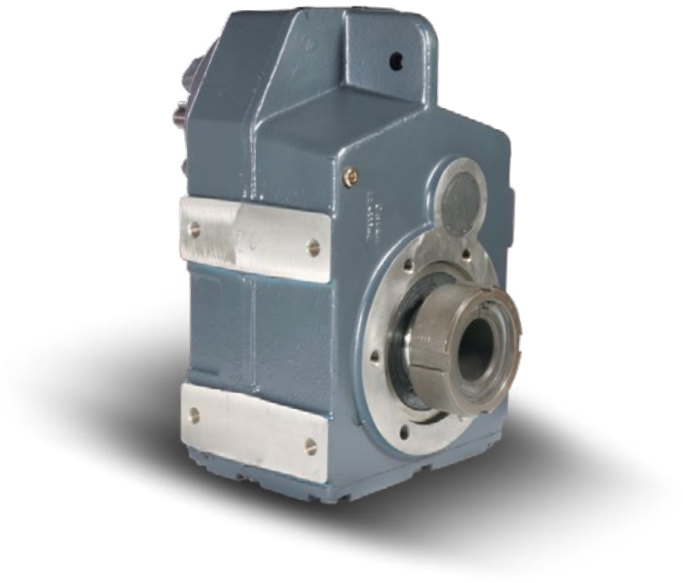
FALK®

PRODUCT CATALOG

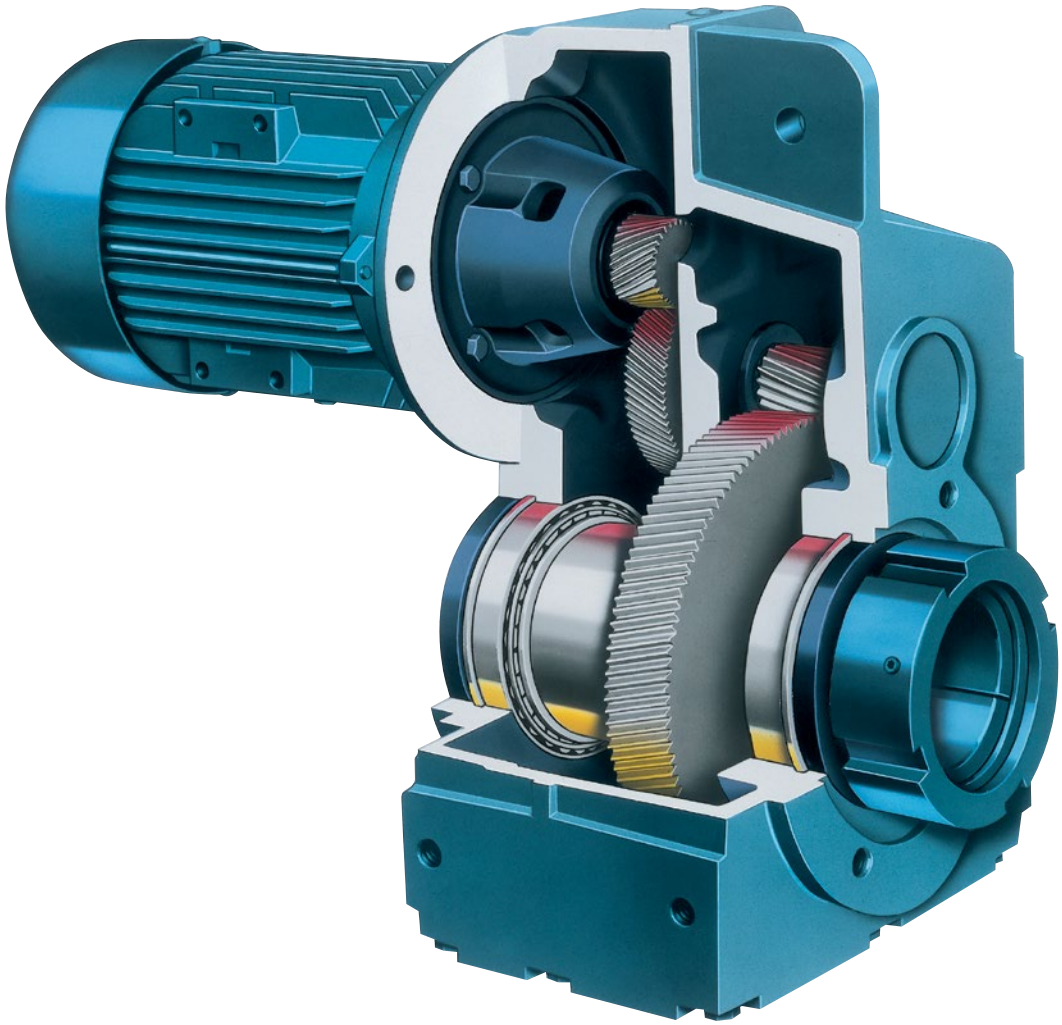
FALK® ULTRAMITE® UJ SHAFT-MOUNTED OFFSET HELICAL GEAR DRIVES

IMPERIAL (INCH)

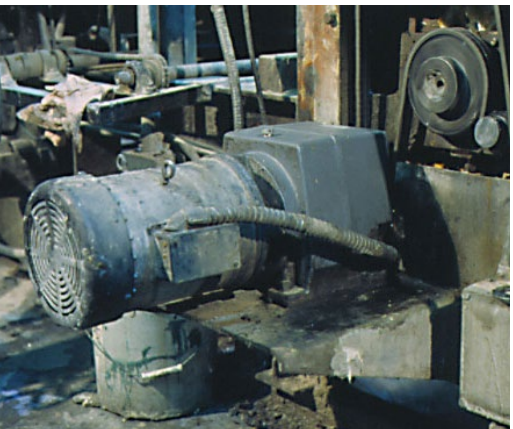


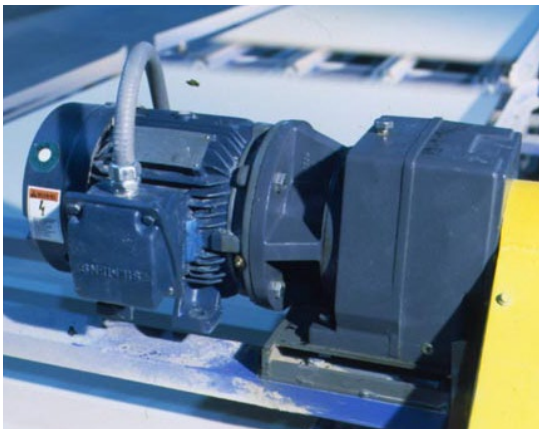
RegalRexnord™

Falk® Ultramite® UJ Shaft-Mounted Offset Helical Gear Drive



To learn more about the Falk Ultramite UJ Shaft-Mounted Offset Helical Gear Drive
and the rest of the Falk Ultramite family of products,
go to **www.regalrexnord.com**, where you'll find:
Product information • Brochures • Catalogs • Manuals
Contact us at **regalrexnord.com/contact**





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Safety Notes

Falk Gear Drives — The Falk and Regal Rexnord name on the gear drive is the purchaser's assurance that the drive was engineered, rated and manufactured to sound design practices.

The power supplied to the geared drive must be equal to or less than the power for which the drive was selected using the appropriate service factor for the application. The customer must also assume the responsibility of isolating the geared drive from any vibratory or transient load induced by the driven equipment.

Install and operate Regal Rexnord™ products in conformance with applicable local and national safety codes and per Regal Rexnord installation manuals which are shipped with gear drives and are also available upon request. Suitable guards for rotating members may be purchased from Regal Rexnord as optional accessories. Consult your local Regal Rexnord Representative for complete details.

People Conveying Equipment — Selection of Regal Rexnord gear drives for applications whose primary purpose is the transportation of people is not approved. This includes such applications as freight or passenger elevators, escalators, man lifts, work-lift platforms, and ski tows and ski lifts.

If the primary purpose of the application is material conveyance and occasionally people are transported, the Regal Rexnord warranty may remain in effect, provided the design and load conditions are not exceeded and certification to the appropriate safety codes and load conditions has been obtained by the system designer or end user from the appropriate enforcement authorities.

Gear Drive Ratings

All gear drive ratings in this catalog allow 100% overload for starting loads and momentary overloads for electric-motor-driven applications operating ten hours per day under uniform conditions. For other conditions, compute an equivalent horsepower by multiplying the actual horsepower required for the application by the appropriate service factor.

Gear Drive Identification — Tables in this catalog identify gear drives based on the drive nomenclature.

Horsepower & Torque/Gearmotor Drives — Gearmotor drive mechanical horsepower and delivered torque ratings are tabulated only at 1750 rpm. Horsepower, output torque and LSS OHL ratings for gearmotor drives do not always correspond to those of the comparable inline gear drive of the same size, reduction and ratio. In selected cases the gearmotor drive will have more rating than the corresponding inline gear drive. When additional rating for gearmotor drives at 1750 rpm input is available, it will be as stated in the Gearmotor Selection Tables. For gearmotor drive ratings at input speeds other than 1750 rpm, consult the Factory.

Horsepower & Torque/Gear Drives — Gear drive mechanical horsepower and output torque ratings are tabulated in the catalog to permit selections for specific application requirements. When the required input speed falls between two tabulated input speeds of a specific drive designation (size, reduction and ratio), interpolate to determine drive rating.

Lubricants — Drives can be supplied filled with oil when requested at time of order.

Stored & Inactive Gear Drives — Each gear drive is protected with rust preventive that will protect parts against rust for a period of 6 months in an indoor dry shelter.

Periodically inspect stored or inactive gear drives and spray or add rust inhibitor every six months, or more often if necessary. Indoor dry storage is recommended.

Gear drives ordered for extended storage can be treated at the Factory with a special preservative and sealed to rust-proof parts for periods longer than those cited previously.

Factory Warranty — Falk products generally carry a limited, one-year warranty against defects in materials or workmanship; but for an actual statement of the Factory Warranty, ask your local Regal Rexnord representative or Falk/Regal Rexnord distributor for our Standard Conditions of Sale.

Conditions Affecting Selections

Non-Standard Application Procedures

The following conditions may affect the gear drive selection procedure, drive size and auxiliary equipment being furnished.

Excessive Overloads — The maximum momentary or starting load must not exceed 200% of rated load (100% overload). Rated load is defined as gear drive rating with a service factor of 1.0. If the maximum starting or momentary load exceeds the above conditions, compute a second equivalent horsepower by dividing the peak load by two. The gear drive selected must have capacity equal to, or in excess of, the larger equivalent horsepower.

Reversing Service — Applications involving either more than 20 reversals per ten hour period, or less than 20 reversals per ten hour period with peak torques greater than 200% of normal load must be referred to Factory.

Stop and Start Service — Applications involving frequent stop and start overloads in access of ten times per day must be referred to Factory.

Brake-Equipped Applications — When a gear drive is equipped with a "working" brake that is used to decelerate the motion of the system and the brake is located between the prime mover and the gear drive or on the rear of the motor, select the drive based on the brake rating or the highest equivalent horsepower, whichever is greater. If the brake is used for holding only and is applied after the motion of the system has come to rest, the brake rating must be less than 200% of the catalog rating, refer the application to Factory. Also refer to Factory all applications in which the brake is located on the output shaft of the gear drive.

Oversize Prime Mover — Published service factors do not cover applications that require oversize prime movers for high-energy or peak loads. Refer such applications to Factory for selection of suitable drives.

Speed Variation — Gear drives offered in this catalog are designed to operate with splash lubrication at all speeds for which they are cataloged, provided the appropriate amount of lubricant is present based on the drive mounting position. (Refer to Manual Manual 288-300 for UJ drives for oil quantity associated with each gear drive mounting position.) Variation of speed between cataloged speeds, or at speeds falling between cataloged speeds, is permissible.

Lubrication of Sizes 06 & 07UJ — These sizes are furnished filled with a quantity of oil. Quantity of oil furnished is based on the customer-identified drive mounting position stated at the time of order. Standard drive mounting positions are shown in this catalog. These sizes have no oil fill plug, oil drain plug or vent plug. Standard oil furnished with the gear drive is a petroleum-based, extreme pressure lubricant, conforming to AGMA Viscosity Grade 6EP, ISO Viscosity Grade 320, and no further lubrication of the gear drive is required.

Variable or Multi-Speed Applications — All Types

When selecting gear drives for multi-speed or variable speed application, determine the speed which develops the greatest torque and select the drive on this basis. If the speed is not listed in the selection table, use the next lower speed.

Effects of Solar Energy — If a drive operates in the sun at ambient temperatures over 100°F, then special measures must be taken to protect the drive from solar energy. This protection can consist of a canopy over the drive or reflective paint on the drive. If neither is possible, a heat exchanger or other cooling device may be required.

Overhung Loads & Thrust Loads — The overhung load and thrust load ratings published in this catalog are based on a combination of the most unfavorable conditions of rotation, speed, direction of applied load and drive loading. If the calculated load exceeds the published value, or if an overhung load and thrust load are applied simultaneously to a shaft, refer complete application information to Factory.

Non-Standard Mounting Positions — For non-standard mounting positions (other than those shown in this catalog) refer to Factory for lubricant level and quantity.

Double Seal Option — Certain applications may dictate the use of double seals. This option, provided at an additional charge, is furnished as follows:

Gearmotors — A double seal is available only at the low-speed shaft.

Inline Drives — A double seal is furnished at both the high-speed and low-speed shafts.

General Information

- Regal Rexnord standards apply unless otherwise specified.
- All dimensions are for reference only and are subject to change without notice unless certified.
- H.S. Shaft or HSS = High-Speed Shaft.
- L.S. Shaft or LSS = Low-Speed Shaft.

Reference Notes

- Dimensions are for reference only and will vary with motor manufacturer.
- For higher ratio selections, consult the Factory.
- Check thermal input hp ratings. Selection tables are based on mechanical input hp ratings only.

UJ — How to Select and Order Gearmotors

NOTE: Before making any selections, refer to the Falk® Ultramite® Basic Information and Conditions Affecting Selections on pages 4 and 5.

Selection of Shaft-Mounted Gearmotors

1. Determine Service Factor — See pages 9 and 10.
2. Determine Motor Horsepower.
3. Determine Gearmotor Output Speed and Ratio.
4. Gearmotor Selection Tables are included on pages 15-24. These tables assume a motor base speed of 1750 rpm. For ratings at other motor base speeds, consult your authorized Regal Rexnord sales representative.

   Go to the page that contains selections based on the specific C-face motor you will be using. For example, selections for 0.50 hp, 1750 rpm, 56C frame motors are tabulated on page 16.

   Starting at the top of the first selection page pertinent to your motor requirement, move down the selections until a gearmotor meeting your output speed, ratio, reduction and service factor requirements is located.

   For example consider an application with a 1 hp, 1750 rpm/143TC frame motor, output speed of 45 rpm, nominal ratio of 40:1, and a required service factor of 2.00.

   Selections for a 1 hp, 1750 rpm/143TC frame motor are on page 17.

   The gearmotor 04UJAJ2A40.A_B has an output speed of 45 rpm, exact ratio of 38.72:1 and a service factor of 2.40 which meets our requirements.

   Choose your required accessories and record the full nomenclature and part number.
5. Check Overhung Load — Permissible low-speed shaft overhung load capacities are provided on page 37. If overhung load is present, calculate the value of the overhung load per instructions on page 36. Sprockets or other devices mounted on the output shaft of the gearmotor should be sized and positioned so the gearmotor overhung load capacities are not exceeded. Should applied overhung loads exceed the capacity of the initial gearmotor selected, a larger gearmotor of adequate capacity must be selected.
6. Check External Thrust Load — Permissible thrust loads are provided on page 37. If thrust and overhung loads are applied simultaneously, or if loads exceed stated thrust capacities, consult your authorized Regal Rexnord sales representative.
7. Check Gearmotor Dimensions — pages 25-35.
8. When ordering, provide the gear drive mounting position from page 12. If a mounted motor is ordered, specify motor mounting position, also from page 12.

Example

Application: Belt conveyor, heavy-duty, head shaft speed is 22 rpm, shaft mounted drive configuration is specified.

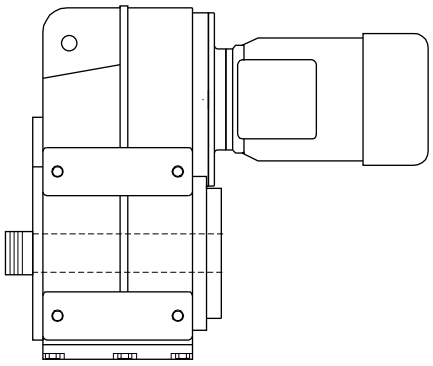
Duty Cycle: 16 hours per day.

Driver: 2 hp electric motor, 1750 rpm, 145TC frame.

Output: Head shaft diameter is 2.00". Approximate ratio required is 90:1.

1. Service factor from page 10 is 1.50.
2. Motor horsepower is 2 hp.
3. From selection table on page 19, the appropriate gearmotor is the Size 07UJAJ2A90.A_B, part number 4762137, exact ratio 84.78:1 and a 1.75 service factor.
4. Confirm the availability of a Size 07 TA taper bushing with a 2.00" bore from page 31.
5. Check overhung load capacity on page 37 — For this example there is no overhung load.
6. Check external thrust load capacity on page 37 — For this example there is no external thrust.
7. Check dimensions on page 25 or 29.
8. Specify drive mounting position and motor mounting position (if mounted motor is requested) from page 12 — For our example, the gearmotor is mounted in drive mounting position #1.

   Regarding mounting of NEMA C-face motors, the most common motor mounting position is “C”, with the nameplate upward and the conduit box wiring hole down.



UJ — How to Select and Order Gear Drives

NOTE: Before making any selections, refer to the Falk® Ultramite® Basic Information and Conditions Affecting Selections on pages 4 and 5.

Selection of Shaft-Mounted Gear Drives

1. Determine Service Factor — See pages 9 and 10.
2. Determine Equivalent Horsepower — Calculate the equivalent hp by multiplying the motor hp by the service factor.
3. Determine Gear Drive Output Speed and Ratio.
4. Gear Drive Selection tables are included on pages 39-42.

   Go to the page that contains selections based on your required input speed for the gear drive. For example, selections based an input speed of 1750 rpm are shown on page 40.

   Locate the table containing your required ratio, reduction and low-speed shaft rpm and select the drive size with a mechanical rating equal to or exceeding your equivalent horsepower requirement.

