
A917-(10M)V	401	812	275					1213										650
A917-(15M)V	462	812	316	650	590	520	40	1274	247	12	22	10	120	210	32 x 20 x195	M24	42	675
A917-(20M)V	506	812	316					1318										695
A928-(5M)V	337	1020	230					1357										1150
A928-(8M)V	363	1020	275					1383										1170
A928-(10M)V	401	1020	275	880	800	680	50	1421	252	12	33	10	140	250	35 x 22 x 230	M30	52	1190
A928-(15M)V	467	1020	316					1487										1210
A928-(20M)V	511	1020	316					1531										1230
A928-(30M)V	602	1020	364					1622										1300

INTEGRAL GEARMOTOR - MF

1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.

INCH SHAFT - SINGLE STAGE



B07-MF ~ B12-MF — Dim. in mm

B13-MF ~ B17-MF — Dim. in inch

FRAME SIZE	A	B	DM	B1	DC	M	K	S1	L	D2	d	N	Output Shaft D	Output Shaft l	Output Shaft Key	Output Shaft s	Output Shaft l2	Wt (lb)
B07-(1/8M)F	92	218	144	75	110	69	32	27	310	98	7	6	.500	0.98	1/8 x 1/8 x .79	M6	12	18
B08-(1/8M)F	98	218	144						316									20
B08-(1/4M)F	98	218	144	80	110	75	32	26	316	98	7	6	.750	1.18	3/16 x 3/16 x 1.06	M6	12	29
B08-(1/2M)F	98	238	162						336									37
B09-(1/8M)F	157	218	144						375									37
B09-(1/4M)F	157	218	144	105	150	129	38	26	375	134	9	8	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	46
B09-(1/2M)F	157	238	162						395									35
B09-(1M)F	157	248	177						405									62
B10-(1/8M)F	171	204	144						375									42
B10-(1/4M)F	171	204	144						375									51
B10-(1/2M)F	171	224	162	105	150	129	56	27	395	134	9	8	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	62
B10-(1M)F	171	234	177						405									66
B10-(2M)F	171	270	200						441									86
B10-(3M)F	171	301	219						472									106
B11-(1/2M)F	186	244	162						430									86
B11-(1M)F	186	254	177						440									90
B11-(2M)F	186	287	200	140	204	139	61	28	473	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	110
B11-(3M)F	186	319	219						505									110
B11-(5M)F	186	349	238						535									157
B12-(1/2M)F	186	244	162						430									86
B12-(1M)F	186	254	177						440									90
B12-(2M)F	186	287	200	140	204	139	61	28	473	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	110
B12-(3M)F	186	319	219						505									110
B12-(5M)F	186	349	238						535									157
B13-(1M)F	240	250	177						490									132
B13-(2M)F	240	290	200						530									152
B13-(3M)F	240	320	219	165	230	177	75	30	560	205	11	6	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	172
B13-(5M)F	240	350	238						590									198
B13-(8M)F	240	395	273						635									238
B13-(10M)F	240	435	273						675									260
B14-(1M)F	260	250	177						510									137
B14-(2M)F	260	290	200						550									157
B14-(3M)F	260	320	219	165	230	197	75	30	580	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	176
B14-(5M)F	260	350	238						610									203
B14-(8M)F	260	395	273						655									243
B14-(10M)F	260	435	273						695									265
B15-(2M)F	260	290	220						550									159
B15-(3M)F	260	320	219						580									179
B15-(5M)F	260	350	238	165	230	197	75	30	610	205	11	6	1.875	3.54	1/2 x 1/2 x 2.95	M10	18	205
B15-(8M)F	260	395	273						655									245
B15-(10M)F	260	435	273						695									269
B15-(15M)F	260	460	334						720									397
B16-(2M)F	308	292	200						600									243
B16-(3M)F	308	322	219						630									265
B16-(5M)F	308	352	238						660									291
B16-(8M)F	308	397	273	200	318	222	102	40	705	270	14	6	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	331
B16-(10M)F	308	437	273						745									357
B16-(15M)F	308	462	334						770									452
B16-(20M)F	308	507	334						815									507
B17-(3M)F	352	323	219						675									359
B17-(5M)F	352	353	238						705									381
B17-(8M)F	352	398	273						750									419
B17-(10M)F	352	436	273	250	362	262	110	45	788	300	15	8	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	448
B17-(15M)F	352	508	334						860									540
B17-(20M)F	352	553	334						905									591
B17-(25M)F	352	573	382						925									739
B17-(30M)F	352	573	382						925									739

INTEGRAL GEARMOTOR - MF

1 inch = 25.4 mm
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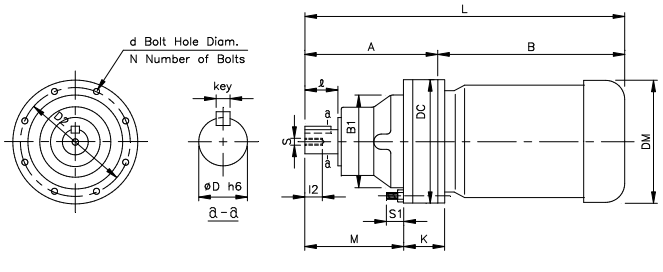
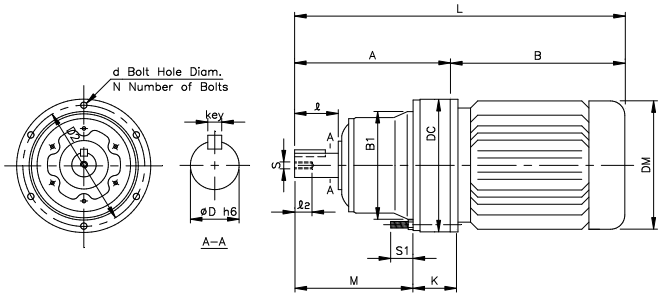
METRIC SHAFT - SINGLE STAGE