   Having selected an gear drive size meeting your ratio, reduction and equivalent hp requirements, obtain nomenclature, exact ratio and Falk part number from page 43.
5. Check Overhung Load — Tables on page 37 provide the overhung capacity of the gear drive selected. If overhung load is present, calculate the value of the overhung load per instructions on page 36. Sprockets or other devices mounted on the input or output shaft of the gear drive, should be sized and positioned so the overhung load capacities are not exceeded. If applied overhung loads exceed the capacity of the initial gear drive selected, a larger gear drive of adequate capacity must be selected.
6. Check External Thrust Load — Permissible thrust loads are provided on page 37. If thrust and overhung loads are applied simultaneously, or if loads exceed stated thrust capacities, consult your authorized Regal Rexnord sales representative.
7. Check Gear Drive Dimensions — pages 44-48.
8. When ordering, provide the drive mounting position from page 12.

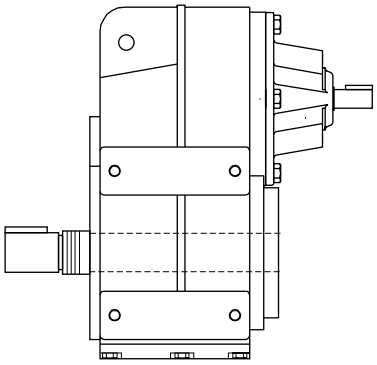
Example

Application: Belt conveyor, heavy-duty, head shaft speed is approximately 30 rpm, gear drive to be base-foot-mounted.

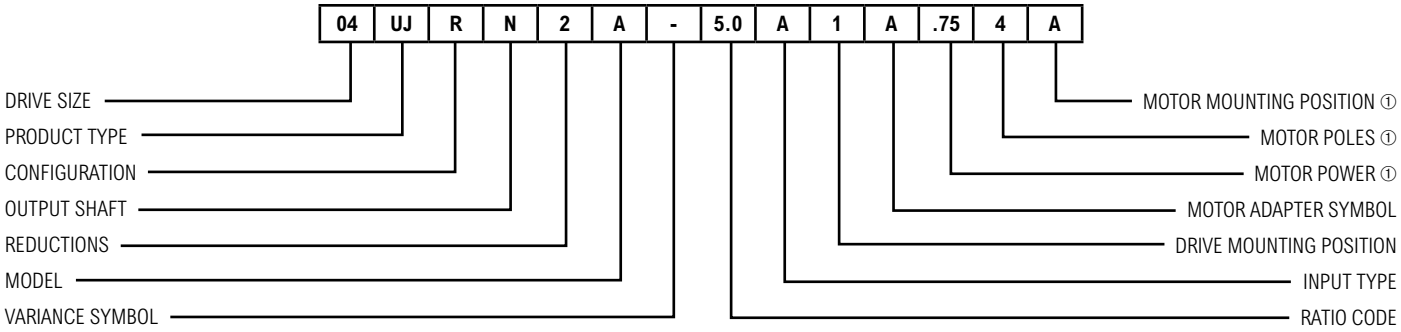
Duty Cycle: 16 hours per day.

Driver: 2 hp electric motor, 1750 rpm.

1. Service factor from page 10 is 1.50.
2. Equivalent horsepower is 2 x 1.5 = 3 hp.
3. Approximate gear drive ratio is 58:1.
4. From selection table on page 39, the appropriate gear drive exceeding required equivalent hp of 3 hp is the Size 06UJ with a rating of 3.60 hp and a service factor of 1.80 (3.60 hp ÷ 2 hp). Complete designation of the gear drive is obtained from page 53 and is 06UJAJ2A56.N_, exact ratio 56.34:1, and part number 4762005.
5. Overhung load capacity on page 37 – For this example there is no overhung load.
6. Check external thrust load capacity on page 37 — For this example there is no external thrust.
7. Check dimensions on pages 46-48.
8. Specify gear drive mounting position from page 12 — For our example, the gear drive is mounted in mounting position #1.
9. Add appropriate accessories. Our example requires base-mounted feet and an output shaft kit.



UJ — Drive Nomenclature



Drive Sizes

04, 06 & 07

Product Type

UJ — Shaft-Mounted Offset Helical

Configuration

A — Basic Drive (No Feet, No Torque Arm)
D — Side Mounted Feet Left (Looking at LSS Bushing End)
E — Side Mounted Feet Right (Looking at LSS Bushing End)
F — Standard Output Flange
R — With Torque Arm

Output Shaft

J — Tapered Hollow
M — TA Taper Metric Bushing (Bore Diameter)
N — TA Taper Inch Bushing (Bore Diameter)

Reductions

2 — Double
3 — Triple
4 — Quadruple

Model

A, B, C, etc.

Variance Symbol

Variance Symbol is omitted when Standard Mineral Lube and Single Seals are specified

A — Standard Mineral Lube and Double Seals
B — Synthetic Lube and Single Seals
C — Biodegradeable Lube and Single Seals
D — Food Compatible Lube and Single Seals
S — Special
H — Backstop (Hold Back)
J — Cooling Fan - Shaft-Driven
S — Multiple Variances or Special

Ratio Code, Three Characters, refer to page 11

5.0 through 100	Double Reduction	
83. through 355	Triple Reduction	
360 through 56C	Quadruple Reduction	C = 00

Input Type

A — Gear Drive with Flange Motor Adapter - NEMA Frame
G — Gear Drive with Flange Motor Adapter - IEC Frame
N — Gear Drive with Inch Input
C — Gear Drive with Metric Input
R — Gear Drive with Flange Motor Adapter - Special Motors

Drive Mounting Position, refer to page 12

Mounting Positions 1 through 6

Motor Adapter Symbol, refer to page 13

A through W

Motor Power, Decimal Point Shown ①

Horsepower – NEMA Motor

Kilowatts – IEC Motor

Motor Poles ①

2 — Poles, 3600 rpm @ 60 Hz, or 3000 rpm @ 50 Hz
4 — Poles, 1800 rpm @ 60 Hz, or 1500 rpm @ 50 Hz
6 — Poles, 1200 rpm @ 60 Hz, or 1000 rpm @ 50 Hz
8 — Poles, 900 rpm @ 60 Hz, or 750 rpm @ 50 Hz

Motor Mounting Position, refer to page 12 ①

When viewed from L.S. Shaft of Base-Mounted Drive with Mounting Feet Down

A — Conduit Box Horizontal on Right Side, 0°
B — Conduit Box Vertical on Bottom Side, 90°
C — Conduit Box Horizontal on Left Side, 180°
D — Conduit Box Vertical on Top Side of Drive 270°

① Motor Power, Motor Poles and Motor Mounting Position are stamped on the nameplate only if the motor is furnished and fitted by the Factory.

Service Factors

A gear drive is rated to a specified application by the use of Service Factors. Each application has its own conditions and operating requirements. These have been analyzed and cataloged. Numerical values, based on field experience, have been assigned to these classifications for intermittent service of 3 to 10 hours per day and for service over 10 hours per day and also for the type of prime mover ... electric motor or engine. Values for most applications are listed by application on page 10, Table 3 and by industry at right, Table 2.

Examples — A comparison of three different applications, each operating 16 hours per day, will illustrate the function of Service Factors: an Assembly Conveyor, uniformly-loaded (SF = 1.25), a Belt Conveyor, heavy-duty (SF = 1.50) and a Laundry Washer (SF = 2.00). If each of these applications requires 10 hp, each drive is selected for a rating of 10 hp times the Service Factor — that is, for 12.5, 15 and 20 hp respectively. Thus, the Service Factor takes into consideration the varying conditions of operation: Laundry Washer service is relatively more severe than that of a uniformly-loaded Assembly Conveyor, etc.

Application	Service	
	3 to 10 Hour	Over 10 Hour
ASSEMBLY CONVEYORS		
Uniformly-Loaded or Fed	1.25	1.25
BELT CONVEYORS		
Heavy-Duty	1.25	1.50
LAUNDRY WASHERS	1.50	2.00

Since most industrial applications are electric-motor-driven, Service Factors are based on the use of electric motors. These factors can be easily converted to engine-drive factors as outlined in Table 1.

Service Factors are based on the assumption that the system is free of dynamic vibrations, as explained in the Basic Information section, and that maximum momentary or starting loads do not exceed 200% of the rated load.

Service Factors listed are recommended as minimum for general purpse use. Application of these service factors will result in normal drive reliability and life under typical operation conditions. Refer to Factory any application not listed in Table 2 or Table 3.

Applications involving unusual operating conditions or requirements such as, but not limited to, the following should also be referred to Factory:

- Applications requiring extended life/High-reliability, exceeding normal
- High frequency starting
- Stalling or other high-energy load absorption
- Torsional vibrations
- Frequent speed variations
- Reversing loads
- Extremes in ambient temperature

Occasional & Intermittent Service or Engine Driven Applications

For multi-cylinder engine-driven applications and all applications operating intermittently up to 3 hours per day, refer to Table 2 or Table 3 for the Service Factor of the same application operating 3 to 10 hours per day. Next, in the first column of Table 1, find this same Service Factor. Then, to the right, under the desired hours service and prime mover, locate the converted Service Factor.

For example, from Table 3, the Service Factor is 1.25 for a uniformly-loaded belt conveyor. From Table 1, for the same application the following are the Service Factors for various conditions.

1. Engine-driven 3 to 10 hours per day; use 1.50 Service Factor.
2. Engine-driven up to 3 hours intermittently; use 1.25 Service Factor.
3. Motor-driven up to 3 hours intermittently; use 1.00 Service Factor.

Table 1 — Service Factor Conversions

Table 2 **or** Table 3 **3 to 10 Hour Service Factor**	**3 to 10 Hours per Day**	**Over 10 Hours per Day**		**Intermittent – Up to 3 Hours per Day** ①	
	Multi-Cyl. Engine ②	**Motor**	**Multi-Cyl. Engine** ②	**Motor**	**Multi-Cyl. Engine** ②
1.00	1.25	1.25	1.50	1.00	1.00
1.25	1.50	1.50	1.75	1.00	1.25
1.50	1.75	1.75	2.00	1.25	1.50
1.75	2.00	2.00	2.25	1.50	1.75
2.00	2.25	2.25	2.50	1.75	2.00

① For applications operating one half hour or less per day and applications driven by single cylinder engines, refer to Factory.

② These service factors are based on the assumption that the system is free from serious critical and torsional vibrations and that maximum momentary or starting loads do not exceed 200% of the normal load.

Table 2 — Type UJ Service Factors Listed by Industry

(For electric motor, steam turbine or hydraulic motor drives ... recommendations are MINIMUM and normal conditions are assumed.)

Industry	Service	
	3 to 10 Hour	Over 10 Hour
BOTTLING AND BREWING		
Bottling Machinery	1.25	1.25
Brew Kettles, Continuous Duty	1.25	1.25
Can Filling Machines	1.25	1.25
Cookers — Continuous Duty	1.25	1.25
Mash Tubs — Continuous Duty	1.25	1.25
Scale Hoppers — Frequent Starts	1.25	1.50
CLAY WORKING INDUSTRY		
Clay Working Machinery	1.25	1.50
Pug Mills	1.25	1.50
DISTILLING	See Brewing	
FOOD INDUSTRY		
Beet Slicers	1.25	1.50
Bottling, Can Filling Machine	1.25	1.25
Cereal Cookers	1.00	1.25
Dough Mixers, Meat Grinders	1.25	1.50
LUMBER INDUSTRY		
Conveyors		
Burner	1.25	1.50
Main or Heavy-Duty	1.50	1.50
Re-Saw Merry-Go-Round	1.25	1.50
Slab	1.75	2.00
Transfer	1.25	1.50
Chains — Floor	1.50	1.50
Chains — Green	1.50	1.75
Cut-Off Saws — Chain & Drag	1.50	1.75
Feeds — Edger	1.25	1.50
Feeds — Gang	1.75	1.75
Feeds — Trimmer	1.25	1.50
Log Turning Devices	1.75	1.75
Planer Feed	1.25	1.50
Planer Tilting Hoists	1.50	1.50
Rolls — Live — Off Bearing — Roll Cases	1.75	1.75
Sorting Table, Tipple Hoist	1.25	1.50
Transfers—Chain & Craneway	1.75	2.00
Tray Drives	1.25	1.50
OIL INDUSTRY		
Chillers	1.25	1.50
Paraffin Filter Press	1.25	1.50
Rotary Kilns	1.25	1.50
PAPER MILLS ③		
Agitator (Mixer)	–.	1.50
Agitator for Pure Liquids	–	1.50
Beater	–	1.50
Breaker Stack	–	1.50
④ Calender	–	1.50
Chipper	–	2.00
Chip Feeder	–	1.50
Coating Rolls	–	1.50
Conveyors — Chip, Bark, Chemical	–	1.50
Couch Rolls	–	1.50
Cylinder molds	–	1.50
④ Dryers — Paper Mach. & Conveyor Type	–	1.50
Embosser	–	1.50
Extruder	–	1.50
Fourdrinier Rolls — Lumpbreaker, Wire Turning Dandy & Return Rolls	–	1.50
Jordan	–	1.50
Kiln Drive	–	1.50
Mt. Hope & Paper Rolls	–	1.50
Platter	–	1.50
Presses (Felt & Suction)	–	1.50
Reel (Surface Type)	–	1.50
Screens		
Chip & Rotary	–	1.50
Size Press	–	1.50
Thickener & Washer		
AC Motor	–	1.50
DC Motor	–	1.50
Vacuum Pumps	–	1.50
Wind & Unwind Stand	–	1.25
Winders (Surface Type)	–	1.25
PLASTIC INDUSTRY		
Batch Drop Mill, 2 smooth rolls	1.25	1.25
Calenders	1.50	1.50
Compounding Mills	1.25	1.25
Continuous Feed, Holding & Blend Mill	1.25	1.25
Intensive Internal Mixers		
Batch Mixers	1.75	1.75
Continuous Mixers	1.50	1.50
RUBBER INDUSTRY		
Batch Drop Mill, 2 smooth rolls	1.50	1.50
Calenders	1.50	1.50
Cracker Warmer — 2 roll, 1 corrugated roll	1.75	1.75
Holding, Feed & Blend Mill — 2 Roll	1.25	1.25
Intensive Internal Mixers		
Batch Mixers	2.00	2.00
Continuous Mixers	1.50	1.50
Mixing Mill — 2 smooth rolls (if corrugated rolls are used, use Cracker Warmer service factors)	1.50	1.50
Refiner — 2 roll	1.50	1.50
SEWAGE DISPOSAL		
Bar Screens	1.25	1.25
Chemical Feeders	1.25	1.25
Collectors	1.25	1.25
Dewatering Screens	1.50	1.50
Scum Breakers	1.50	1.50
Slow or Rapid Mixers	1.50	1.50
Thickeners	1.50	1.50
Vacuum Filters	1.50	1.50
TEXTILE INDUSTRY		
Batchers, Calenders	1.25	1.50
Card Machines	1.25	1.50
Dry Cans, Dryers	1.25	1.50
Dyeing Machinery	1.25	1.50
Looms, Mangles, Nappers, Pads	1.25	1.50
Slashers, Soapers, Spinners, Tenter Frames, Washers, Winders	1.25	1.50

③ Service factors for paper mill applications are applied to the nameplate rating of the electric drive motor at the motor-rated base speed and are consistent with those shown in TAPPI standards.

④ Anti-friction bearings only.

Table 3 — Type UJ Service Factors Listed by Application

(For electric motor, steam turbine or hydraulic motor drives ... recommendations are MINIMUM and normal conditions are assumed.)

Application	Service 3 to 10 Hour	Service Over 10 Hour
AGITATORS		
Pure Liquids	1.25 ②	1.25 ②
Liquids & Solids	1.25 ②	1.50 ②
Liquids-Variable Density	1.25 ②	1.50 ②
APRON CONVEYORS		
Uniformly-Loaded or Fed	1.25	1.50
Heavy-Duty	1.25	1.50
APRON FEEDERS	1.25	1.50
ASSEMBLY CONVEYORS		
Uniformly-Loaded or Fed	1.25	1.25
Heavy-Duty	1.25	1.50
BALL MILLS	See Mills, Rotary	
BAR SCREENS (Sewage)	1.25	1.25
BATCHERS (Textile)	1.25	1.50
BELT CONVEYORS		
Uniformly-Loaded or Fed	1.25	1.25
Heavy-Duty	1.25	1.50
BELT FEEDERS	1.25	1.50
BENDING ROLLS (Machine)	1.25	1.50
BLOWERS		
Centrifugal	1.25	1.25
Lobe	1.25	1.50
Vane	1.25	1.50
BOTTLING MACHINERY	1.25	1.25
BREWING	See Table 2	
BUCKET		
Conveyors Uniform	1.25	1.50
Conveyors Heavy-Duty	1.25	1.50
Elevators Continuous	1.25	1.50
Elevators Uniform	1.25	1.50
Elevators Heavy-Duty	1.25	1.50
CALENDERS		
Rubber and Plastic	See Table 2	
Textile	1.25	1.50
CAN FILLING MACHINES	1.25	1.25
CARD MACHINES (Textile)	1.25	1.50
CAR PULLERS	1.25	1.50
CEMENT KILNS	See Mills, Rotary	
CENTRIFUGAL		
Blowers, Compressors, Discharge Elevators, Fans or Pumps	1.25	1.25
CHAIN CONVEYORS		
Uniformly-Loaded or Fed	1.25	1.25
Heavy-Duty	1.25	1.50
CHEMICAL FEEDERS (Sewage)	1.25	1.25
CLARIFIERS	1.25	1.25
CLASSIFIERS	1.25	1.50
CLAY WORKING	See Table 2	
COLLECTORS (Sewage)	1.25	1.25
COMPRESSORS		
Centrifugal	1.25	1.25
Lobe	1.25	1.50
Reciprocating Multi-Cylinder	1.50	1.75
CONCRETE MIXERS		
Continuous	1.25	1.50
Intermittent	1.25	1.50
CONVEYORS — Uniformly-loaded or Fed:		
Apron, Assembly, Belt, Bucket, Chain, Flight, Oven, Screw	1.25	1.25
CONVEYORS — Heavy-Duty, Not Uniformly Fed		
Apron, Assembly, Belt, Bucket, Chain, Flight, Oven, Screw	1.25	1.50
COOKERS (Brewing & Distilling), (Food)	1.25	1.25
DEWATERING SCREENS (Sewage)	1.50	1.50
DISC FEEDERS	1.25	1.25
DISTILLING	See Table 2	
DOUBLE-ACTING PUMPS		
2 or more Cylinders	1.25	1.50
DOUGH MIXER (Food)	1.25	1.50
DRAW BENCH (Metal Mills)		
Carriage & Main Drive	1.25	1.50
DRYERS & COOLERS (Mills, Rotary)	–	1.50
DYEING MACHINERY (Textile)	1.25	1.50
ELEVATORS		
Bucket-Uniform-Lood	1.25	1.50
Bucket-Heavy-Duty	1.25	1.50
Bucket-Continuous	1.25	1.50
Centrifugal Discharge	1.25	1.25
① Escalators	**Not Approved**	
① Freight	**Not Approved**	
Gravity Discharge	1.25	1.25
① Man Lifts, Passenger	**Not Approved**	
EXTRUDERS (Plastic & Rubber)	See Table 2	
FANS		
Centrifugal	1.25	1.25
Forced Draft	–	1.25
Induced Draft	1.50	1.50
Large (Mine, etc.)	1.50	1.50
Large Industrial	1.50	1.50
Light (Small Diameter)	1.00	1.25
FEEDERS		
Apron, Belt	1.25	1.50
Disc	1.25	1.25
Screw	1.25	1.50
FLIGHT CONVEYORS		
Uniform	1.25	1.25
Heavy	1.25	1.50
FOOD INDUSTRY	See Table 2	
GENERATORS (Not Welding)	1.25	1.25
GRAVITY DISCHARGE ELEVATORS	1.00	1.25
① **HOISTS**		
Medium Duty	1.25	1.50
Skip Hoist	1.25	1.50
INDUCED DRAFT FANS	1.25	1.50
KILNS	See Mills, Rotary	
LAUNDRY WASHERS	1.50	2.00
LAUNDRY TUMBLERS	1.25	1.50
LINE SHAFTS		
Driving Processing Equipment	1.25	1.50
Other Line Shafts, Light	1.25	1.25
LOBE BLOWERS OR COMPRESSORS	1.25	1.50
LOOMS (Textile)	1.25	1.50
LUMBER INDUSTRY	See Table 2	
MACHINE TOOLS		
Auxiliary Drives	1.25	1.25
Bending Rolls	1.25	1.50
Main Drives	1.25	1.50
Punch Press (Geared)	1.75	2.00
Tapping machines	1.75	2.00
MANGLE (Textile)	1.25	1.50
MASH TUBS (Brewing & Distilling)	1.25	1.25
MEAT GRINDERS (Food)	1.25	1.50
METAL MILLS		
Draw Bench Carriages & Main Drives	1.25	1.50
Pinch, Dryer & Scrubber Rolls, Reversing	Refer to Factory	
Slitters	1.25	1.50
Table Conveyors, Non-Reversing Group Drives	1.50	1.50
Wire Drawing & Flattening Machines	1.25	1.50
Wire Winding Machines	1.50	1.50
MILLS, ROTARY		
Pebble, Plain & Wedge Bar Mills	–	1.50
MIXER (Also see Agitators)		
Concrete, Cont. & Int.	1.25 ②	1.50 ②
Constant Density	1.25 ②	1.50 ②
Variable Density	1.25 ②	1.50 ②
NAPPERS (Textile)	1.25	1.50
OIL INDUSTRY	See Table 2	
OVEN CONVEYORS		
Uniform	1.25	1.25
Heavy-Duty	1.25	1.50
PAPER MILLS	See Table 2	
PASSENGER ELEVATORS	**Not Approved**	
PEBBLE MILLS	–	1.50
PROPORTIONING PUMPS	1.25	1.50
PUG MILLS (Clay)	1.25	1.50
PUMPS		
Centrifugal	1.25	1.25
Proportioning	1.25	1.50
Reciprocating		
Single-Act., 3 or more Cyl.	1.25	1.50
Double-Act., 2 or more Cyl.	1.25	1.50
Rotary: Gear, Lobe, Vane	1.25	1.25
RECIPROCATING COMPRESSORS		
Multl-Cylinder	1.50	1.75
ROTARY		
Pumps	1.25	1.25
Screens (Sand or Gravel)	1.25	1.50
RUBBER & PLASTICS INDUSTRIES	See Table 2	
SAND MULLERS	1.25	1.50
SCREENS		
Air Washing	1.00	1.25
Rotary — Sand or Gravel	1.25	1.50
Traveling Water Intake	1.00	1.25
SCREW CONVEYORS		
Uniform	1.25	1.25
Heavy-Duty or Feeder	1.25	1.50
SCUM BREAKERS (Sewage)	1.50	1.50
SEWAGE DISPOSAL	See Table 2	
SHAKER CONVEYORS	1.75	2.00
SHEETERS (Rubber)	–	1.50
SINGLE ACTING PUMP		
3 or more Cylinders	1.25	1.50
① **SKI TOWS & LIFTS**	**Not Approved**	
① **SKIP HOIST**	1.25	1.50
SLAB PUSHERS	1.50	1.50
SLITTERS (Metal)	1.25	1.50
SLUDGE COLLECTORS (Sewage)	1.25	1.25
SOAPERS (Textile)	1.25	1.50
SPINNERS (Textile)	1.25	1.50
STOKERS	1.25	1.25
TABLE CONVEYORS (Non-Reversing)		
Group Drives	1.50	1.50
TENTER FRAMES (Textile)	1.25	1.50
TEXTILE INDUSTRY	See Table 2	
THICKENERS (Sewage)	1.50	1.50
VACUUM FILTERS (Sewage)	1.50	1.50
VANE BLOWERS	1.25	1.50
WINCHES (Dredges)	1.25	1.50
WINDERS (Textile)	1.25	1.50
WIRE		
Drawing Machines	1.25	1.50
Winding Machines	1.50	1.50

① Selection of Regal Rexnord™ products for applications whose primary purpose is the transportation of people is not approved. This includes such applications as freight or passenger elevators, escalators, man lifts, work lift platforms, ski tows and ski lifts. If the primary purpose of the application is material conveyance and occasionally people are transported, the Factory warranty may remain in effect provided the design load conditions are not exceeded and certification to the appropriate safety codes and load conditions has been obtained by the system designer or end user from the appropriate enforcement authorities.

② Contact your local Regal Rexnord representative for proper selection of a Falk® RAM mixer drive.

UJ — Exact Ratios

Double Reduction

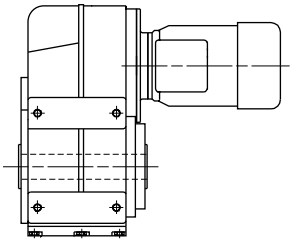
Ratio Code (3 Characters)	Drive Size		
	04	06	07
7.1	6.262	7.494	6.772
9.0	8.784	8.750	9.380
10.	9.68	9.81	10.54
12.	10.99	11.00	11.59
14.	13.96	13.98	15.13
16.	15.86	15.85	17.21
20.	19.46	18.90	20.89
22.	21.59	21.76	22.98
25.	24.52	25.31	26.41
28.	27.86	28.32	29.95
32.	30.68	30.18	33.03
36.	35.30	35.77	37.83
40.	38.37	38.19	42.77
50.	46.07	47.40	49.59
56.	55.28	55.89	59.14
63.	62.29	61.20	64.77
71.	72.41	75.00	77.72
90.	82.18	83.59	89.42
100	93.43	93.75	99.36

Triple Reduction

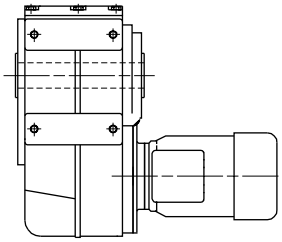
Ratio Code (3 Characters)	Drive Size		
	04	06	07
100	99.52	101.4	108.6
112	109.7	111.6	115.7
125	120.7	128.4	137.1
160	141.5	139.6	146.4
180	169.7	167.6	181.7
200	197.8	201.1	214.2
225	219.8	226.6	234.6
280	264.7	263.4	287.5
315	303.4	298.9	320.4
355	344.8	339.8	359.4

UJ — Drive Mounting Position

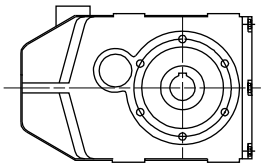
Mounting 1



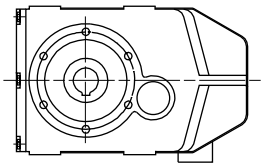
Mounting 2



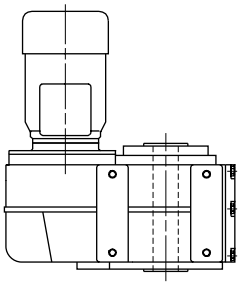
Mounting 3



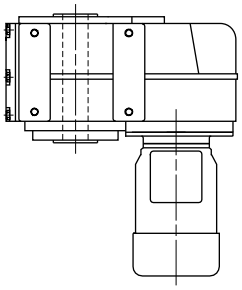
Mounting 4



Mounting 5



Mounting 6 ①



① Use motor fitted with a seal.

Motor Mounting Position

Conduit box position when viewed from L.S. end of drive.

A – Conduit box horizontal on right side, 0°.

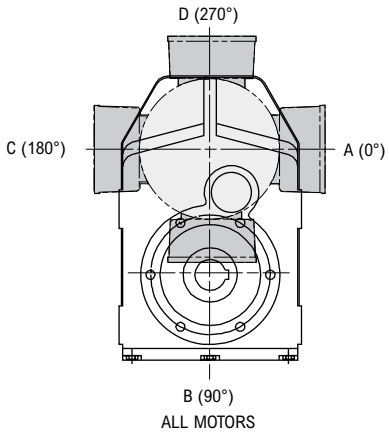
B – Conduit box vertical on bottom side, 90°.

C – Conduit box horizontal on left side, 180°.

D – Conduit box vertical on top side, 270°.

Standard NEMA motor mounting position is “C”.

Standard IEC motor mounting position is “A”.



UJ — Motor Adapters

The Ultramite® shaft mounted gearmotor accommodates NEMA (Input Type "A") or IEC (Input Type "G") motor frame sizes. Table 1 and Table 2 below identify the appropriate motor adapter symbol that pertains to specific motor frame size, drive size, ratio and reduction combinations.

If a motor adapter symbol is not listed for a particular combination of motor frame size, drive size, ratio and reduction, then that combination is not offered.

For gear drives (Input Types "N" and "C"), the motor adapter symbol is not used.

Table 1 — Input Type A – NEMA Motor Adapter Symbols

Motor Frame Size	Drive Size										
	04			06				07			
	Double		Triple	Double		Triple		Double		Triple	
	Ratio Range										
	5.0 - 25	28 - 100	63 - 360	5.0 - 16	18 - 100	63 - 90	100 - 360	5.0 - 16	18 - 100	63 - 90	100 - 360
56C	A	A	A	–	A	A	A	–	A	–	A
143TC/145TC	B	B	B	–	B	B	B	–	B	–	B
182TC/184TC	C	–	–	C	C	C	–	C	C	C	C
213TC/215TC	–	–	–	D	–	–	–	D	D	D	–
254TC/256TC	–	–	–	–	–	–	–	E	–	–	–

Table 2 — Input Type G – IEC Motor Adapter Symbols

Motor Frame Size	Drive Size										
	04			06				07			
	Double		Triple	Double		Triple		Double		Triple	
	Ratio Range										
	5.0 - 25	28 - 100	63 - 360	5.0 - 16	18 - 100	63 - 90	100 - 360	5.0 - 16	18 - 100	63 - 90	100 - 360
63/D	–	A ①	A ①	–	A	–	A ①	–	–	–	A
71/D	–	B	B	–	B	–	B	–	–	–	B
71/C	–	C ①	C ①	–	C ①	–	C ①	–	–	–	C ①
80/D	D	D	D	D	D	D	D	–	D	D	D
80/C	E ①	E ①	E ①	E ①	E ①	E ①	E ①	–	E ①	E ①	E ①
90/D	F	F	F	F	F	F	F	–	F	F	F
90/C	G	G	G	G ①	G ①	G	G	–	G ①	G ①	G ①
100/D	–	–	–	H	H	–	–	H	H	H	H
100/C	J	J	J	J ①	J ①	J	J	J ①	J ①	J ①	J ①
112/D	–	–	–	K	K	–	–	K	K	K	K
112/C	M	M	M	M ①	M ①	M	M	M ①	M ①	M ①	M ①
132/D	–	–	–	N	N	–	–	N	N	N	N
132/C	–	–	–	P	P	–	–	P ①	P ①	P	P
160/D	–	–	–	–	–	–	–	R	R	–	–

① Gear drive Sizes 04, 06 & 07 furnished by Regal Rexnord less motor will be furnished without lubricant.

Motor Detail (NEMA C-Face)

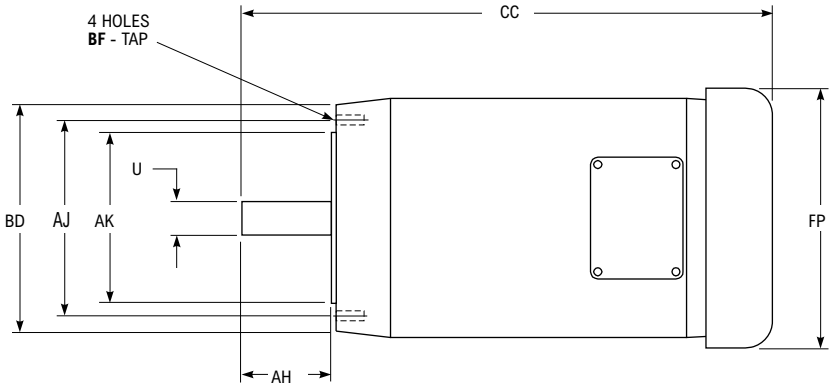


Table 3 — Typical Motor Dimensions (in)

Motor Frame Size	BD	AJ	AK	U	AH	CC Max	FP	BF Tap UNC
56C	6.50	5.88	4.5	0.625	2.06	11.38	7.19	0.375-16
143TC/145TC	6.50	5.88	4.5	0.875	2.12	14.19	7.19	0.375-16

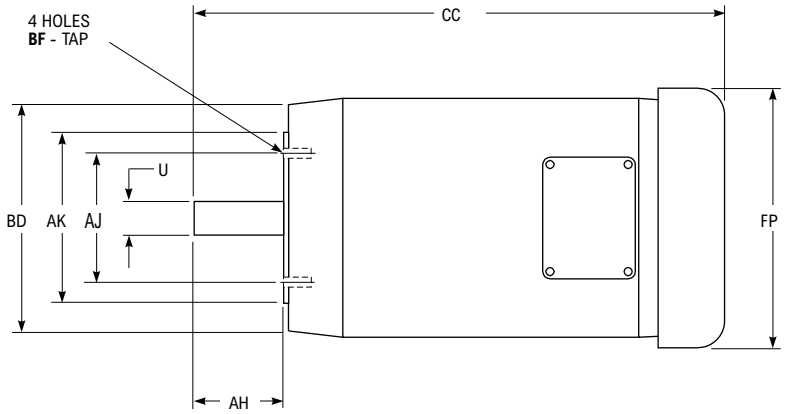


Table 4 — Typical Motor Dimensions (in)

Motor Frame Size	BD	AJ	AK	U	AH	CC Max	FP	BF Tap UNC
182TC/184TC	9.00	7.25	8.5	1.125	2.63	18.06	8.50	0.50-13
213TC/215TC	9.00	7.25	8.5	1.375	3.13	19.44	10.19	0.50-13
254TC/256TC	10.00	7.25	8.5	1.625	3.75	23.63	12.50	0.50-13
284TC/286TC	11.25	9.00	10.5	1.875	4.38	27.56	15.56	0.50-13
324TC/326TC	13.38	11.00	12.5	2.125	5.00	30.25	16.94	0.63-11
364TC/365TC	13.38	11.00	12.5	2.375	5.63	32.56	19.00	0.63-11
404TC/405TC	13.88	11.00	12.5	2.875	7.00	36.88	20.63	0.63-11

UJ — Gearmotor Selection Table

0.25 HP/1750 RPM/56C Frame Motor

Approx Output RPM	Exact Ratio	Actual Output Torque (lb-in)	Service Factor	Overhung Load (lb)	Hollow Shaft Basic Drive Gearmotor Less Motor Inch-Dimensioned	
					Drive Designation	Part No.
21	82.18	722	3.41	1665	04UJAJ2B90A_A	4769280
18	93.43	817	2.68	1723	04UJAJ2B100A_A	4769281
17	99.52	863	3.50	1757	04UJAJ3B100A_A	4769446
16	109.72	952	3.28	1802	04UJAJ3B112A_A	4769448
14	120.75	1049	3.10	1847	04UJAJ3B125A_A	4769449
12	141.47	1229	2.65	1923	04UJAJ3B160A_A	4769450
10	169.72	1470	2.22	1952	04UJAJ3B180A_A	4769451
8.7	197.84	1715	1.90	1903	04UJAJ3B200A_A	4769452
7.8	219.82	1901	1.71	1865	04UJAJ3B225A_A	4769453
6.5	264.71	2298	1.42	1786	04UJAJ3B280A_A	4769454
5.7	303.42	2632	1.24	1718	04UJAJ3B315A_A	4769455
5.0	344.83	2975	1.09	1646	04UJAJ3B355A_A	4769456
7.6	226.56	1970	3.67	8789	06UJAJ3B225A_A	4769469
6.5	263.38	2293	3.37	8767	06UJAJ3B280A_A	4769471
5.8	298.94	2601	3.11	8744	06UJAJ3B315A_A	4769472
5.1	339.84	2949	2.47	8744	06UJAJ3B355A_A	4769473

Motors are available from Regal Rexnord or Regal Rexnord distributors.

0.25 HP/56C Motor
Falk Part No. 1940393

Conforms to the following specifications:

C-Face motor less base, TEFC, 1750 rpm, 208–230/460 Volts, 3 Phase, 60 Hz, NEMA B, 1.15 Service Factor.

Motors meeting other specifications are available upon request.

0.33 HP/1750 RPM/56C Frame Motor

Approx Output RPM	Exact Ratio	Actual Output Torque (lb-in)	Service Factor	Overhung Load (lb)	Hollow Shaft Basic Drive Gearmotor Less Motor Inch-Dimensioned	
					Drive Designation	Part No.
17	99.52	1139	2.65	1701	04UJAJ3B100A_A	4769446
16	109.72	1257	2.48	1740	04UJAJ3B112A_A	4769448
14	120.75	1385	2.35	1779	04UJAJ3B125A_A	4769449
12	141.47	1622	2.01	1844	04UJAJ3B160A_A	4769450
10	169.72	1940	1.68	1857	04UJAJ3B180A_A	4769451
8.7	197.84	2264	1.44	1792	04UJAJ3B200A_A	4769452
7.8	219.82	2509	1.30	1742	04UJAJ3B225A_A	4769453
6.5	264.71	3033	1.07	1637	04UJAJ3B280A_A	4769454
18	93.75	1087	3.82	8834	06UJAJ2B100A_A	4769318
12	139.58	1606	3.74	8812	06UJAJ3B160A_A	4769463
10	167.56	1927	3.36	8790	06UJAJ3B180A_A	4769465
8.6	201.07	2310	2.99	8763	06UJAJ3B200A_A	4769467
7.6	226.56	2600	2.78	8758	06UJAJ3B225A_A	4769469
6.5	263.38	3028	2.55	8731	06UJAJ3B280A_A	4769471
5.8	298.94	3434	2.36	8704	06UJAJ3B315A_A	4769472
5.1	339.84	3893	1.87	8694	06UJAJ3B355A_A	4769473
4.8	359.36	4114	3.79	7306	07UJAJ3B355A_A	4769491

Motors are available from Regal Rexnord or Regal Rexnord distributors.