B07-MF ~ B12-MF — Dim. in mm

B13-MF ~ B17-MF — Dim. in mm

FRAME SIZE	A	B	DM	B1	DC	M	K	S1	L	D2	d	N	Output Shaft D	Output Shaft l	Output Shaft Key	Output Shaft s	Output Shaft l2	Wt (kg)
B07-(1/8M)F	92	218	144	75	110	69	32	27	310	98	7	6	14	25	5 x 5 x 20	M6	12	8
B08-(1/8M)F	98	218	144						316									9
B08-(1/4M)F	98	218	144	80	110	75	32	26	316	98	7	6	18	30	6 x 6 x 25	M6	12	13
B08-(1/2M)F	98	238	162						336									17
B09-(1/8M)F	157	218	144						375									17
B09-(1/4M)F	157	218	144	105	150	129	38	26	375	134	9	8	28	50	8 x 7 x 32	M8	18	21
B09-(1/2M)F	157	238	162						395									16
B09-(1M)F	157	248	177						405									28
B10-(1/8M)F	171	204	144						375									19
B10-(1/4M)F	171	204	144						375									23
B10-(1/2M)F	171	224	162	105	150	129	56	27	395	134	9	8	28	50	8 x 7 x 32	M8	18	28
B10-(1M)F	171	234	177						405									30
B10-(2M)F	171	270	200						441									39
B10-(3M)F	171	301	219						472									48
B11-(1/2M)F	186	244	162						430									39
B11-(1M)F	186	254	177						440									41
B11-(2M)F	186	287	200	140	204	139	61	28	473	180	11	6	38	55	10 x 8 x 50	M10	18	50
B11-(3M)F	186	319	219						505									50
B11-(5M)F	186	349	238						535									71
B12-(1/2M)F	186	244	162						430									39
B12-(1M)F	186	254	177						440									41
B12-(2M)F	186	287	200	140	204	139	61	28	473	180	11	6	38	55	10 x 8 x 50	M10	18	50
B12-(3M)F	186	319	219						505									50
B12-(5M)F	186	349	238						535									71
B13-(1M)F	240	250	177						490									60
B13-(2M)F	240	290	200						530									69
B13-(3M)F	240	320	219	165	230	177	75	30	560	205	11	6	50	70	14 x 9 x 56	M10	18	78
B13-(5M)F	240	350	238						590									90
B13-(8M)F	240	395	273						635									108
B13-(10M)F	240	435	273						675									118
B14-(1M)F	260	250	177						510									62
B14-(2M)F	260	290	200						550									71
B14-(3M)F	260	320	219	165	230	197	75	30	580	205	11	6	50	90	14 x 9 x 80	M10	18	80
B14-(5M)F	260	350	238						610									92
B14-(8M)F	260	395	273						655									110
B14-(10M)F	260	435	273						695									120
B15-(2M)F	260	290	220						550									72
B15-(3M)F	260	320	219						580									81
B15-(5M)F	260	350	238	165	230	197	75	30	610	205	11	6	50	90	14 x 9 x 80	M10	18	93
B15-(8M)F	260	395	273						655									111
B15-(10M)F	260	435	273						695									122
B15-(15M)F	260	460	334						720									180
B16-(2M)F	308	292	200						600									110
B16-(3M)F	308	322	219						630									120
B16-(5M)F	308	352	238						660									132
B16-(8M)F	308	397	273	200	318	222	102	40	705	270	14	6	60	90	18 x 11 x 80	M10	18	150
B16-(10M)F	308	437	273						745									162
B16-(15M)F	308	462	334						770									205
B16-(20M)F	308	507	334						815									230
B17-(3M)F	352	323	219						675									163
B17-(5M)F	352	353	238						705									173
B17-(8M)F	352	398	273						750									190
B17-(10M)F	352	436	273	250	362	262	110	45	788	300	15	8	70	90	20 x 12 x 80	M12	24	203
B17-(15M)F	352	508	334						860									245
B17-(20M)F	352	553	334						905									268
B17-(25M)F	352	573	382						925									335
B17-(30M)F	352	573	382						925									335

INTEGRAL GEARMOTOR - MF

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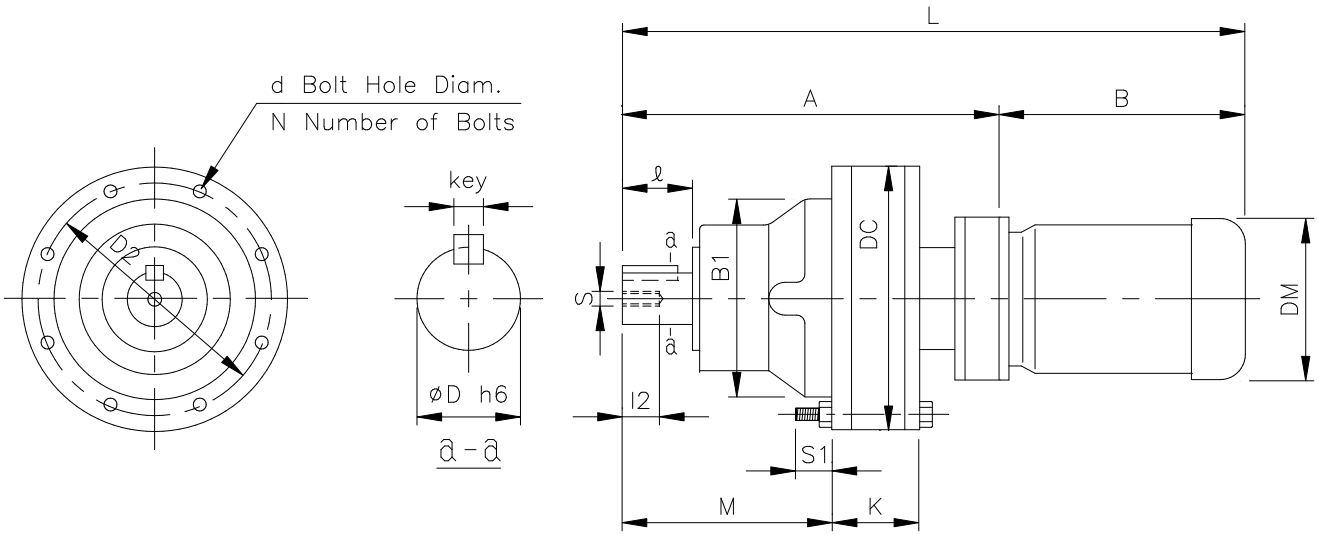
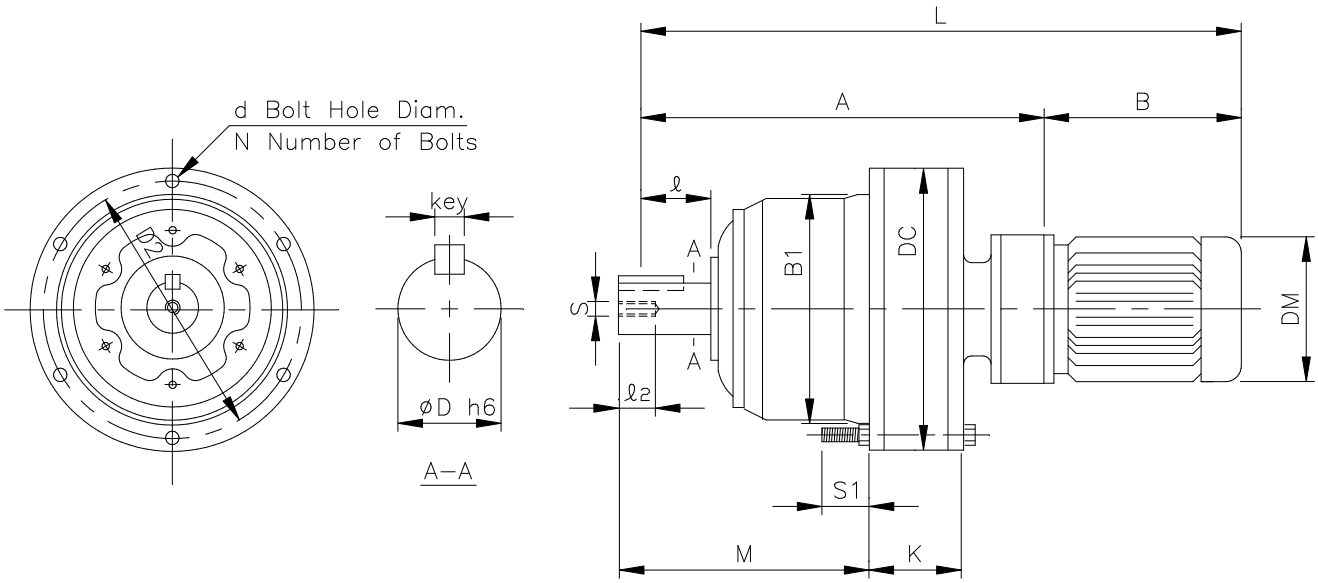
INCH SHAFT - DOUBLE STAGE



B0707-MF ~ B1109-MF

Dim. in mm | Dim. in inch

FRAME SIZE	A	B	DM	B1	DC	M	K	S1	L	D2	d	N	Output Shaft D	Output Shaft l	Output Shaft Key	Output Shaft s	Output Shaft l2	Wt (lb)
B0707-(1/8M)F	125	200	130	75	110	69	32	27	325	98	7	6	.500	0.98	1/8 x 1/8 x .79	M6	12	20
B0807-(1/8M)F	131	200	130	80	110	75	32	26	331	98	7	6	.750	1.18	3/16 x 3/16 x 1.06	M6	12	22
B0908-(1/8M)F	205	200	130	105	150	129	38	26	405	134	9	8	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	37
B0908-(1/4M)F	205	218	144	105	150	129	38	26	423	134	9	8	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	40
B1008-(1/8M)F	219	200	130	105	150	129	56	27	419	134	9	8	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	42
B1008-(1/4M)F	219	218	144	105	150	129	56	27	437	134	9	8	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	44
B1008-(1/2M)F	219	238	162	105	150	129	56	27	457	134	9	8	1.125	1.97	1/4 x 1/4 x 1.18	M8	18	49
B1109-(1/8M)F	252	200	130	140	204	139	61	28	452	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	66
B1109-(1/4M)F	252	218	144	140	204	139	61	28	470	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	79
B1109-(1/2M)F	252	238	162	140	204	139	61	28	490	180	11	6	1.500	2.17	3/8 x 3/8 x 1.77	M10	18	84
B1310-(1M)F	317	248	177	165	230	177	75	30	565	205	11	6	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	121
B1310-(2M)F	317	285	200	165	230	177	75	30	602	205	11	6	1.875	2.76	1/2 x 1/2 x 2.17	M10	18	130
B1409-(1/4M)F	323	218	144	165	230	197	75	30	541	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	108
B1409-(1/2M)F	323	238	162	165	230	197	75	30	561	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	112
B1409-(1M)F	323	248	177	165	230	197	75	30	571	205	11	6	1.875	3.54	1/2 x 1/2 x 2.17	M10	18	117
B1611-(3M)F	389	316	219	200	318	222	102	40	705	270	14	6	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	243
B1611-(5M)F	389	346	238	200	318	222	102	40	735	270	14	6	2.250	3.54	1/2 x 1/2 x 2.95	M10	18	282
B1711-(3M)F	436	317	219	250	362	262	110	45	753	300	15	8	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	320
B1711-(5M)F	436	347	238	250	362	262	110	45	783	300	15	8	2.750	3.54	5/8 x 5/8 x 3.15	M12	24	359