0.33 HP/56C Motor
Falk Part No. 1940394

Conforms to the following specifications:

C-Face motor less base, TEFC, 1750 rpm, 208–230/460 Volts, 3 Phase, 60 Hz, NEMA B, 1.15 Service Factor.

Motors meeting other specifications are available upon request.

UJ — Gearmotor Selection Table

0.50 HP/1750 RPM/56C Frame Motor

Approx Output RPM	Exact Ratio	Actual Output Torque (lb-in)	Service Factor	Overhung Load (lb)	Hollow Shaft Basic Drive Gearmotor Less Motor Inch-Dimensioned	
					Drive Designation	Part No.
31	55.28	970	3.36	1391	04UJAJ2B56A_A	4769274
28	62.29	1093	2.88	1430	04UJAJ2B63A_A	4769276
24	72.41	1275	2.14	1479	04UJAJ2B71A_A	4769278
21	82.18	1445	1.70	1519	04UJAJ2B90A_A	4769280
18	93.43	1634	1.34	1558	04UJAJ2B100A_A	4769281
17	99.52	1726	1.75	1582	04UJAJ3B100A_A	4769446
16	109.72	1905	1.64	1609	04UJAJ3B112A_A	4769448
14	120.75	2098	1.55	1634	04UJAJ3B125A_A	4769449
12	141.47	2458	1.32	1675	04UJAJ3B160A_A	4769450
10	169.72	2940	1.11	1655	04UJAJ3B180A_A	4769451
8.7	197.84	3431	0.95	1555	04UJAJ3B200A_A	4769452
18	93.75	1647	2.52	8805	06UJAJ2B100A_A	4769318
17	101.36	1766	3.25	8790	06UJAJ3B100A_A	4769457
15	111.62	1940	2.86	8790	06UJAJ3B112A_A	4769459
13	128.39	2239	2.60	8773	06UJAJ3B125A_A	4769461
12	139.58	2433	2.47	8770	06UJAJ3B160A_A	4769463
10	167.56	2920	2.22	8738	06UJAJ3B180A_A	4769465
8.6	201.07	3500	1.97	8707	06UJAJ3B200A_A	4769467
7.6	226.56	3940	1.84	8692	06UJAJ3B225A_A	4769469
6.5	263.38	4587	1.68	8655	06UJAJ3B280A_A	4769471
5.8	298.94	5203	1.55	8617	06UJAJ3B315A_A	4769472
5.1	339.84	5899	1.23	8587	06UJAJ3B355A_A	4769473
9.5	181.67	3156	3.70	7306	07UJAJ3B180A_A	4769482
7.4	234.58	4072	3.17	7306	07UJAJ3B225A_A	4769486
6.0	287.49	4989	2.80	7289	07UJAJ3B280A_A	4769487
5.4	320.43	5568	2.67	7289	07UJAJ3B315A_A	4769489
4.8	359.36	6234	2.50	7286	07UJAJ3B355A_A	4769491

Motors are available from Regal Rexnord or Regal Rexnord distributors.

0.50 HP/56C Motor
Falk Part No. 1940395

Conforms to the following specifications:

C-Face motor less base, TEFC, 1750 rpm, 208–230/460 Volts, 3 Phase, 60 Hz, NEMA B, 1.15 Service Factor.

Motors meeting other specifications are available upon request.

0.75 HP/1750 RPM/56C Frame Motor

Approx Output RPM	Exact Ratio	Actual Output Torque (lb-in)	Service Factor	Overhung Load (lb)	Hollow Shaft Basic Drive Gearmotor Less Motor Inch-Dimensioned	
					Drive Designation	Part No.
49	35.30	933	3.49	1177	04UJAJ2B36A_A	4769268
45	38.37	1015	3.21	1200	04UJAJ2B40A_A	4769270
37	46.07	1215	2.68	1246	04UJAJ2B50A_A	4769272
31	55.28	1455	2.24	1293	04UJAJ2B56A_A	4769274
28	62.29	1640	1.92	1319	04UJAJ2B63A_A	4769276
24	72.41	1913	1.43	1351	04UJAJ2B71A_A	4769278
21	82.18	2167	1.14	1373	04UJAJ2B90A_A	4769280
18	93.43	2451	0.89	1393	04UJAJ2B100A_A	4769281
17	99.52	2590	1.17	1407	04UJAJ3B100A_A	4769446
16	109.72	2858	1.09	1416	04UJAJ3B112A_A	4769448
14	120.75	3148	1.03	1422	04UJAJ3B125A_A	4769449
23	75.00	1979	3.07	8789	06UJAJ2B71A_A	4769314
21	83.59	2212	2.43	8775	06UJAJ2B90A_A	4769316
18	93.75	2471	1.68	8762	06UJAJ2B100A_A	4769318
17	101.36	2649	2.17	8745	06UJAJ3B100A_A	4769457
15	111.62	2910	1.90	8741	06UJAJ3B112A_A	4769459
13	128.39	3359	1.73	8715	06UJAJ3B125A_A	4769461
12	139.58	3650	1.65	8707	06UJAJ3B160A_A	4769463
10	167.56	4380	1.48	8663	06UJAJ3B180A_A	4769465
8.6	201.07	5250	1.31	8625	06UJAJ3B200A_A	4769467
7.6	226.56	5910	1.22	8595	06UJAJ3B225A_A	4769469
6.5	263.38	6881	1.12	8542	06UJAJ3B280A_A	4769471
5.8	298.94	7805	1.04	8490	06UJAJ3B315A_A	4769472
17	99.36	2606	3.70	7306	07UJAJ2B100A_A	4769363
12	146.40	3821	2.80	7295	07UJAJ3B160A_A	4769480
9.5	181.67	4734	2.47	7291	07UJAJ3B180A_A	4769482
8.1	214.23	5574	2.24	7287	07UJAJ3B200A_A	4769484
7.4	234.58	6109	2.12	7287	07UJAJ3B225A_A	4769486
6.0	287.49	7484	1.87	7265	07UJAJ3B280A_A	4769487
5.4	320.43	8352	1.78	7265	07UJAJ3B315A_A	4769489
4.8	359.36	9352	1.67	7257	07UJAJ3B355A_A	4769491

Motors are available from Regal Rexnord or Regal Rexnord distributors.

0.75 HP/56C Motor
Falk Part No. 1940396

Conforms to the following specifications:

C-Face motor less base, TEFC, 1750 rpm, 208–230/460 Volts, 3 Phase, 60 Hz, NEMA B, 1.15 Service Factor.

Motors meeting other specifications are available upon request.

UJ — Gearmotor Selection Table

1.0 HP/1750 RPM/143TC Frame Motor

Approx Output RPM	Exact Ratio	Actual Output Torque (lb-in)	Service Factor	Overhung Load (lb)	Hollow Shaft Basic Drive Gearmotor Less Motor Inch-Dimensioned	
					Drive Designation	Part No.
70	24.53	867	3.66	1036	04UJAJ2B25A_B	4769262
62	27.86	984	3.29	1065	04UJAJ2B28A_B	4769265
56	30.68	1085	3.00	1085	04UJAJ2B32A_B	4769267
49	35.30	1244	2.62	1114	04UJAJ2B36A_B	4769269
45	38.37	1353	2.41	1132	04UJAJ2B40A_B	4769271
37	46.07	1620	2.01	1165	04UJAJ2B50A_B	4769273
31	55.28	1940	1.68	1195	04UJAJ2B56A_B	4769275
28	62.29	2186	1.44	1208	04UJAJ2B63A_B	4769277
24	72.41	2550	1.07	1223	04UJAJ2B71A_B	4769279
17	99.52	3453	0.87	1232	04UJAJ3B100A_B	4769447
31	55.89	1977	3.99	8790	06UJAJ2B56A_B	4769309
28	61.20	2161	3.64	8767	06UJAJ2B63A_B	4769312
23	75.00	2639	2.30	8758	06UJAJ2B71A_B	4769315
21	83.59	2949	1.82	8737	06UJAJ2B90A_B	4769317
18	93.75	3294	1.26	8719	06UJAJ2B100A_B	4769319
17	101.36	3532	1.63	8700	06UJAJ3B100A_B	4769458
15	111.62	3880	1.43	8692	06UJAJ3B112A_B	4769460
13	128.39	4479	1.30	8657	06UJAJ3B125A_B	4769462
12	139.58	4867	1.23	8645	06UJAJ3B160A_B	4769464
10	167.56	5840	1.11	8587	06UJAJ3B180A_B	4769466
8.6	201.07	7000	0.99	8542	06UJAJ3B200A_B	4769468
7.6	226.56	7880	0.92	8497	06UJAJ3B225A_B	4769470
19	89.42	3132	3.50	7306	07UJAJ2B90A_B	4769361
17	99.36	3475	2.78	7298	07UJAJ2B100A_B	4769364
16	108.56	3776	2.79	7298	07UJAJ3B100A_B	4769474
15	115.70	4038	2.50	7298	07UJAJ3B112A_B	4769476
13	137.12	4770	2.21	7292	07UJAJ3B125A_B	4769478
12	146.40	5095	2.10	7283	07UJAJ3B160A_B	4769481
9.5	181.67	6312	1.85	7276	07UJAJ3B180A_B	4769483
8.1	214.23	7433	1.68	7268	07UJAJ3B200A_B	4769485
6.0	287.49	9979	1.40	7241	07UJAJ3B280A_B	4769488
5.4	320.43	11136	1.34	7241	07UJAJ3B315A_B	4769490
4.8	359.36	12469	1.25	7229	07UJAJ3B355A_B	4769492

Motors are available from Regal Rexnord or Regal Rexnord distributors.

1.0 HP/143TC Motor
Falk Part No. 1940397

Conforms to the following specifications:

C-Face motor less base, TEFC, 1750 rpm, 208–230/460 Volts, 3 Phase, 60 Hz, NEMA B, 1.15 Service Factor.

Motors meeting other specifications are available upon request.

UJ — Gearmotor Selection Table

1.5 HP/1750 RPM/145TC Frame Motor

Approx Output RPM	Exact Ratio	Actual Output Torque (lb-in)	Service Factor	Overhung Load (lb)	Hollow Shaft Basic Drive Gearmotor Less Motor Inch-Dimensioned	
					Drive Designation	Part No.
124	13.96	742	3.79	854	04UJAJ2B14A_B	4769250
109	15.86	843	3.53	876	04UJAJ2B16A_B	4769253
89	19.46	1034	2.96	912	04UJAJ2B20A_B	4769256
80	21.59	1147	2.71	929	04UJAJ2B22A_B	4769259
70	24.53	1301	2.44	948	04UJAJ2B25A_B	4769262
62	27.86	1476	2.19	965	04UJAJ2B28A_B	4769265
56	30.68	1628	2.00	976	04UJAJ2B32A_B	4769267
49	35.30	1866	1.74	989	04UJAJ2B36A_B	4769269
45	38.37	2030	1.60	995	04UJAJ2B40A_B	4769271
37	46.07	2431	1.34	1001	04UJAJ2B50A_B	4769273
31	55.28	2910	1.12	998	04UJAJ2B56A_B	4769275
28	62.29	3280	0.96	986	04UJAJ2B63A_B	4769277
45	38.19	2031	3.88	8092	06UJAJ2B40A_B	4769305
36	47.40	2516	3.14	8587	06UJAJ2B50A_B	4769307
31	55.89	2966	2.66	8686	06UJAJ2B56A_B	4769309
28	61.20	3242	2.42	8717	06UJAJ2B63A_B	4769312
23	75.00	3959	1.53	8695	06UJAJ2B71A_B	4769315
21	83.59	4424	1.22	8662	06UJAJ2B90A_B	4769317
18	93.75	4942	0.84	8632	06UJAJ2B100A_B	4769319
17	101.36	5299	1.08	8610	06UJAJ3B100A_B	4769458
15	111.62	5821	0.95	8595	06UJAJ3B112A_B	4769460
13	128.39	6719	0.87	8542	06UJAJ3B125A_B	4769462
22	77.72	4102	3.32	7306	07UJAJ2B71A_B	4769358
19	89.42	4699	2.34	7289	07UJAJ2B90A_B	4769361
17	99.36	5212	1.85	7283	07UJAJ2B100A_B	4769364
16	108.56	5664	1.86	7283	07UJAJ3B100A_B	4769474
15	115.70	6057	1.67	7283	07UJAJ3B112A_B	4769476
13	137.12	7156	1.47	7265	07UJAJ3B125A_B	4769478
12	146.40	7642	1.40	7261	07UJAJ3B160A_B	4769481
9.5	181.67	9469	1.23	7246	07UJAJ3B180A_B	4769483
8.1	214.23	11149	1.12	7231	07UJAJ3B200A_B	4769485
6.0	287.49	14969	0.93	7193	07UJAJ3B280A_B	4769488

Motors are available from Regal Rexnord or Regal Rexnord distributors.

1.5 HP/145TC Motor
Falk Part No. 1940398

Conforms to the following specifications:

C-Face motor less base, TEFC, 1750 rpm, 208–230/460 Volts, 3 Phase, 60 Hz, NEMA B, 1.15 Service Factor.

Motors meeting other specifications are available upon request.

UJ — Gearmotor Selection Table

2.0 HP/1750 RPM/145TC Frame Motor

Approx Output RPM	Exact Ratio	Actual Output Torque (lb-in)	Service Factor	Overhung Load (lb)	Hollow Shaft Basic Drive Gearmotor Less Motor Inch-Dimensioned	
					Drive Designation	Part No.
196	8.78	621	3.60	735	04UJAJ2B9.0A_B	4769241
178	9.68	684	3.44	750	04UJAJ2B10A_B	4769244
157	10.99	779	3.23	771	04UJAJ2B12A_B	4769247
124	13.96	990	2.84	804	04UJAJ2B14A_B	4769250
109	15.86	1124	2.64	819	04UJAJ2B16A_B	4769253
89	19.46	1378	2.22	842	04UJAJ2B20A_B	4769256
80	21.59	1530	2.04	852	04UJAJ2B22A_B	4769259
70	24.53	1735	1.83	860	04UJAJ2B25A_B	4769262
62	27.86	1968	1.65	865	04UJAJ2B28A_B	4769265
56	30.68	2170	1.50	867	04UJAJ2B32A_B	4769267
49	35.30	2488	1.31	863	04UJAJ2B36A_B	4769269
45	38.37	2707	1.20	858	04UJAJ2B40A_B	4769271
61	28.32	2008	3.87	7373	06UJAJ2B28A_B	4769299
57	30.18	2139	3.68	7508	06UJAJ2B32A_B	4769301
48	35.77	2537	3.09	7864	06UJAJ2B36A_B	4769303
45	38.19	2708	2.91	7993	06UJAJ2B40A_B	4769305
36	47.40	3355	2.35	8465	06UJAJ2B50A_B	4769307
31	55.89	3955	2.00	8582	06UJAJ2B56A_B	4769309
28	61.20	4323	1.82	8666	06UJAJ2B63A_B	4769312
23	75.00	5279	1.15	8632	06UJAJ2B71A_B	4769315
29	59.14	4165	3.27	7306	07UJAJ2B56A_B	4769352
27	64.77	4570	3.02	7283	07UJAJ2B63A_B	4769355
22	77.72	5469	2.49	7293	07UJAJ2B71A_B	4769358
19	89.42	6265	1.75	7272	07UJAJ2B90A_B	4769361
17	99.36	6950	1.39	7268	07UJAJ2B100A_B	4769364
16	108.56	7552	1.39	7268	07UJAJ3B100A_B	4769474
15	115.70	8076	1.25	7268	07UJAJ3B112A_B	4769476
13	137.12	9541	1.10	7238	07UJAJ3B125A_B	4769478
12	146.40	10190	1.05	7238	07UJAJ3B160A_B	4769481
9.5	181.67	12625	0.93	7216	07UJAJ3B180A_B	4769483
8.1	214.23	14866	0.84	7193	07UJAJ3B200A_B	4769485

Motors are available from Regal Rexnord or Regal Rexnord distributors.

2.0 HP/145TC Motor
Falk Part No. 1940399

Conforms to the following specifications:

C-Face motor less base, TEFC, 1750 rpm, 208–230/460 Volts, 3 Phase, 60 Hz, NEMA B, 1.15 Service Factor.

Motors meeting other specifications are available upon request.

UJ — Gearmotor Selection Table

3.0 HP/1750 RPM/182TC Frame Motor

Approx Output RPM	Exact Ratio	Actual Output Torque (lb-in)	Service Factor	Overhung Load (lb)	Hollow Shaft Basic Drive Gearmotor Less Motor Inch-Dimensioned	
					Drive Designation	Part No.
275	6.26	663	2.78	633	04UJAJ2B7.1A_C	4769239
196	8.78	932	2.40	672	04UJAJ2B9.0A_C	4769242
178	9.68	1027	2.29	681	04UJAJ2B10A_C	4769245
157	10.99	1168	2.15	691	04UJAJ2B12A_C	4769248
124	13.96	1485	1.89	703	04UJAJ2B14A_C	4769251
109	15.86	1687	1.76	706	04UJAJ2B16A_C	4769254
89	19.46	2068	1.48	703	04UJAJ2B20A_C	4769257
80	21.59	2295	1.36	698	04UJAJ2B22A_C	4769260
109	15.85	1688	3.84	6204	06UJAJ2B16A_C	4769292
91	18.90	2013	3.48	6496	06UJAJ2B20A_C	4769295
79	21.76	2318	2.82	6744	06UJAJ2B22A_C	4769296
68	25.31	2695	2.75	7021	06UJAJ2B25A_C	4769298
61	28.32	3012	2.58	7231	06UJAJ2B28A_C	4769300
57	30.18	3209	2.45	7351	06UJAJ2B32A_C	4769302
48	35.77	3806	2.06	7678	06UJAJ2B36A_C	4769304
45	38.19	4062	1.94	7794	06UJAJ2B40A_C	4769306
36	47.40	5032	1.57	8221	06UJAJ2B50A_C	4769308
31	55.89	5932	1.33	8374	06UJAJ2B56A_C	4769310
28	61.20	6485	1.21	8565	06UJAJ2B63A_C	4769313
52	33.03	3504	3.49	7306	07UJAJ2B32A_C	4769343
46	37.83	4028	3.16	7306	07UJAJ2B36A_C	4769345
40	42.77	4529	2.83	7283	07UJAJ2B40A_C	4769347
35	49.59	5259	2.51	7283	07UJAJ2B50A_C	4769350
29	59.14	6248	2.18	7285	07UJAJ2B56A_C	4769353
27	64.77	6856	2.01	7267	07UJAJ2B63A_C	4769356
22	77.72	8204	1.66	7267	07UJAJ2B71A_C	4769359
19	89.42	9398	1.17	7238	07UJAJ2B90A_C	4769362
16	108.56	11328	0.93	7238	07UJAJ3B100A_C	4769475
15	115.70	12115	0.83	7238	07UJAJ3B112A_C	4769477

Motors are available from Regal Rexnord or Regal Rexnord distributors.