B1310-MF ~ B1711-MF

INTEGRAL GEARMOTOR - MF

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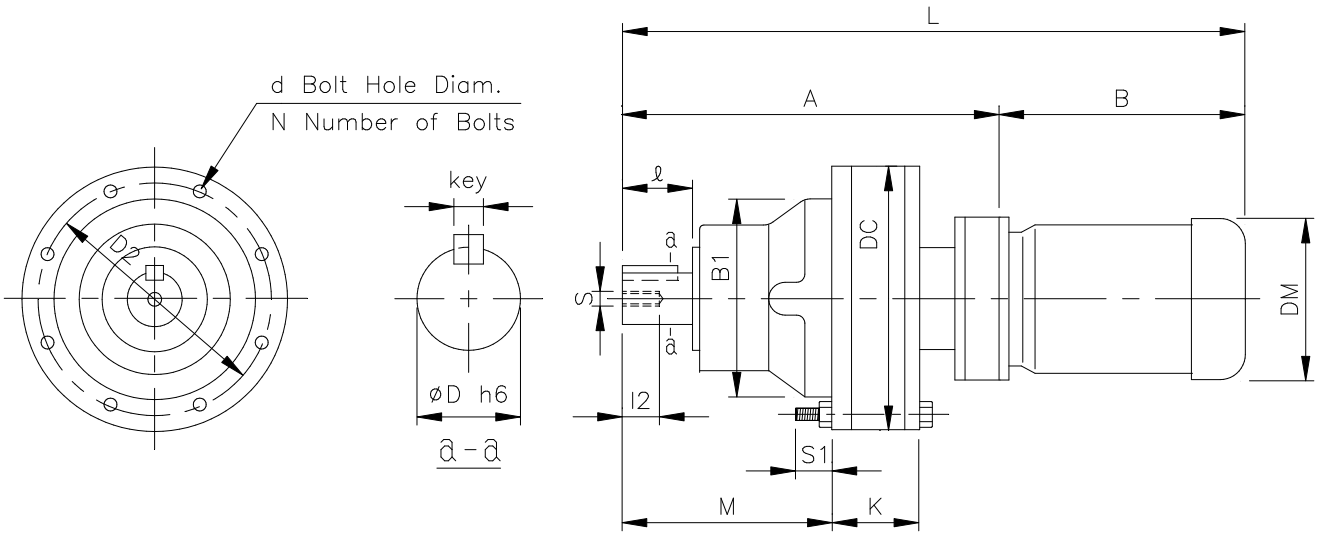
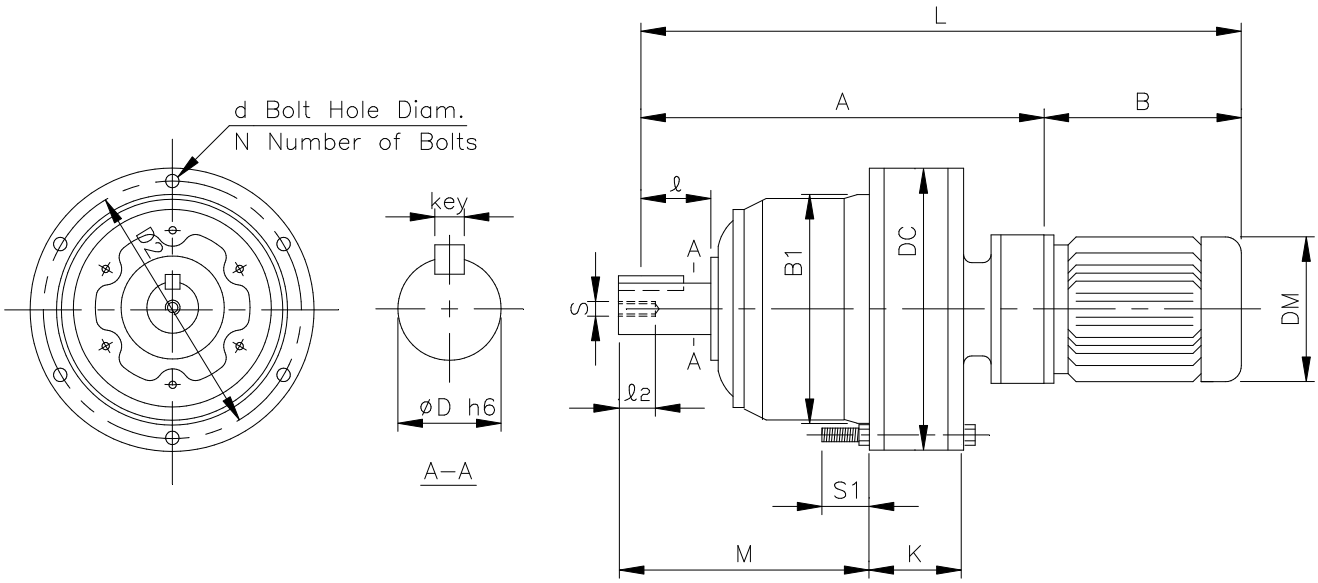
METRIC SHAFT - DOUBLE STAGE