3.0 HP/182TC Motor
Falk Part No. 1940400

Conforms to the following specifications:

C-Face motor less base, TEFC, 1750 rpm, 208–230/460 Volts, 3 Phase, 60 Hz, NEMA B, 1.15 Service Factor.

Motors meeting other specifications are available upon request.

UJ — Gearmotor Selection Table

5.0 HP/1750 RPM/184TC Frame Motor

Approx Output RPM	Exact Ratio	Actual Output Torque (lb-in)	Service Factor	Overhung Load (lb)	Hollow Shaft Basic Drive Gearmotor Less Motor Inch-Dimensioned	
					Drive Designation	Part No.
275	6.26	1105	1.67	544	04UJAJ2B7.1A_C	4769239
196	8.78	1554	1.44	546	04UJAJ2B9.0A_C	4769242
178	9.68	1712	1.37	541	04UJAJ2B10A_C	4769245
157	10.99	1948	1.29	532	04UJAJ2B12A_C	4769248
124	13.96	2475	1.14	503	04UJAJ2B14A_C	4769251
109	15.86	2812	1.06	478	04UJAJ2B16A_C	4769254
277	6.22	1106	3.54	4720	06UJAJ2B7.1A_C	4769282
197	8.75	1550	3.09	5170	06UJAJ2B9.0A_C	4769284
176	9.81	1740	2.93	5327	06UJAJ2B10A_C	4769286
157	11.01	1954	2.78	5485	06UJAJ2B12A_C	4769288
123	13.98	2483	2.46	5845	06UJAJ2B14A_C	4769290
109	15.85	2813	2.30	6037	06UJAJ2B16A_C	4769292
91	18.90	3356	2.09	6304	06UJAJ2B20A_C	4769295
79	21.76	3864	1.69	6519	06UJAJ2B22A_C	4769296
68	25.31	4492	1.65	6766	06UJAJ2B25A_C	4769298
61	28.32	5021	1.55	6946	06UJAJ2B28A_C	4769300
57	30.18	5348	1.47	7036	06UJAJ2B32A_C	4769302
48	35.77	6344	1.24	7306	06UJAJ2B36A_C	4769304
45	38.19	6771	1.16	7396	06UJAJ2B40A_C	4769306
114	15.13	2663	3.62	7306	07UJAJ2B14A_C	4769329
100	17.21	3055	3.33	7306	07UJAJ2B16A_C	4769332
83	20.89	3706	2.96	7306	07UJAJ2B20A_C	4769335
75	22.98	4049	2.78	7306	07UJAJ2B22A_C	4769337
65	26.41	4680	2.48	7283	07UJAJ2B25A_C	4769339
58	29.95	5316	2.30	7283	07UJAJ2B28A_C	4769341
52	33.03	5840	2.09	7287	07UJAJ2B32A_C	4769343
46	37.83	6713	1.90	7280	07UJAJ2B36A_C	4769345
40	42.77	7549	1.70	7258	07UJAJ2B40A_C	4769347
35	49.59	8766	1.50	7251	07UJAJ2B50A_C	4769350
29	59.14	10414	1.31	7244	07UJAJ2B56A_C	4769353
27	64.77	11427	1.21	7234	07UJAJ2B63A_C	4769356

Motors are available from Regal Rexnord or Regal Rexnord distributors.

5.0 HP/184TC Motor
Falk Part No. 1940401

Conforms to the following specifications:

C-Face motor less base, TEFC, 1750 rpm, 208–230/460 Volts, 3 Phase, 60 Hz, NEMA B, 1.15 Service Factor.

Motors meeting other specifications are available upon request.

UJ — Gearmotor Selection Table

7.5 HP/1750 RPM/213TC Frame Motor

Approx Output RPM	Exact Ratio	Actual Output Torque (lb-in)	Service Factor	Overhung Load (lb)	Hollow Shaft Basic Drive Gearmotor Less Motor Inch-Dimensioned	
					Drive Designation	Part No.
277	6.22	1660	2.36	4631	06UJAJ2B7.1A_D	4769283
197	8.75	2326	2.06	5058	06UJAJ2B9.0A_D	4769285
176	9.81	2610	1.96	5204	06UJAJ2B10A_D	4769287
157	11.01	2931	1.85	5350	06UJAJ2B12A_D	4769289
123	13.98	3725	1.64	5665	06UJAJ2B14A_D	4769291
109	15.85	4220	1.54	5828	06UJAJ2B16A_D	4769293
255	6.77	1789	2.78	5777	07UJAJ2B7.1A_D	4769320
184	9.38	2485	2.78	6317	07UJAJ2B9.0A_D	4769322
164	10.54	2793	2.78	6519	07UJAJ2B10A_D	4769324
149	11.59	3073	2.78	6676	07UJAJ2B12A_D	4769327
114	15.13	3995	2.41	7141	07UJAJ2B14A_D	4769330
100	17.21	4583	2.22	7163	07UJAJ2B16A_D	4769333
83	20.89	5559	1.97	7283	07UJAJ2B20A_D	4769336
75	22.98	6073	1.85	7283	07UJAJ2B22A_D	4769338
65	26.41	7020	1.65	7272	07UJAJ2B25A_D	4769340
58	29.95	7974	1.53	7261	07UJAJ2B28A_D	4769342
52	33.03	8760	1.39	7262	07UJAJ2B32A_D	4769344
46	37.83	10070	1.27	7248	07UJAJ2B36A_D	4769346
40	42.77	11323	1.13	7225	07UJAJ2B40A_D	4769348
35	49.59	13149	1.00	7211	07UJAJ2B50A_D	4769351
29	59.14	15622	0.87	7193	07UJAJ2B56A_D	4769354
27	64.77	17141	0.81	7193	07UJAJ2B63A_D	4769357

Motors are available from Regal Rexnord or Regal Rexnord distributors.

7.5 HP/213TC Motor
Falk Part No. 1940402

Conforms to the following specifications:

C-Face motor less base, TEFC, 1750 rpm, 208–230/460 Volts, 3 Phase, 60 Hz, NEMA B, 1.15 Service Factor.

Motors meeting other specifications are available upon request.

UJ — Gearmotor Selection Table

10 HP/1750 RPM/215TC Frame Motor

Approx Output RPM	Exact Ratio	Actual Output Torque (lb-in)	Service Factor	Overhung Load (lb)	Hollow Shaft Basic Drive Gearmotor Less Motor Inch-Dimensioned	
					Drive Designation	Part No.
277	6.22	2213	1.77	4541	06UJAJ2B7.1A_D	4769283
197	8.75	3101	1.55	4945	06UJAJ2B9.0A_D	4769285
176	9.81	3480	1.47	5080	06UJAJ2B10A_D	4769287
157	11.01	3908	1.39	5215	06UJAJ2B12A_D	4769289
123	13.98	4967	1.23	5485	06UJAJ2B14A_D	4769291
109	15.85	5626	1.15	5620	06UJAJ2B16A_D	4769293
255	6.77	2385	2.09	5705	07UJAJ2B7.1A_D	4769320
184	9.38	3313	2.09	6213	07UJAJ2B9.0A_D	4769322
164	10.54	3724	2.09	6402	07UJAJ2B10A_D	4769324
149	11.59	4097	2.09	6550	07UJAJ2B12A_D	4769327
114	15.13	5326	1.81	6976	07UJAJ2B14A_D	4769330
100	17.21	6110	1.67	7021	07UJAJ2B16A_D	4769333
83	20.89	7412	1.48	7261	07UJAJ2B20A_D	4769336
75	22.98	8098	1.39	7261	07UJAJ2B22A_D	4769338
65	26.41	9360	1.24	7261	07UJAJ2B25A_D	4769340
58	29.95	10632	1.15	7238	07UJAJ2B28A_D	4769342
52	33.03	11680	1.05	7238	07UJAJ2B32A_D	4769344
46	37.83	13427	0.95	7216	07UJAJ2B36A_D	4769346
40	42.77	15098	0.85	7193	07UJAJ2B40A_D	4769348

Motors are available from Regal Rexnord or Regal Rexnord distributors.

10 HP/215TC Motor
Falk Part No. 1940403

Conforms to the following specifications:

C-Face motor less base, TEFC, 1750 rpm, 208–230/460 Volts, 3 Phase, 60 Hz, NEMA B, 1.00 Service Factor.

Motors meeting other specifications are available upon request.

UJ — Gearmotor Selection Table

15 HP/1750 RPM/254TC Frame Motor

Approx Output RPM	Exact Ratio	Actual Output Torque (lb-in)	Service Factor	Overhung Load (lb)	Hollow Shaft Basic Drive Gearmotor Less Motor Inch-Dimensioned	
					Drive Designation	Part No.
260	6.77	3507	1.42	5561	07UJAJ2B7.1A_E	4769321
188	9.38	4871	1.42	6006	07UJAJ2B9.0A_E	4769323
167	10.54	5476	1.42	6168	07UJAJ2B10A_E	4769325
152	11.59	6024	1.42	6299	07UJAJ2B12A_E	4769328
116	15.13	7831	1.23	6646	07UJAJ2B14A_E	4769331
102	17.21	8983	1.13	6736	07UJAJ2B16A_E	4769334

Motors are available from Regal Rexnord or Regal Rexnord distributors.

15 HP/254TC Motor
Falk Part No. 1940404

Conforms to the following specifications:

C-Face motor less base, TEFC, 1750 rpm, 208–230/460 Volts, 3 Phase, 60 Hz, NEMA B, 1.15 Service Factor.

Motors meeting other specifications are available upon request.

20 HP/1750 RPM/256TC Frame Motor

Approx Output RPM	Exact Ratio	Actual Output Torque (lb-in)	Service Factor	Overhung Load (lb)	Hollow Shaft Basic Drive Gearmotor Less Motor Inch-Dimensioned	
					Drive Designation	Part No.
260	6.77	4676	1.07	5417	07UJAJ2B7.1A_E	4769321
188	9.38	6495	1.07	5800	07UJAJ2B9.0A_E	4769323
167	10.54	7301	1.07	5934	07UJAJ2B10A_E	4769325
152	11.59	8032	1.07	6047	07UJAJ2B12A_E	4769328

Motors are available from Regal Rexnord or Regal Rexnord distributors.

20 HP/256TC Motor
Falk Part No. 1940405

Conforms to the following specifications:

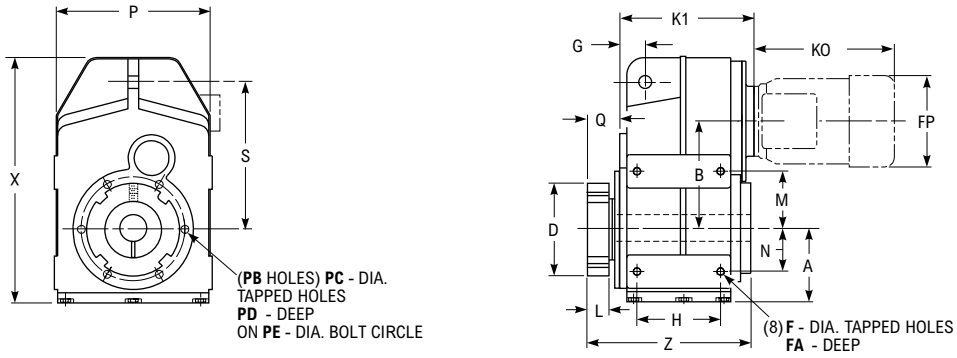
C-Face motor less base, TEFC, 1750 rpm, 208–230/460 Volts, 3 Phase, 60 Hz, NEMA B, 1.15 Service Factor.

Motors meeting other specifications are available upon request.

UJ — Double Reduction Gearmotor/TA Taper Bushing

Sizes 04-07 / Dimensions–Inch

Basic Drive with TA Taper Bushing



Dimensions (in)

Size ①	A	B	D	F	FA	G	H
04	2.99	4.78	3.31	M10 x 1.50	0.59	1.26	3.58
06	3.98	6.51	4.05	M12 x 1.75	0.67	1.61	4.72
07	5.00	7.87	4.30	M16 x 2.00	0.79	1.97	5.75

Size ①	L	M	N	P	PB	PC	PD	PE	Q	S	X	Z
04	1.26	2.09	2.52	6.50	4	M8 x 1.25	0.47	4.21	2.17	6.69	10.75	8.27
06	1.46	3.52	3.37	8.87	8	M10 x 1.50	0.79	5.91	1.91	8.58	14.37	10.18
07	1.46	3.64	4.31	10.87	8	M10 x 1.50	0.79	5.91	1.97	10.94	17.40	11.82

Typical NEMA Motor Dimensions ① (in)

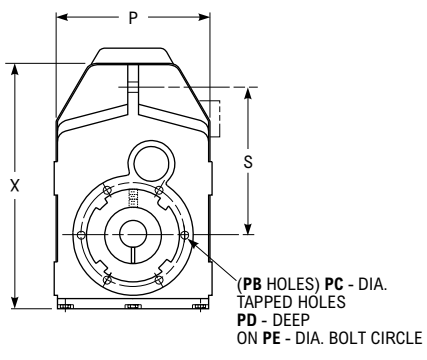
Frame Size	Drive Size				
	All Sizes		04	06	07
	FP	KO (Max)	K1	K1	K1
56C	6.13	12.00	8.11	9.37	10.79
143TC/145TC	7.19	12.00	8.11	9.37	10.79
182TC/184TC	8.50	15.50	7.80	10.35	11.14
213TC/215TC	10.19	16.50	–	10.35	12.32

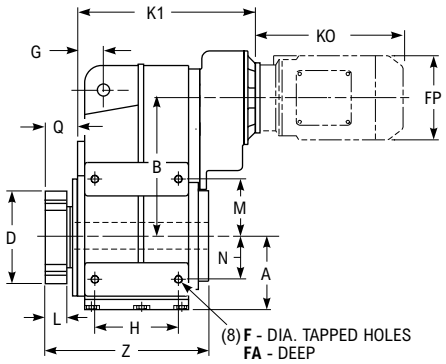
① Refer to page 5 for General Information and Reference Notes.

UJ — Triple Reduction Gearmotor/TA Taper Bushing

Sizes 04-07 / Dimensions–Inch

Basic Drive with TA Taper Bushing





Dimensions (in)

Size ①	A	B	D	F	FA	G	H
04	2.99	4.78	3.31	M10 x 1.50	0.59	1.26	3.58
06	3.98	6.51	4.05	M12 x 1.75	0.67	1.61	4.72
07	5.00	7.87	4.30	M16 x 2.00	0.79	1.97	5.75

Size ①	L	M	N	P	PB	PC	PD	PE	Q	S	X	Z
04	1.26	2.09	2.52	6.50	4	M8 x 1.25	0.47	4.21	2.17	6.69	10.75	8.27
06	1.46	3.52	3.37	8.87	8	M10x 1.50	0.79	5.91	1.97	8.58	14.37	10.18
07	1.46	3.64	4.31	10.87	8	M10x 1.50	0.79	5.91	1.97	10.94	17.40	11.82

Typical NEMA Motor Dimensions ① (in)

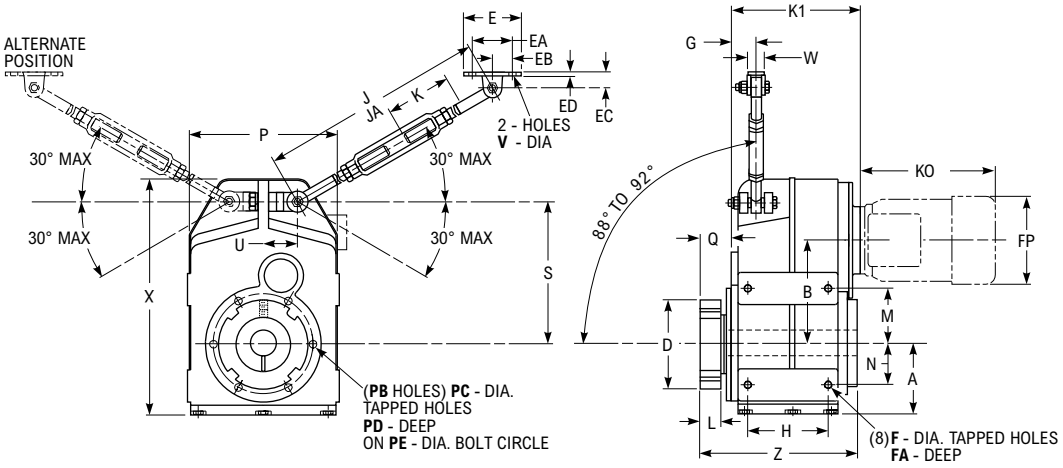
Frame Size	Drive Size				
	All Sizes		04	06	07
	FP	KO (Max)	K1	K1	K1
56C	6.13	12.00	8.62	10.28	11.34
143TC/145TC	7.19	12.00	8.62	10.28	11.34
182TC/184TC	8.50	15.50	8.31	9.96	12.32
213TC/215TC	10.19	16.50	–	–	12.32

① Refer to page 5 for General Information and Reference Notes.

UJ — Double Reduction Shaft-Mounted Gearmotor/TA Taper Bushing and Torque Arm

Sizes 04-07 / Dimensions–Inch

Shaft-Mounted Gearmotor with TA Taper Bushing and Torque Arm Assembly



Dimensions (in)

Size ①	A	B	D	E	EA	EB	EC	ED	F	FA	G	H	J		JA ②		K	
													Min	Max	Min	Max	Std	Min ②
04	2.99	4.78	3.31	3.56	2.50	1.25	1.00	0.25	M10 x 1.50	0.59	1.26	3.58	21.0	27.0	12.5	18.5	8.5	4.12
06	3.98	6.51	4.05	3.56	2.50	1.25	1.00	0.25	M12 x 1.75	0.67	1.61	4.72	21.0	27.0	12.5	18.5	8.5	4.12
07	5.00	7.87	4.30	4.25	3.00	1.50	1.12	0.25	M16 x 2.00	0.79	1.97	5.75	24.0	30.0	15.0	21.0	9.0	4.38

Size ①	L	M	N	P	PB	PC	PD	PE	Q	S	U	V	W	X	Z
04	1.26	2.09	2.52	6.50	4	M8 x 1.25	0.47	4.21	2.17	6.69	1.75	0.406	1.06	10.75	8.27
06	1.46	3.52	3.37	8.87	8	M10 x 1.50	0.79	5.91	1.91	8.58	1.83	0.406	1.06	14.37	10.18
07	1.46	3.64	4.31	10.87	8	M10 x 1.50	0.79	5.91	1.97	10.94	2.52	0.531	1.23	17.40	11.82

Typical NEMA Motor Dimensions ① (in)

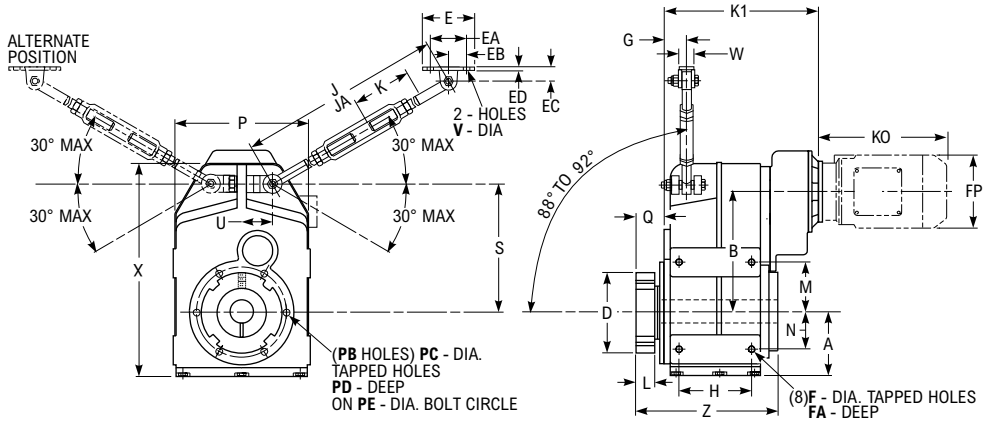
Frame Size	Drive Size				
	All Sizes		04	06	07
	FP	KO (Max)	K1	K1	K1
56C	6.13	12.00	8.11	9.37	10.79
143TC/145TC	7.19	12.00	8.11	9.37	10.79
182TC/184TC	8.50	15.50	7.80	10.35	11.14
213TC/215TC	10.19	16.50	–	10.35	12.32

① Refer to page 5 for General Information and Reference Notes.
② Each rod end may be cut off to minimum K length. JA is total length with cut-off rod ends.

UJ — Triple Reduction Shaft-Mounted Gearmotor/TA Taper Bushing and Torque Arm

Sizes 04-07 / Dimensions–Inch

Shaft-Mounted Gearmotor with TA Taper Bushing and Torque Arm Assembly



Dimensions (in)

Size ①	A	B	D	E	EA	EB	EC	ED	F	FA	G	H	J		JA ②		K	
													Min	Max	Min	Max	Std	Min ②
04	2.99	4.78	3.31	3.56	2.50	1.25	1.00	0.25	M10 x 1.50	0.59	1.26	3.58	21.0	27.0	12.5	18.5	8.5	4.12
06	3.98	6.51	4.05	3.56	2.50	1.25	1.00	0.25	M12 x 1.75	0.67	1.61	4.72	21.0	27.0	12.5	18.5	8.5	4.12
07	5.00	7.87	4.30	4.25	3.00	1.50	1.12	0.25	M16 x 2.00	0.79	1.97	5.75	24.0	30.0	15.0	21.0	9.0	4.38

Size ①	L	M	N	P	PB	PC	PD	PE	Q	S	U	V	W	X	Z
04	1.26	2.09	2.52	6.50	4	M8 x 1.25	0.47	4.21	2.17	6.69	1.75	0.406	1.06	10.75	8.27
06	1.46	3.52	3.37	8.87	8	M10x 1.50	0.79	5.91	1.97	8.58	1.83	0.406	1.06	14.37	10.18
07	1.46	3.64	4.31	10.87	8	M10x 1.50	0.79	5.91	1.97	10.94	2.52	0.531	1.23	17.40	11.82

Typical NEMA Motor Dimensions ① (in)

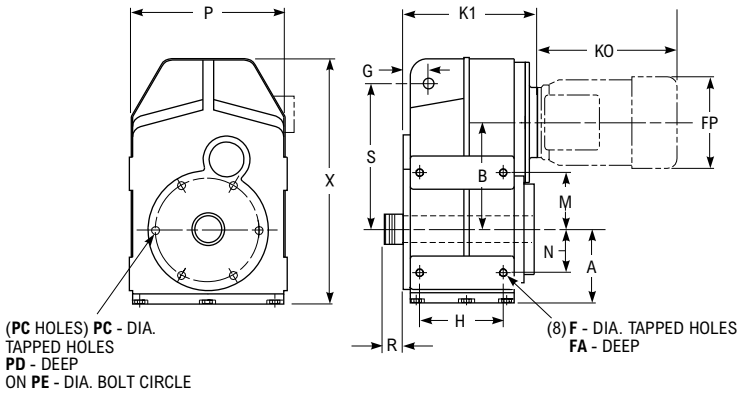
Frame Size	Drive Size				
	All Sizes		04	06	07
	FP	KO (Max)	K1	K1	K1
56C	6.13	12.00	8.62	10.28	11.34
143TC/145TC	7.19	12.00	8.62	10.28	11.34
182TC/184TC	8.50	15.50	8.31	9.96	12.32
213TC/215TC	10.19	16.50	–	–	12.32

① Refer to page 5 for General Information and Reference Notes.
② Each rod end may be cut off to minimum K length. JA is total length with cut-off rod ends.

UJ — Double Reduction Gearmotor/Basic Drive

Sizes 04-07 / Dimensions–Inch

Basic Drive Hollow Low-Speed Shaft—For Use with TCB or Stub Shaft



Dimensions (in)

Size ①	A	B	F	FA	G	H	M	N	P	PB	PC	PD	PE	R	S	X
04	2.99	4.78	M10 x 1.50	0.59	1.26	3.58	2.09	2.52	6.50	4	M8 x 1.25	0.47	4.21	1.33	6.69	10.75
06	3.98	6.51	M12 x 1.75	0.67	1.61	4.72	3.52	3.37	8.87	8	M10 x 1.50	0.79	5.91	1.02	8.58	14.37
07	5.00	7.87	M16 x 2.00	0.79	1.97	5.75	3.64	4.31	10.87	8	M10 x 1.50	0.79	5.91	0.99	10.94	17.40

Typical NEMA Motor Dimensions ① (in)

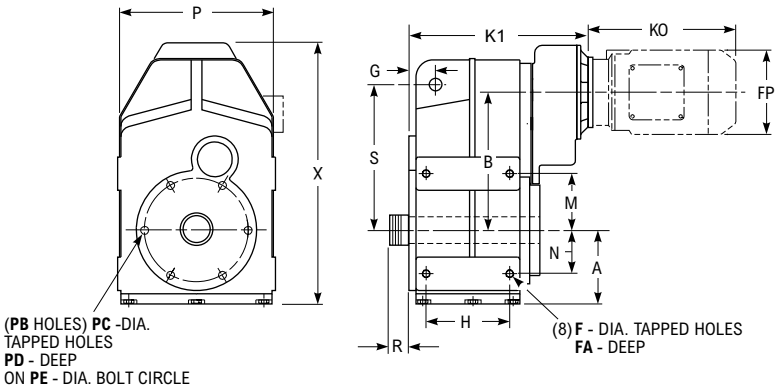
Frame Size	Drive Size				
	All Sizes		04	06	07
	FP	KO (Max)	K1	K1	K1
56C	6.13	12.00	8.11	9.37	10.79
143TC/145TC	7.19	12.00	8.11	9.37	10.79
182TC/184TC	8.50	15.50	7.80	10.35	11.14
213TC/215TC	10.19	16.50	–	10.35	12.32

① Refer to page 5 for General Information and Reference Notes.

UJ — Triple Reduction Gearmotor/Basic Drive

Sizes 04-07 / Dimensions–Inch

Basic Drive Hollow Low-Speed Shaft—For Use with TCB or Stub Shaft



Dimensions (in)

Size ①	A	B	F	FA	G	H	M	N	P	PB	PC	PD	PE	R	S	X
04	2.99	4.78	M10 x 1.50	0.59	1.26	3.58	2.09	2.52	6.50	4	M8 x 1.25	0.47	4.21	1.33	6.69	10.75
06	3.98	6.51	M12 x 1.75	0.67	1.61	4.72	3.52	3.37	8.87	8	M10x 1.50	0.79	5.91	1.02	8.58	14.37
07	5.00	7.87	M16 x 2.00	0.79	1.97	5.75	3.64	4.31	10.87	8	M10x 1.50	0.79	5.91	0.99	10.94	17.40

Typical NEMA Motor Dimensions ① (in)

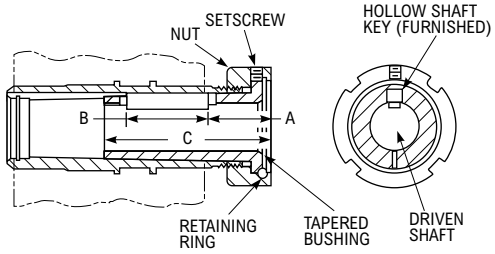
Frame Size	Drive Size				
	All Sizes		04	06	07
	FP	KO (Max)	K1	K1	K1
56C	6.13	12.00	8.62	10.28	11.34
143TC/145TC	7.19	12.00	8.62	10.28	11.34
182TC/184TC	8.50	15.50	8.31	9.96	12.32
213TC/215TC	10.19	16.50	–	–	12.32

① Refer to page 5 for General Information and Reference Notes.

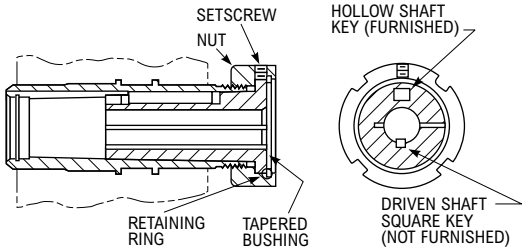
Sizes 04-07 / Dimensions–Inch

TA Taper Bushing

Style No. 1 — Thin-Wall Bushing



Style No. 2 — Thick-Wall Bushing



Dimensions (in)

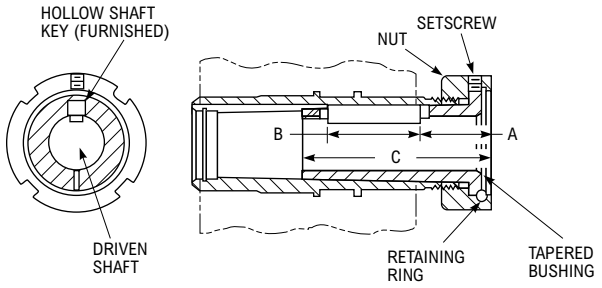
Drive Size	A	B	C Minimum Shaft Engagement	Bushing Size	Part Number ①	Style No.	Driven Shaft Keyway Min Key Length ②	Wt (lb)
04UJ	1.89	2.50	5.00	BU4107J/04UJ-1.000	0769061	2	1/4 x 1/8 x 2-1/2	2.1
				BU4107J/04UJ-1.125	0769062	2	1/4 x 1/8 x 2-1/4	1.8
				BU4107J/04UJ-1.188	0769063	2	1/4 x 1/8 x 2	1.6
				BU4107J/04UJ-1.250	0769064	1	1/4 x 1/8 x 2-1/2	1.5
				BU4107J/04UJ-1.375	6720659	1	3/8 x 3/16 x 2-1/2	1.0
				BU4107J/04UJ-1.438	0769065	1	3/8 x 3/16 x 2-1/2	1.0
06UJ	2.10	2.75	5.55	BU4115J/06UJ-1.500	0769080	2	3/8 x 3/16 x 2-1/4	3.3
				BU4115J/06UJ-1.625	0769081	1	3/8 x 3/16 x 2-3/4	2.9
				BU4115J/06UJ-1.688	0769082	1	3/8 x 3/16 x 2-3/4	2.7
				BU4115J/06UJ-1.750	0769083	1	3/8 x 3/16 x 2-3/4	2.4
				BU4115J/06UJ-1.938	0769084	1	1/2 x 1/4 x 2-3/4	1.7
07UJ	1.56	3.25	5.53	BU4203J/07UJ-2.000	0769124	1	1/2 x 1/4 x 3-1/4	3.0
				BU4203J/07UJ-2.188	0769125	1	1/2 x 1/4 x 3-1/4	3.0

① Consists of bushing, drive key, nut, retaining ring and setscrew.
② Check strength of driven shaft and unfurnished key.

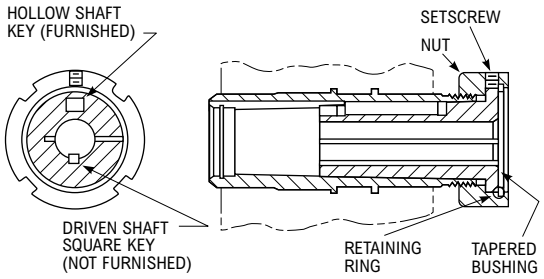
Sizes 04-07 / Dimensions–Inch

TA Taper Bushing

Style No. 1 — Thin-Wall Bushing



Style No. 2 — Thick-Wall Bushing



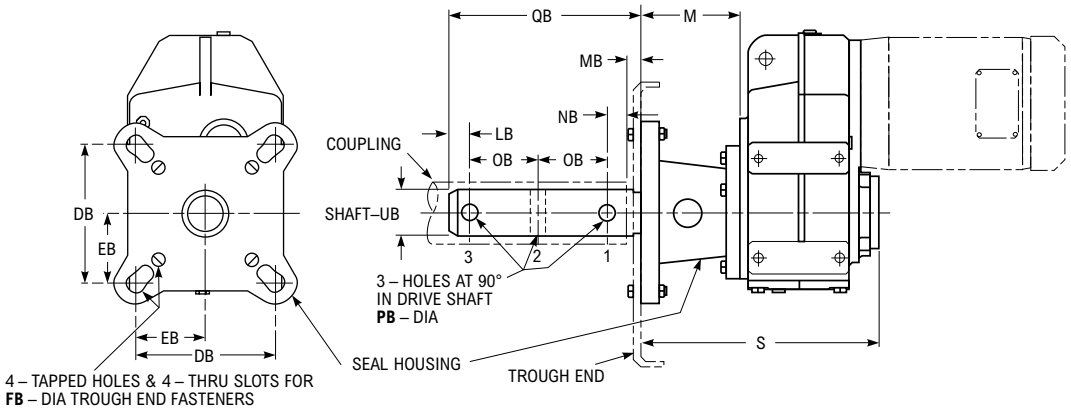
Dimensions (mm)

Drive Size	A	B	C Minimum Shaft Engagement	Bushing Size	Part Number ①	Style No.	Driven Shaft Keyway Min Key Length ②	Wt (kg)
04UJ	48	64	127	BU4107J/04UJ-25	0775900	2	8 x 4 x 70	1.0
				BU4107J/04UJ-30	0775901	2	8 x 4 x 56	0.8
				BU4107J/04UJ-32	0775902	1	10 x 5 x 74	0.7
				BU4107J/04UJ-35	0775768	1	10 x 5 x 74	0.6
06UJ	53	70	141	BU4115J/06UJ-38	0775906	2	10 x 5 x 90	1.5
				BU4115J/06UJ-40	0775907	1	12 x 5 x 82	1.5
				BU4115J/06UJ-42	0775908	1	12 x 5 x 82	1.3
				BU4115J/06UJ-45	0775909	1	14 x 5.5 x 84	1.0
07UJ	40	83	141	BU4203J/07UJ-50	0775432	1	14 x 5.5 x 97	1.4
				BU4203J/07UJ-55	0775915	1	16 x 6 x 99	1.0

① Consists of bushing, drive key, nut, retaining ring and setscrew.
② Check strength of driven shaft and unfurnished key.

Sizes 04-07 / Dimensions–Inch

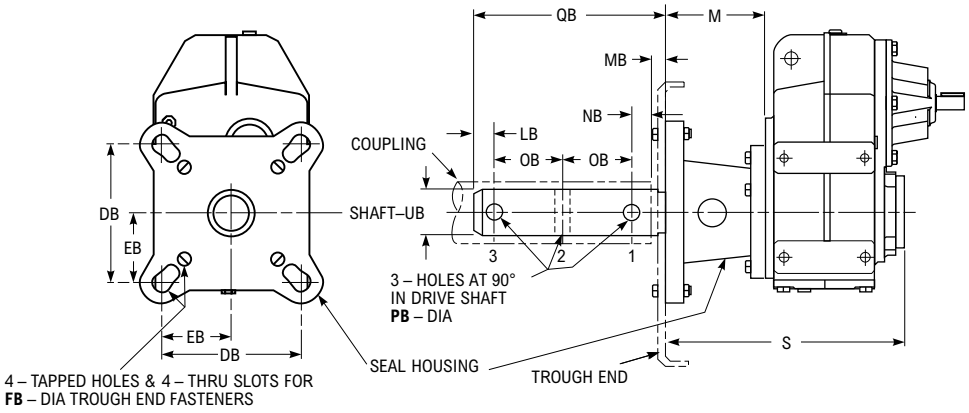
Screw Conveyor Gearmotor with Seal Housing and Driveshaft



All other drive dimensions may be obtained from the standard drive dimension pages.

Consult standard drive selection tables for horsepower and torque ratings.