B0707-MF ~ B1109-MF

Dim. in mm | Dim. in mm

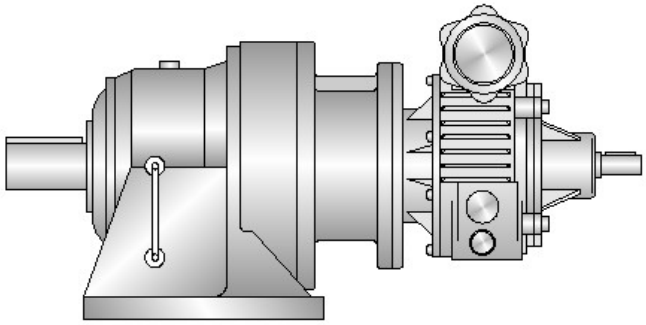
FRAME SIZE	A	B	DM	B1	DC	M	K	S1	L	D2	d	N	Output Shaft D	Output Shaft l	Output Shaft Key	Output Shaft s	Output Shaft l2	Wt (kg)
B0707-(1/8M)F	125	200	130	75	110	69	32	27	325	98	7	6	14	25	5 x 5 x 20	M6	12	9
B0807-(1/8M)F	131	200	130	80	110	75	32	26	331	98	7	6	18	30	6 x 6 x 25	M6	12	10
B0908-(1/8M)F	205	200	130	105	150	129	38	26	405	134	9	8	28	50	8 x 7 x 32	M8	18	17
B0908-(1/4M)F	205	218	144	105	150	129	38	26	423	134	9	8	28	50	8 x 7 x 32	M8	18	18
B1008-(1/8M)F	219	200	130	105	150	129	56	27	419	134	9	8	28	50	8 x 7 x 32	M8	18	19
B1008-(1/4M)F	219	218	144	105	150	129	56	27	437	134	9	8	28	50	8 x 7 x 32	M8	18	20
B1008-(1/2M)F	219	238	162	105	150	129	56	27	457	134	9	8	28	50	8 x 7 x 32	M8	18	22
B1109-(1/8M)F	252	200	130	140	204	139	61	28	452	180	11	6	38	55	10 x 8 x 50	M10	18	30
B1109-(1/4M)F	252	218	144	140	204	139	61	28	470	180	11	6	38	55	10 x 8 x 50	M10	18	36
B1109-(1/2M)F	252	238	162	140	204	139	61	28	490	180	11	6	38	55	10 x 8 x 50	M10	18	38
B1310-(1M)F	317	248	177	165	230	177	75	30	565	205	11	6	50	70	14 x 9 x 56	M10	18	55
B1310-(2M)F	317	285	200	165	230	177	75	30	602	205	11	6	50	70	14 x 9 x 56	M10	18	59
B1409-(1/4M)F	323	218	144	165	230	197	75	30	541	205	11	6	50	90	14 x 9 x 80	M10	18	49
B1409-(1/2M)F	323	238	162	165	230	197	75	30	561	205	11	6	50	90	14 x 9 x 80	M10	18	51
B1409-(1M)F	323	248	177	165	230	197	75	30	571	205	11	6	50	90	14 x 9 x 80	M10	18	53
B1611-(3M)F	389	316	219	200	318	222	102	40	705	270	14	6	60	90	18 x 11 x 80	M10	18	110
B1611-(5M)F	389	346	238	200	318	222	102	40	735	270	14	6	60	90	18 x 11 x 80	M10	18	128
B1711-(3M)F	436	317	219	250	362	262	110	45	753	300	15	8	70	90	20 x 12 x 80	M12	24	145
B1711-(5M)F	436	347	238	250	362	262	110	45	783	300	15	8	70	90	20 x 12 x 80	M12	24	163



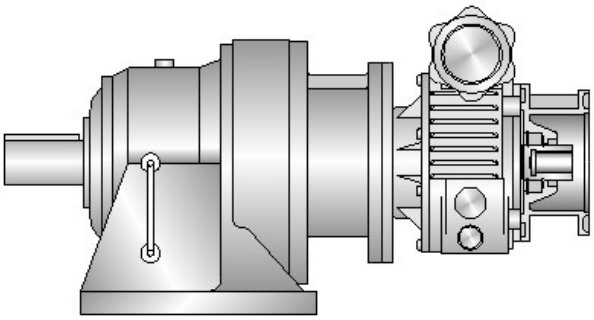
B1310-MF ~ B1711-MF

REDUCER w/ Variator Input - DH__

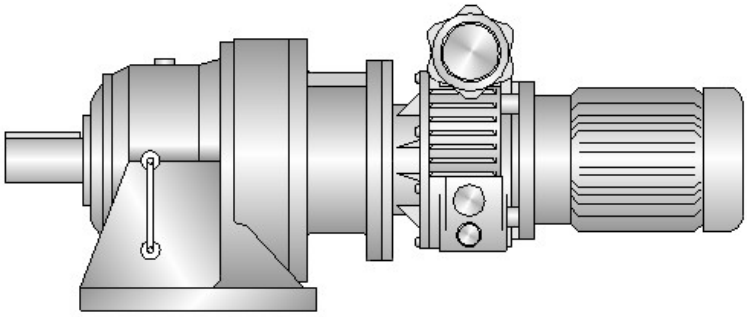
1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.



Variator w/ Free Input Shaft - _AC



Variator w/ Quill Style NEMA C-Face Input - _ACQ



Variator w/ Integral Gearmotor Input - _ACM

‣ The NEMA C-Face output of the DISCO Variator is easily adapted with the quill style c-face input of the DARALI® DRIVES Cycloidal Reducer.

‣ Simple installation and handling w/ concentric configuration. Eliminates tall cumbersome drive package. Low profile allows it to fit into tight space.

‣ Diversified input options include 1). Free Input Shaft 2). Quill Style C-Face Input 3). Integral Gearmotor.