Screw Conveyor Gear Drive with Seal Housing and Driveshaft



Sizes 04-07 / Dimensions–Inch

Screw Conveyor Compenent Dimensions (in)

Basic Drive Size ①	Screw Conveyor Components										M	S	DB	EB	FB ②	LB	MB	NB	OB	PB	QB	UB ③
	Cplg Dia	Screw Dia	Max Tq (lb-in) ⑧	Driveshaft w/Thrust Plate	Part No.	Trough Spacer	Wt (lb)	Seal Housing	Part No.	Wt (lb)												
04	1.500	6, 9	3,540	DS4107J/04UJ-1.500	6720046	–	8	SH04UJ	0796342	15	4.31 ⑥	10.37 ⑦	4.000	2.000	0.500	0.875	1.250	0.875	3.000	0.531	9.000	1.500
	2.000	9, 12	3,540	DS4107J/04UJ-2.000	6720047	–	10	SH04UJ	0796342	15	4.31 ⑥	10.37 ⑦	5.125	2.562	0.625	0.875	1.250	0.875	3.000	0.656	9.000	2.000
	2.437	12, 14	3,540	DS4107J/04UJ-2.437	6720048	0752578	14	SH04UJ	0796342	15	4.31 ⑥	10.37 ⑦	5.625	2.812	0.625	0.938	1.812	0.938	3.000	0.656	9.688	2.437
	3.000	12-20	3,540	DS4107J/04UJ-3.000	6720049	0752578	18	SH04UJ	0796342	15	4.31 ⑥	10.37 ⑦	6.000	3.000	0.750	1.000	1.875	1.000	3.000	0.781	9.875	3.000
06	1.500	6, 9	5,190	DS4115J/06UJ-1.500 ④	6720050	–	14	SH06UJ	0796343	14	3.87	12.13	4.000	2.000	0.500	3.875	1.250	0.875	3.000	0.531	9.000 ④	1.500
	2.000	9, 12	6,800	DS4115J/06UJ-2.000	6720051	–	14	SH06UJ	0796343	14	3.87	12.13	5.125	2.562	0.625	0.875	1.250	0.875	3.000	0.656	9.000	2.000
	2.437	12, 14	7,960	DS4115J/06UJ-2.437	6720052	–	18	SH06UJ	0796343	14	3.87	12.13	5.625	2.812	0.625	0.938	1.812	0.938	3.000	0.656	9.688	2.437
	3.000	12-20	7,960	DS4115J/06UJ-3.000	6720053	–	23	SH06UJ	0796343	14	3.87	12.13	6.000	3.000	0.750	1.000	1.875	1.000	3.000	0781	9.875	3.000
07	1.500	6, 9	5,190	DS4203J/07UJ-1.500 ④	6720016	–	16	SH07UJ	0796344	15	3.87	13.72	4.000	2.000	0.500	3.875	1.250	0.875	3.000	0.531	9.000 ④	1.500
	2.000	9, 12	10,200	DS4203J/07UJ-2.000 ④	6720017	–	20	SH07UJ	0796344	15	3.87	13.72	5.125	2.562	0.625	3.875	1.250	0.875	3.000	0.656	9.000 ④	2.000
	2.437	12, 14	13,150	DS4203J/07UJ-2.437	6720018	–	21	SH07UJ	0796344	15	3.87	13.72	5.625	2.812	0.625	0.938	1.812	0.938	3.000	0.656	9.688	2.437
	3.000	12-20	15,220	DS4203J/07UJ-3.000	6720019	–	26	SH07UJ	0796344	15	3.87	13.72	6.000	3.000	0.750	1.000	1.875	1.000	3.000	0.781	9.875	3.000

316 Stainless Steel Driveshafts ⑨ (in)

Drive Size	Cplg Dia	Screw Dia	Max Tq (lb-in) ⑧	Driveshaft	Part No.
04	1.500	6, 9	2,675	DSS4107J/04UJ-1.500	6720054
	2.000	9, 12	3,540	DSS4107J/04UJ-2.000	6720055
	2.438	12, 14	3,540	DSS4107J/04UJ-2.438	6720056
	3.000	12-20	3,540	DSS4107J/04UJ-3.000	6720057
06	1.500	6, 9	2,675	DSS4115J/06UJ-1.500	6720058
	2.000	9, 12	6,570	DSS4115J/06UJ-2.000	6720059
	2.438	12, 14	7,960	DSS4115J/06UJ-2.438	6720060
	3.000	12-20	7,960	DSS4115J/06UJ-3.000	6720061
07	1.500	6, 9	2,675	DSS4203J/07UJ-1.500	6720062
	2.000	9, 12	6,570	DSS4203J/07UJ-2.000	6720063
	2.438	12, 14	12,715	DSS4203J/07UJ-2.438	6720064
	3.000	12-20	15,220	DSS4203J/07UJ-3.000	6720065

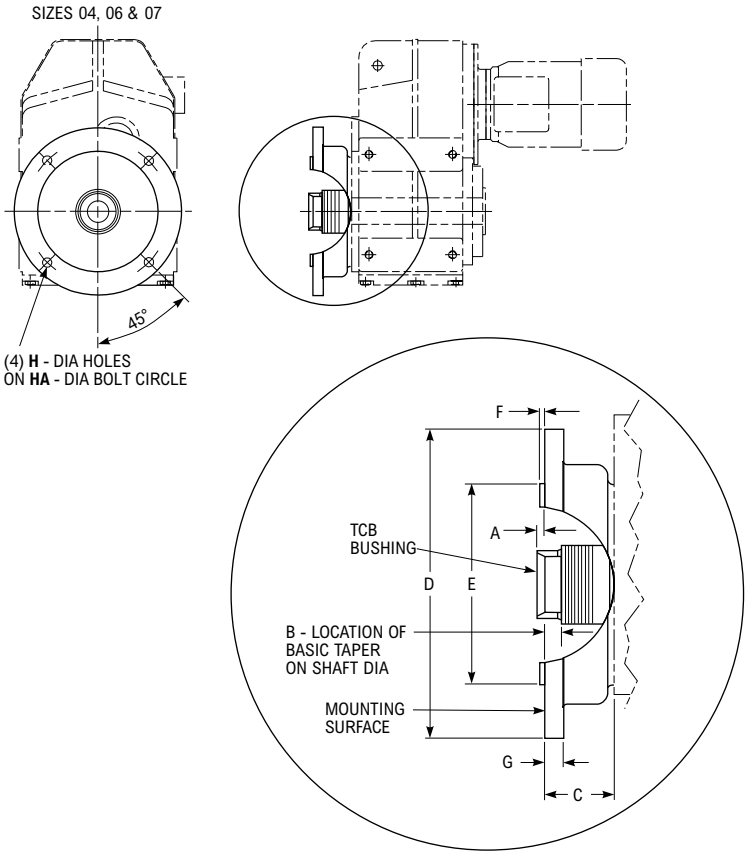
Trough End Seal Sealing Options

Drive Size	Waste Packing Part Number	Nitrile Seal Part Number	Viton® Seal Part Number
04	0925058	2905318	2920370
06	0925058	0912859	2920371
07	0925058	2920372	2920373

① Dimensions are for reference only and are subject to change without notice unless certified.
② Hexagon head screws with UNC thread are furnished by Rexnord for mounting the gear drive to the trough end.
③ Shaft diameters under 3" are held to limits of +.000", -.002". Shaft diameters 3" and over are held to limits of +.000", -.003".
④ Check driveshaft torque & bending capacity and coupling bolt shear & bearing stresses against load to be transmitted.
⑤ Non-CEMA standard dimension.
⑥ M = 4.57" for coupling diameter > 2.00".
⑦ S = 10.63" for coupling diameter > 2.00".
⑧ Check torque & bending capacity of driven shaft and coupling bolt shear against load. Mechanical properties of stainless steel differ from those of carbon steel.
⑨ Furnished with thrust plate kit and stainless steel trough end-to-seal housing fasteners.

Sizes 04-07 / Dimensions–Inch

Basic Drive with TCB Bushing and Flange-Mounted



Dimensions (in)

Drive Size ①	A ② Range	B	C	D	E	F	G	H	HA
04	-.397/-.186	0.44	1.772	7.87	5.12	1.375/1.586	0.47	0.43	6.50
06	-.088/+.138	0.61	1.636	9.84	7.09	1.548/1.774	0.47	0.55	8.46
07	+.018/+.265	0.64	1.636	9.84	7.09	1.654/1.901	0.47	0.55	8.46

① Refer to page 5 for General Information and Reference Notes.
② Negative (-) dimension indicates that the TCB bushing is within the flange register diameter.

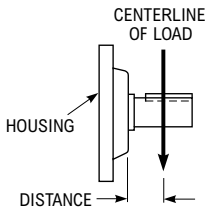
UJ — Overhung Loads

High-Speed and Low-Speed Shaft

Overhung load is imposed upon a shaft when a pinion, sprocket or sheave is used as a power take-off. The magnitude of the load varies with the type of take-off and its proximity to the shaft bearing. Calculate the load and check the result against the tabulated overhung load rating.

Overhung Load Formula:

$$\text{Overhung Load} = \frac{126{,}000 \times hp \times F_c \times L_f}{\text{pitch diameter} \times RPM}$$



F_c = Load Connection Factor

Sprocket or Timing Belt	1.00
Machined Pinion & Gear	1.25
V-Belt	1.50
Flat Belt	2.50

L_f = Load Location Factor

For overhung loads applied at the midpoint of the usable shaft extension, $L_f = 1.00$

Locate the centerline of the load as practical to minimize the overhung load and increase bearing life. The above overhung load formula employs the transmitted horsepower, without Service Factor, providing the overloads, starting loads and brake capacities do not exceed the amounts listed in Basic Information on page 4.

Consult Factory for Higher Overhung Load Ratings — In many cases, overhung load capacity in excess of that published is available. Published ratings are based on a combination of the most unfavorable conditions of rotation, speed, direction of applied load and drive loading. If the actual load should exceed the published capacity, refer full details to Factory; provide complete application information, as well as direction of rotation, location and direction of applied load.

Usable Shaft Extension Midpoint

Drive Size	No. of Reductions	HSS A (in)	LSS B (in)
04	2-3	0.79	1.12
06	2-3	0.79	1.30
07	2	0.98	1.69
07	3	0.79	1.69

Gearmotor Overhung Load Capacity — The overhung load capacity at the low-speed shaft is found in the Gearmotor Selection Tables on pages 15-24.

Gear Drive Overhung Load Capacity — The overhung load capacity at the high-speed shaft and low-speed shaft are found on page 37.

Example

Gear Drive Size = 04UJAK2A40.N_, exact ratio of 38.72:1.

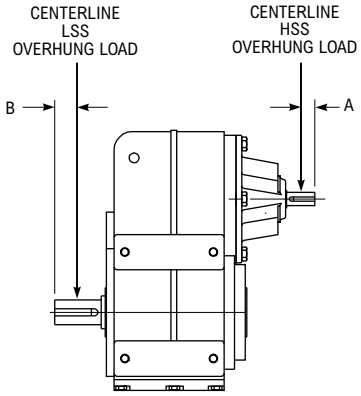
Motor = 0.50 hp at 1750 rpm.

Low speed shaft rpm = 1750 ÷ 38.72 = 45.2 rpm.

3" diameter sprocket mounted on low-speed shaft. Centerline of sprocket overhung load is positioned at B = 1.12 inches. Calculate the overhung load as follows:

$$\text{OHL} = \frac{126{,}000 \times 0.50 \times 1.00 \times 1.00}{3 \times 45.2} = 465 \text{ lb}$$

Allowable OHL on page 37 is 1180 lb and is satisfactory for this selection.



UJ — Gear Drive HSS Overhung Load Ratings

Double & Triple Reductions (lb)

Consult Factory for higher overhung load ratings

Reduction	Ratio	Drive Size ①		
		04	06	07
Double	7.1	295	243	460
	9.0	295	243	460
	14.0	295	195	430
	22.0	300	245	340
	36.0	315	330	235
	56.0	315	360	375
	100.0	330	385	520
Triple	100.0	355	335	390
	160.0	360	340	390
	250.0	360	345	395
	355.0	365	355	410

UJ — Gearmotor & Gear Drive LSS Overhung Load Ratings

Double & Triple Reductions (lb)

Consult Factory for higher overhung load ratings

Approx L.S. Shaft RPM	Drive Size		
	04	06	07
500	400	2540	3820
350	400	2540	3820
200	490	2540	3820
160	500	2540	3820
100	550	2540	3820
63	730	2540	3820
40	980	2540	3820
25	1350	2540	3820
2.5 ②	1600	2540	3820

UJ — Gearmotor & Gear Drive LSS Thrust Loads

Double & Triple Reductions (lb)

Axial Thrust Capacities/Inward or Outward

Thrust capacities tabulated refer to output shafts and are calculated without any overhung loads being applied. In cases where combined axial thrusts and overhung loads are to be applied, refer to Factory.

Approx L.S. Shaft RPM	Drive Size		
	04	06	07
800	928	1250	2310
500	962	1250	2310
350	1090	1250	2310
200	1150	1250	2310
160	1290	1250	2310
100	1390	1250	2310
63	1390	1250	2310
40	1390	1250	2310
25	1390	1250	2310
2.5 ③	1390	1250	2310

① Published ratings are based on a combination of the most unfavorable conditions of loading. For higher ratings, refer full data to Factory.

② The last overhung load value in each Drive Size column applies to all lower output speeds for that drive. Published ratings are based on a combination of the most unfavorable conditions of loading. For higher ratings, refer full data to Factory.

③ The last thrust capacity in each Drive Size column applies to all lower output speeds for that drive.

UJ — Gearmotor & Gear Drive Moments of Inertia

Double Reduction

WR^2 (lb-in^2) Referred to H.S. Shaft ①

Ratio	Drive Size		
	04	06	07
7.1	1.35	5.64	12.68
9.0	0.813	3.37	7.62
10	0.711	2.87	6.46
12	0.598	2.45	5.71
14	0.444	1.83	4.00
16	0.390	1.59	3.45
20	0.327	1.34	2.82
22	0.296	1.18	2.54
25	0.268	1.05	2.17
28	0.256	1.00	2.06
32	0.234	0.933	1.76
36	0.214	0.841	1.59
40	0.206	0.813	1.44
50	0.191	0.742	1.30
56	0.178	0.701	1.19
63	0.173	0.680	1.13
71	0.168	0.649	1.04
90	0.164	0.642	1.01
100	0.161	0.629	0.977

Triple Reduction

WR^2 (lb-in^2) Referred to H.S. Shaft ①

Ratio	Drive Size		
	04	06	07
63	0.20	0.32	0.92
71	0.19	0.29	0.81
100	0.176	0.253	0.943
112	0.171	0.231	0.878
125	0.168	0.213	0.803
160	0.164	0.205	0.779
180	0.160	0.190	0.718
200	0.158	0.177	0.683
225	0.156	0.172	0.670
280	0.154	0.167	0.639
315	0.153	0.164	0.632
355	0.152	0.161	0.622

① Values shown in the table are referred to the drive high-speed shaft. The WR^2 referred to the hollow (low-speed) shaft equals the exact total ratio squared times the H.S. shaft WR^2.

UJ — Gear Drive Horsepower and Torque Ratings

2400 High-Speed Shaft RPM/Double Reduction
(Torque is in lb-in at Low-Speed Shaft)

Ratio Code	Approx L.S. Shaft RPM	Horsepower			Torque		
		Drive Size			Drive Size		
		04	06	07	04	06	07
7.1	337.55	10.53	24.47	29.85	1680	3880	5150
9.0	266.37	13.28	21.31	29.97	2040	4750	7160
10.	240.00	12.64	20.26	29.98	2140	5060	8050
12.	200.00	11.86	19.18	29.98	2280	5380	8850
14.	171.43	10.47	17.02	26.21	2560	6060	10100
16.	150.00	9.79	15.90	24.41	2720	6420	10700
20.	120.00	8.55	14.44	21.99	2920	6950	11700
22.	109.09	7.84	11.82	20.84	2960	6550	12200
25.	96.00	7.04	11.48	19.18	3030	7400	12900
28.	85.71	6.30	10.78	17.56	3080	7780	13400
32.	75.00	5.84	10.24	19.40	3130	7870	14800
36.	66.67	5.18	8.65	15.57	3200	7880	15000
40.	60.00	4.82	8.10	13.77	3240	7880	15000
50.	48.00	4.00	6.53	11.87	3260	7880	15000
56.	42.86	3.36	5.54	9.96	3260	7880	15000
63.	38.10	2.99	5.05	9.09	3260	7880	15000
71.	33.80	2.07	3.33	7.37	2640	6370	14600
90.	26.67	1.64	2.65	5.00	2380	5640	11400
100	24.00	1.28	1.74	3.84	2120	4150	9710

1750 High-Speed Shaft RPM/Double Reduction
(Torque is in lb-in at Low-Speed Shaft)

Ratio Code	Approx L.S. Shaft RPM	Horsepower			Torque		
		Drive Size			Drive Size		
		04	06	07	04	06	07
7.1	246.13	8.45	18.00	21.20	1840	3920	4980
9.0	194.23	7.31	15.70	21.20	2240	4800	6920
10.	175.00	6.98	14.90	21.20	2360	5100	7780
12.	145.83	6.54	14.10	21.20	2510	5420	8560
14.	125.00	5.77	12.50	19.20	2810	6110	10200
16.	109.38	5.36	11.70	17.90	2970	6480	10800
20.	87.50	4.51	10.60	16.10	3060	7010	11800
22.	79.55	4.13	8.60	15.30	3110	6550	12300
25.	70.00	3.71	8.36	14.00	3180	7400	13000
28.	62.50	3.34	7.86	13.00	3240	7780	13600
32.	54.69	3.05	7.46	12.30	3260	7880	14200
36.	48.61	2.65	6.28	11.20	3260	7850	14800
40.	43.75	2.44	5.90	9.90	3260	7880	14800
50.	35.00	2.04	4.77	8.55	3260	7890	14800
56.	31.25	1.70	4.05	7.18	3260	7890	14800
63.	27.78	1.46	3.69	6.56	3150	7860	14800
71.	24.65	1.09	2.33	5.05	2730	6070	13600
90.	19.44	0.86	1.85	3.55	2460	5380	11000
100	17.50	0.68	1.28	2.81	2190	4150	9670

2400 High-Speed Shaft RPM/Triple Reduction
(Torque is in lb-in at Low-Speed Shaft)

Ratio Code	Approx L.S. Shaft RPM	Horsepower			Torque		
		Drive Size			Drive Size		
		04	06	07	04	06	07
100	24.00	1.14	2.14	3.65	2870	5470	10000
112	21.43	1.06	1.88	3.30	2940	5280	9620
125	19.20	1.00	1.69	2.89	3030	5460	10000
160	15.00	0.88	1.59	2.76	3150	5580	10200
180	13.33	0.76	1.39	2.36	3260	5860	10800
200	12.00	0.65	1.21	2.09	3260	6140	11300
225	10.67	0.59	1.13	1.94	3260	6430	11500
280	8.57	0.49	1.03	1.72	3260	6860	12500
315	7.62	0.43	0.96	1.65	3260	7230	13300
355	6.76	0.38	0.83	1.52	3260	7130	13800