‣ Wide range of horse power ratings from 1/4 hp to 10 hp.

‣ Together with the 6X variation range of the DARALI® DISCO Variator, you can enjoy the speed variation range between 9:1~54:1 to 130.5:1~783:1 on a single stage of DARALI® DRIVES Cycloidal Reducer. By utilizing double stage DARALI® DRIVES Cycloidal Reducer, you may apply this reducer/variator combination up to 11353.5:1~68121:1 reduction variation range.

‣ DARALI® DISCO Variators deliver high torque at low speeds. In addition, the motor is always running at full speed; you will always enjoy maximum ventilating effect.

‣ The DARALI® DISCO VARIATOR is an all mechanical speed variator that is inherently explosion-proof. Just add an explosion proof motor, and you can have adjustable speed operation in an explosive environment.

Reducer Frame Size	Variator Hp	Part Number Suffix		
		Free Input	Quill Input	Gearmotor
B09	1/4	02AC	02ACQ	02ACM
B09	1/2	05AC	05ACQ	05ACM
B10	1/2	05AC	05ACQ	05ACM
B10	1	1AC	1ACQ	1ACM
B11	1	1AC	1ACQ	1ACM
B11	2	2AC	2ACQ	2ACM
B13	2	2AC	2ACQ	2ACM
B13	3	3AC	3ACQ	3ACM
B13	5	5AC	5ACQ	5ACM
B14	3	3AC	3ACQ	3ACM
B14	5	5AC	5ACQ	5ACM
B16	3	3AC	3ACQ	3ACM
B16	5	5AC	5ACQ	5ACM
B16	7.5	8AC	8ACQ	8ACM
B16	10	10AC	10ACQ	10ACM

- Use **Part Number Suffix** above to construct the part number for speed reducer with variator input.

EXAMPLE:

B13-87:1-DHH-2AC (variator input w/ free input shaft)

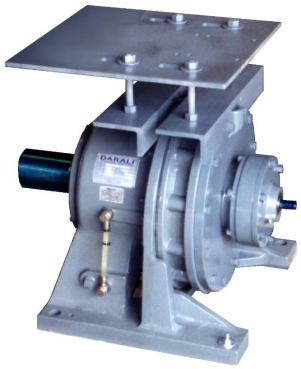
B13-87:1-DHH-2ACQ (variator input w/ quill style input)

B13-87:1-DHH-2ACM (variator input w/ integral gearmotor)

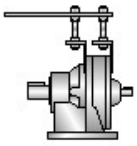
All three part numbers above have 2 hp variator input with various input styles on the variator.

REDUCER w/ NEMA Top Motor Mount - TH__

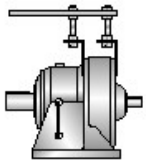
1 inch = 25.4 mm
All dimensions listed are for reference only.
Contact factory for certified dimensions.



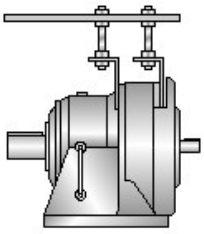
- Constructed with heavy gauge steel for excellent structural integrity.
- Multiple sets of pre-drilled mounting holes on the top plate for versatile installation of different NEMA T-Frame motors.
- Fully threaded studs for simple belt tensioning adjustment.
- When utilized together with the V-type reducers, it can also be used as the side motor mount.



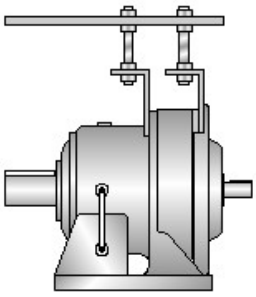
B11-TH ~ B12-TH



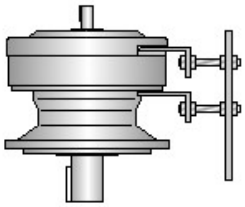
B13-TH ~ B15-TH



B16-TH ~ B18-TH



B19-TH

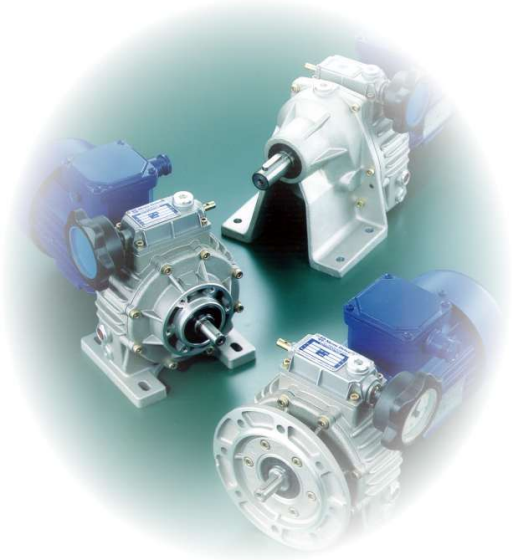


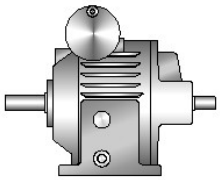
Side Mount When Being Used w/ V-Type Reducer

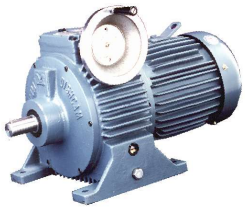
Reducer Frame Size	B11	B13	B14	B15	B16	B17	B18	B19
Top Mount	56	143 / 145	143 / 145	143 / 145	182 / 184	182 / 184	213 / 215	254 / 256
Motor	143 / 145	182 / 184	182 / 184	182 / 184	213 / 215	213 / 215	254 / 256	284 / 286
Frame Size	182 / 184	213 / 215	213 / 215	213 / 215	254 / 256	254 / 256	284 / 286	324 / 326

PRODUCT PREVIEW - DARALI® DISCO VARIATORS

Coming Soon !!







Coming Soon !!

Engineering Information

UNIT CONVERSIONS

1 inch = 25.4 mm	1 mm = 0.0394 in
1 lb = 0.4536 kg	1 kg = 2.2046 lb
1 lb = 4.448 N	1 N = 0.225 lb
1 in-lb = 0.01152 kg-m	1 kg-m = 86.8 in-lb
1 in-lb = 0.113 Nm	1 Nm = 8.85 in-lb
1 ft-lb = 0.1383 kg-m	1 kg-m = 7.233 ft-lb
1 hp = 0.745 kW	1 kW = 1.34 hp
$^oC = (^oF-32) \times 5/9$	$^oF = (^oC \times 9/5) + 32$
1 Gallon = 3.785 liter	1 liter = 0.264 Gallon

RULES OF THUMB

3-Phase Motor @ 550 Volts : 1 Amp per Hp
3-Phase Motor @ 460 Volts : 1.25 Amp per Hp
3-Phase Motor @ 230 Volts : 2.5 Amp per Hp

1 Hp @ 3450 rpm = 1.5 ft-lbs (18 in-lbs)
1 Hp @ 1750 rpm = 3 ft-lbs (36 in-lbs)
1 Hp @ 1170 rpm = 4.5 ft-lbs (54 in-lbs)
1 Hp @ 875 rpm = 6.0 ft-lbs (72 in-lbs)

FORMULA

$$Torque_{english} = \frac{63025 \times hp}{rpm} \text{ (in-lbs)}$$

$$Torque_{english} = \frac{5252 \times hp}{rpm} \text{ (ft-lbs)}$$

$$Torque_{metric} = \frac{974 \times kW}{rpm} \text{ (kg-m)}$$

$$HP = \frac{Force \times V}{33{,}000}, \text{ Force (lb) V (fpm)}$$

$$HP_{single\ \phi} = \frac{Volts \times Amps \times Pf \times \eta}{746}$$

$$HP_{dc\ motor} = \frac{Volts \times Amps \times Pf \times \eta}{746}$$

$$HP_{3\ \phi} = \frac{Volts \times Amps \times 1.73 \times Pf \times \eta}{746}$$

$$RPM = \frac{FPM}{0.262 \times diam_{in\ inch}}$$

$$RPM = \frac{120 \times Hz}{No.\ of\ Poles}$$

$$OHL = \frac{Torque}{Radius_{driver}}$$

$$OHL = \frac{126{,}000 \times hp \times OHL\ factors}{diam_{pitch} \times rpm}$$

DECIMAL AND METRIC EQUIVALENTS

inch			decimal	mm	inch			decimal	mm
		1/64	0.015625	0.397			33/64	0.515625	13.097
	1/32		0.03125	0.794		17/32		0.53125	13.494
		3/64	0.046875	1.191			35/64	0.546875	13.891
1/16			0.0625	1.588	9/16			0.5625	14.288
		5/64	0.078125	1.984			37/64	0.578125	14.684
	3/32		0.09375	2.381		19/32		0.59375	15.081
		7/64	0.109375	2.778			39/64	0.609375	15.478
1/8			0.125	3.175	5/8			0.625	15.875
		9/64	0.140625	3.572			41/64	0.640625	16.272
	5/32		0.15625	3.969		21/32		0.65625	16.669
		11/64	0.171875	4.366			43/64	0.671875	17.066
3/16			0.1875	4.763	11/16			0.6875	17.463
		13/94	0.203125	5.159			45/64	0.703125	17.859
	7/32		0.21875	5.556		23/32		0.71875	18.256
		15/64	0.234375	5.953			47/64	0.734375	18.653
1/4			0.250	6.350	3/4			0.750	19.050
		17/64	0.265625	6.747			49/64	0.765625	19.447
	9/32		0.28125	7.144		25/32		0.78125	19.844
		19/64	0.296875	7.541			51/64	0.796875	20.241
5/16			0.3125	7.938	13/16			0.8125	20.638
		21/64	0.328125	8.334			53/64	0.828125	21.034
	11/32		0.34375	8.731		27/32		0.84375	21.431
		23/64	0.359375	9.128			55/64	0.859375	21.828
3/8			0.375	9.525	7/8			0.875	22.225
		25/64	0.390625	9.922			57/64	0.890625	22.622
	13/32		0.40625	10.319		29/32		0.90625	23.019
		27/64	0.421875	10.716			59/64	0.921875	23.416
7/16			0.4375	11.113	15/16			0.9375	23.813
		29/64	0.453125	11.509			61/64	0.953125	24.209
	15/32		0.46875	11.906		31/32		0.96875	24.606
		31/64	0.484375	12.303			63/64	0.984375	25.003
1/2			0.500	12.700	1			1.000	25.400

MOTOR AMPS AT FULL LOAD

	A C				A C				A C				A C		
hp	Single Phase	Three Phase	DC	hp	Single Phase	Three Phase	DC	hp	Single Phase	Three Phase	DC	hp	Single Phase	Three Phase	DC
1/2	4.9	2.0	2.7	5	28	14.4	20	25	-	60	92	75	-	180	268
1	8	3.4	4.8	7 1/2	40	21	29	30	-	75	110	100	-	240	355
1 1/2	10	4.8	6.6	10	50	26	38	40	-	100	146	125	-	300	443
2	12	6.2	8.5	15	-	38	56	50	-	120	180	150	-	360	534
3	17	8.6	12.5	20	-	50	74	60	-	150	215	200	-	480	712

Photo Gallery

PRODUCTION CAPABILITY

DARALI® GROUP is currently engaged in the design and production of Cycloidal Speed Reducers as well as Mechanical Variable Speed Reducers. With our innovative engineering capabilities, we can quickly convert your application concept into production reality. With our flexible manufacturing capacity, your volume requirement will always be met in a timely and prompt manner. Experience the DARALI® difference !!

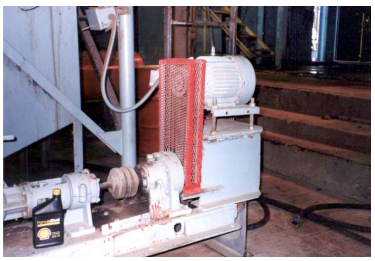


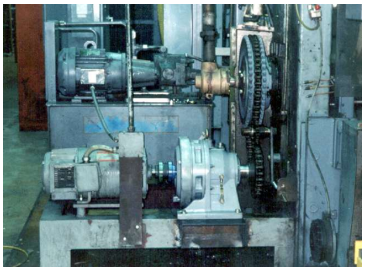
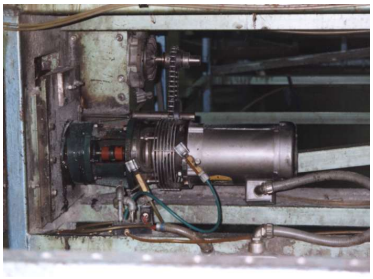



DIVERSIFIED APPLICATIONS

Besides handling the toughest applications competently, DARALI® Cycloidal Reducers can be seen in almost every industrial sector world-wide. Its 500% shock load capability, together with high efficiency, compactness, and diversified configurations, assures DARALI® Cycloidal Reducers to be the most appropriate selection for your power transmission needs. Contact us and let us show you how DARALI® DRIVES will meet your application needs.





DISTRIBUTOR TRAINING

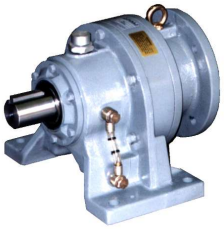
At DARALI® GROUP, we believe in the value of **STRONG DISTRIBUTION SUPPORT**. Besides providing you competitive pricing and delivery in both MRO and OEM markets, we also conduct distributor training at your facility. In order to make sure our training sessions do not interfere with your normal operation, we can schedule our meeting in either early morning or late afternoon. Your convenience is our utmost concern !



Photo Gallery

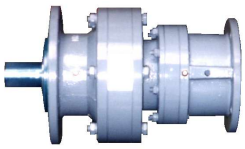
Diversified configurations to meet your versatile application needs

Think Cycloidal; Think DARALI® DRIVES !!

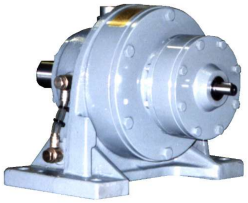


Single Stage - Foot Mount
Quill Style C-Face Input

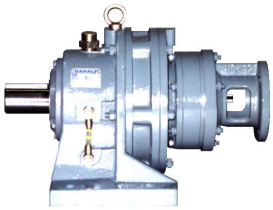
Double Stage - Foot Mount
Quill Style C-Face Input



Double Stage - Flange Mount
Quill Style C-Face Input

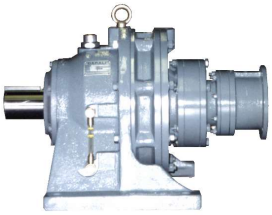


Double Stage - Foot Mount
Free Input Shaft

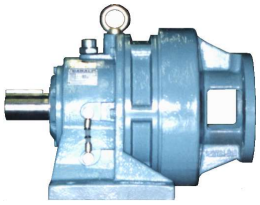


Double Stage - Foot Mount
Coupling Style C-Face Input

Double Stage - Foot Mount
Integral Gearmotor Input

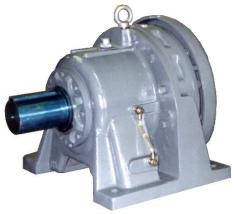


Triple Stage - Foot Mount
Quill Style C-Face Input



Single Stage - Foot Mount
Coupling Style C-Face Input

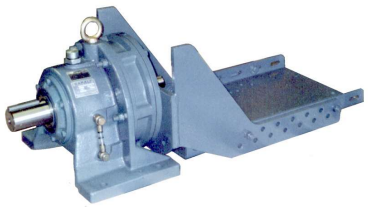
B1913-AHH Shown
Together w/ B08-XHH



Single Stage - Foot Mount
Free Input Shaft

Single Stage - Flange Mount
Free Input Shaft

Single Stage - Face Mount
Free Input Shaft

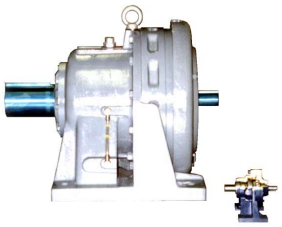


Single Stage - Foot Mount
Shovel Base Input

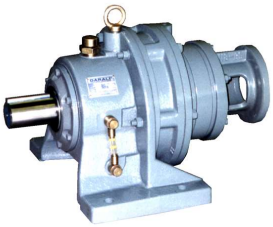
Single Stage - Foot Mount
N-Style Input

DISCO Variator

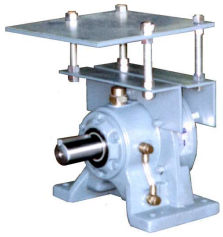
DISCO Variator w/
Integral Gearmotor Input



B21-XHH Shown
Together w/ B08-XHH



Double Stage - Foot Mount
Coupling Style C-Face Input



Single Stage - Foot Mount
Top Motor Mount Input

Single Stage - Foot Mount
Quill Style C-Face Input