1750 High-Speed Shaft RPM/Triple Reduction
(Torque is in lb-in at Low-Speed Shaft)

Ratio Code	Approx L.S. Shaft RPM	Horsepower			Torque		
		Drive Size			Drive Size		
		04	06	07	04	06	07
100	17.50	0.89	1.65	2.83	3020	5740	10500
112	15.63	0.83	1.44	2.54	3130	5540	10100
125	14.00	0.79	1.32	2.23	3260	5810	10500
160	10.94	0.67	1.25	2.13	3260	6010	10700
180	9.72	0.56	1.12	1.87	3260	6470	11700
200	8.75	0.48	1.00	1.70	3260	6900	12500
225	7.78	0.43	0.93	1.61	3260	7240	12900
280	6.25	0.36	0.85	1.42	3260	7730	14000
315	5.56	0.31	0.79	1.36	3260	8090	14900
355	4.93	0.28	0.63	1.27	3260	7280	15600

UJ — Gear Drive Horsepower and Torque Ratings

1430 High-Speed Shaft RPM/Double Reduction
(Torque is in lb-in at Low-Speed Shaft)

Ratio Code	Approx L.S. Shaft RPM	Horsepower			Torque		
		Drive Size			Drive Size		
		04	06	07	04	06	07
7.1	201.41	8.94	16.87	17.86	1960	4490	5170
9.0	158.89	7.75	14.86	17.90	2380	5560	7180
10.	143.00	7.39	14.10	17.91	2510	5910	8070
12.	119.17	6.94	13.34	17.92	2670	6280	8880
14.	102.14	6.11	11.85	17.93	2990	7080	11600
16.	89.38	5.51	11.08	16.99	3060	7510	12500
20.	71.50	4.60	9.74	15.12	3160	7870	13500
22.	65.00	4.25	7.04	14.25	3210	6550	14000
25.	57.20	3.79	6.84	13.29	3260	7400	15000
28.	51.07	3.31	6.43	11.72	3260	7790	15000
32.	44.69	3.04	6.12	11.72	3260	7890	15000
36.	39.72	2.61	5.16	9.27	3260	7890	15000
40.	35.75	2.40	4.83	8.20	3260	7890	15000
50.	28.60	1.97	3.89	7.08	3260	7890	15000
56.	25.54	1.65	3.30	5.93	3260	7890	15000
63.	22.70	1.49	3.02	5.42	3260	7890	15000
71.	20.14	1.10	2.09	4.39	2790	6710	14600
90.	15.89	0.86	1.63	2.98	2510	5830	11400
100	14.30	0.66	1.04	2.29	2240	4150	9720

1170 High-Speed Shaft RPM/Double Reduction
(Torque is in lb-in at Low-Speed Shaft)

Ratio Code	Approx L.S. Shaft RPM	Horsepower			Torque		
		Drive Size			Drive Size		
		04	06	07	04	06	07
7.1	164.79	6.33	13.50	14.00	2090	4430	4990
9.0	130.00	5.47	11.70	14.00	2530	5430	6930
10.	117.00	5.23	11.10	14.00	2670	5780	7790
12.	97.50	4.90	10.50	14.00	2840	6140	8570
14.	83.57	4.06	9.35	14.00	2990	6910	11200
16.	73.13	3.74	8.71	13.40	3130	7300	12200
20.	58.50	3.18	7.46	12.10	3260	7450	13300
22.	53.18	2.86	5.70	11.40	3260	6560	13900
25.	46.80	2.52	5.54	10.50	3260	7410	14700
28.	41.79	2.22	5.21	9.36	3260	7790	14800
32.	36.56	2.02	4.95	8.48	3260	7890	14800
36.	32.50	1.76	4.16	7.41	3260	7850	14800
40.	29.25	1.62	3.91	6.56	3260	7880	14800
50.	23.40	1.35	3.16	5.66	3260	7900	14800
56.	20.89	1.13	2.69	4.76	3260	7900	14800
63.	18.57	1.00	2.46	4.35	3260	7900	14800
71.	16.48	0.75	1.61	3.58	2850	6330	14600
90.	13.00	0.60	1.28	2.44	2560	5600	11400
100	11.70	0.47	0.85	1.87	2280	4150	9720

1430 High-Speed Shaft RPM/Triple Reduction
(Torque is in lb-in at Low-Speed Shaft)

Ratio Code	Approx L.S. Shaft RPM	Horsepower			Torque		
		Drive Size			Drive Size		
		04	06	07	04	06	07
100	14.30	0.77	1.44	2.46	3260	6160	11300
112	12.77	0.70	1.26	2.21	3260	5950	10800
125	11.44	0.64	1.15	1.95	3260	6270	11300
160	8.94	0.54	1.10	1.87	3260	6480	11600
180	7.94	0.45	0.98	1.64	3260	6980	12600
200	7.15	0.39	0.88	1.48	3260	7450	13400
225	6.36	0.35	0.81	1.40	3260	7810	13900
280	5.11	0.29	0.73	1.24	3260	8120	15100
315	4.54	0.25	0.64	1.19	3260	8120	16100
355	4.03	0.22	0.52	1.03	3260	7430	15700

1170 High-Speed Shaft RPM/Triple Reduction
(Torque is in lb-in at Low-Speed Shaft)

Ratio Code	Approx L.S. Shaft RPM	Horsepower			Torque		
		Drive Size			Drive Size		
		04	06	07	04	06	07
100	11.70	0.63	1.24	2.09	3260	6560	11800
112	10.45	0.57	1.11	1.89	3260	6420	11400
125	9.36	0.52	1.01	1.71	3260	6770	12200
160	7.31	0.45	0.97	1.64	3260	7010	12500
180	6.50	0.37	0.87	1.44	3260	7550	13600
200	5.85	0.32	0.77	1.31	3260	8060	14500
225	5.20	0.29	0.69	1.24	3260	8120	15100
280	4.18	0.24	0.60	1.10	3260	8120	16300
315	3.71	0.21	0.53	1.05	3260	8120	17400
355	3.30	0.18	0.43	0.85	3260	7590	15700

UJ — Gear Drive Horsepower and Torque Ratings

870 High-Speed Shaft RPM/Double Reduction
(Torque is in lb-in at Low-Speed Shaft)

Ratio Code	Approx L.S. Shaft RPM	Horsepower			Torque		
		Drive Size			Drive Size		
		04	06	07	04	06	07
7.1	122.54	5.19	10.30	10.60	2270	4500	5000
9.0	96.67	4.49	9.59	10.60	2760	5880	6940
10.	87.00	4.28	9.14	10.60	2900	6290	7800
12.	72.50	3.79	8.23	10.60	2920	6360	8580
14.	62.14	3.06	7.29	10.60	2990	7150	11200
16.	54.38	2.82	6.57	10.60	3130	7300	12700
20.	43.50	2.39	5.62	9.22	3260	7450	13500
22.	39.55	2.16	4.30	8.72	3260	6560	14000
25.	34.80	1.90	4.18	7.99	3260	7410	14800
28.	31.07	1.68	3.93	7.06	3260	7790	14800
32.	27.19	1.52	3.74	6.40	3260	7900	14800
36.	24.17	1.32	3.14	5.59	3260	7850	14800
40.	21.75	1.22	2.95	4.95	3260	7880	14800
50.	17.40	1.02	2.39	4.27	3260	7900	14800
56.	15.54	0.85	2.03	3.59	3260	7900	14800
63.	13.81	0.75	1.85	3.28	3260	7900	14800
71.	12.25	0.58	1.25	2.70	2930	6510	14600
90.	9.67	0.46	0.99	1.84	2630	5760	11400
100	8.70	0.36	0.64	1.41	2350	4150	9720

500 High-Speed Shaft RPM/Double Reduction
(Torque is in lb-in at Low-Speed Shaft)

Ratio Code	Approx L.S. Shaft RPM	Horsepower			Torque		
		Drive Size			Drive Size		
		04	06	07	04	06	07
7.1	70.42	8.14	5.93	6.27	2690	4510	5190
9.0	55.56	7.04	5.51	6.28	3260	5890	7200
10.	50.00	6.35	5.30	6.28	3260	6350	8090
12.	41.67	5.60	4.72	6.28	3260	6360	8900
14.	35.71	4.43	4.48	6.27	3260	7660	11600
16.	31.25	3.89	4.02	6.27	3260	7800	13200
20.	25.00	3.15	3.42	5.29	3260	7900	13500
22.	22.73	2.83	2.47	4.98	3260	6560	14000
25.	20.00	2.51	2.39	4.65	3260	7410	15000
28.	17.86	2.19	2.25	4.10	3260	7800	15000
32.	15.63	1.97	2.14	4.10	3260	7900	15000
36.	13.89	1.71	1.81	3.24	3260	7900	15000
40.	12.50	1.60	1.70	2.87	3260	7930	15000
50.	10.00	1.33	1.37	2.47	3260	7930	15000
56.	8.93	1.07	1.16	2.07	3260	7930	15000
63.	7.94	0.96	1.06	1.89	3260	7930	15000
71.	7.04	0.81	0.84	1.54	3100	7690	14600
90.	5.56	0.64	0.57	1.04	2790	5840	11400
100	5.00	0.49	0.36	0.80	2490	4150	9730

870 High-Speed Shaft RPM/Triple Reduction
(Torque is in lb-in at Low-Speed Shaft)

Ratio Code	Approx L.S. Shaft RPM	Horsepower			Torque		
		Drive Size			Drive Size		
		04	06	07	04	06	07
100	8.70	0.48	1.04	1.75	3260	7280	13100
112	7.77	0.43	0.93	1.58	3260	7140	12600
125	6.96	0.39	0.85	1.43	3260	7540	13500
160	5.44	0.34	0.81	1.37	3260	7800	13900
180	4.83	0.28	0.70	1.21	3260	8120	15100
200	4.35	0.24	0.59	1.10	3260	8120	16200
225	3.87	0.22	0.52	1.04	3260	8120	16800
280	3.11	0.18	0.45	0.92	3260	8120	18200
315	2.76	0.16	0.40	0.85	3260	8120	18700
355	2.45	0.14	0.34	0.64	3260	7820	15700

500 High-Speed Shaft RPM/Triple Reduction
(Torque is in lb-in at Low-Speed Shaft)

Ratio Code	Approx L.S. Shaft RPM	Horsepower			Torque		
		Drive Size			Drive Size		
		04	06	07	04	06	07
100	5.00	0.27	0.66	1.23	3260	8120	16100
112	4.46	0.25	0.60	1.11	3260	8120	15600
125	4.00	0.22	0.52	1.01	3260	8120	16700
160	3.13	0.19	0.48	0.97	3260	8120	17200
180	2.78	0.16	0.40	0.85	3260	8120	18700
200	2.50	0.14	0.33	0.72	3260	8120	18700
225	2.22	0.12	0.30	0.66	3260	8120	18700
280	1.79	0.10	0.25	0.54	3260	8120	18700
315	1.59	0.09	0.22	0.48	3260	8120	18700
355	1.41	0.08	0.20	0.36	3260	8120	15700

UJ — Gear Drive Horsepower and Torque Ratings

250 High-Speed Shaft RPM/Double Reduction
(Torque is in lb-in at Low-Speed Shaft)

Ratio Code	Approx L.S. Shaft RPM	Horsepower			Torque		
		Drive Size			Drive Size		
		04	06	07	04	06	07
7.1	35.16	6.25	2.96	3.14	2750	4510	5200
9.0	27.75	5.28	2.75	3.14	3260	5890	7200
10.	25.00	4.80	2.65	3.14	3260	6350	8090
12.	20.83	4.21	2.36	3.14	3260	6360	8900
14.	17.86	3.31	2.24	3.14	3260	7660	11600
16.	15.63	2.93	2.01	3.14	3260	7800	13200
20.	12.50	2.35	1.71	2.64	3260	7900	13500
22.	11.36	2.13	1.23	2.49	3260	6570	14000
25.	10.00	1.87	1.20	2.32	3260	7410	15000
28.	8.93	1.65	1.13	2.05	3260	7800	15000
32.	7.81	1.49	1.09	2.05	3260	8060	15000
36.	6.94	1.28	0.93	1.62	3260	8120	15000
40.	6.25	1.17	0.87	1.43	3260	8120	15000
50.	5.00	0.96	0.70	1.24	3260	8120	15000
56.	4.46	0.80	0.59	1.04	3260	8120	15000
63.	3.97	0.75	0.54	0.95	3260	8120	15000
71.	3.52	0.64	0.42	0.77	3260	7690	14600
90.	2.78	0.49	0.29	0.52	3000	5840	11400
100	2.50	0.39	0.18	0.40	2680	4150	9730

250 High-Speed Shaft RPM/Triple Reduction
(Torque is in lb-in at Low-Speed Shaft)

Ratio Code	Approx L.S. Shaft RPM	Horsepower			Torque		
		Drive Size			Drive Size		
		04	06	07	04	06	07
100	2.50	0.14	0.33	0.70	3260	8120	18400
112	2.23	0.12	0.30	0.65	3260	8120	18300
125	2.00	0.11	0.26	0.55	3260	8120	18400
160	1.56	0.10	0.24	0.52	3260	8120	18500
180	1.39	0.08	0.20	0.43	3260	8120	18700
200	1.25	0.07	0.17	0.36	3260	8120	18700
225	1.11	0.06	0.15	0.33	3260	8120	18700
280	0.89	0.05	0.13	0.27	3260	8120	18700
315	0.79	0.04	0.11	0.24	3260	8120	18700
355	0.70	0.04	0.10	0.18	3260	8120	15700

Hollow Low-Speed Shaft Basic Gear Drive — Double Reduction

Drive Size	Ratio Code	Exact Ratio	Drive Designation	Drive Part No.
04	7.1	6.262	04UJAJ2B7.1N_	4769161
04	9.0	8.784	04UJAJ2B9.0N_	4769162
04	10.	9.68	04UJAJ2B10.N_	4769163
04	12.	10.99	04UJAJ2B12.N_	4769164
04	14.	13.96	04UJAJ2B14.N_	4769165
04	16.	15.86	04UJAJ2B16.N_	4769166
04	20.	19.46	04UJAJ2B20.N_	4769167
04	22.	21.59	04UJAJ2B22.N_	4769168
04	25.	24.52	04UJAJ2B25.N_	4769169
04	28.	27.86	04UJAJ2B28.N_	4769170
04	32.	30.68	04UJAJ2B32.N_	4769171
04	36.	35.30	04UJAJ2B36.N_	4769172
04	40.	38.37	04UJAJ2B40.N_	4769173
04	50.	46.07	04UJAJ2B50.N_	4769174
04	56.	55.28	04UJAJ2B56.N_	4769175
04	63.	62.29	04UJAJ2B63.N_	4769176
04	71.	72.41	04UJAJ2B71.N_	4769177
04	90.	82.18	04UJAJ2B90.N_	4769178
04	100	93.43	04UJAJ2B100N_	4769179
06	7.1	7.494	06UJAJ2B7.1N_	4769180
06	9.0	8.750	06UJAJ2B9.0N_	4769181
06	10.	9.81	06UJAJ2B10.N_	4769182
06	12.	11.00	06UJAJ2B12.N_	4769183
06	14.	13.98	06UJAJ2B14.N_	4769184
06	16.	15.85	06UJAJ2B16.N_	4769185
06	20.	18.90	06UJAJ2B20.N_	4769186
06	22.	21.76	06UJAJ2B22.N_	4769187
06	25.	25.31	06UJAJ2B25.N_	4769188
06	28.	28.32	06UJAJ2B28.N_	4769189
06	32.	30.18	06UJAJ2B32.N_	4769190
06	36.	35.77	06UJAJ2B36.N_	4769191
06	40.	38.19	06UJAJ2B40.N_	4769192
06	50.	47.40	06UJAJ2B50.N_	4769193
06	56.	55.89	06UJAJ2B56.N_	4769194
06	63.	61.20	06UJAJ2B63.N_	4769195
06	71.	75.00	06UJAJ2B71.N_	4769196
06	90.	83.59	06UJAJ2B90.N_	4769197
06	100	93.75	06UJAJ2B100N_	4769198
07	7.1	6.772	07UJAJ2B7.1N_	4769199
07	9.0	9.380	07UJAJ2B9.0N_	4769200
07	10	10.54	07UJAJ2B10.N_	4769201
07	12	11.59	07UJAJ2B12.N_	4769202
07	14	15.13	07UJAJ2B14.N_	4769203
07	16.	17.21	07UJAJ2B16.N_	4769204
07	20.	20.89	07UJAJ2B20.N_	4769205
07	22.	22.98	07UJAJ2B22.N_	4769206
07	25.	26.41	07UJAJ2B25.N_	4769207
07	28.	29.95	07UJAJ2B28.N_	4769208
07	32.	33.03	07UJAJ2B32.N_	4769209
07	36.	37.83	07UJAJ2B36.N_	4769210
07	40.	42.77	07UJAJ2B40.N_	4769211
07	50.	49.59	07UJAJ2B50.N_	4769212
07	56.	59.14	07UJAJ2B56.N_	4769213
07	63.	64.77	07UJAJ2B63.N_	4769214
07	71.	77.72	07UJAJ2B71.N_	4769215
07	90.	89.42	07UJAJ2B90.N_	4769216
07	100	99.36	07UJAJ2B100N_	4769217

Hollow Low-Speed Shaft Basic Gear Drive — Triple Reduction

Drive Size	Ratio Code	Exact Ratio	Drive Designation	Drive Part No.
04	100	99.52	04UJAJ3B100N_	4769406
04	112	109.7	04UJAJ3B112N_	4769407
04	125	120.7	04UJAJ3B125N_	4769408
04	160	141.5	04UJAJ3B160N_	4769409
04	180	169.7	04UJAJ3B180N_	4769410
04	200	197.8	04UJAJ3B200N_	4769411
04	225	219.8	04UJAJ3B225N_	4769412
04	280	264.7	04UJAJ3B280N_	4769413
04	315	303.4	04UJAJ3B315N_	4769414
04	355	344.8	04UJAJ3B355N_	4769415
06	100	101.4	06UJAJ3B100N_	4769416
06	112	111.6	06UJAJ3B112N_	4769417
06	125	128.4	06UJAJ3B125N_	4769418
06	160	139.6	06UJAJ3B160N_	4769419
06	180	167.6	06UJAJ3B180N_	4769420
06	200	201.1	06UJAJ3B200N_	4769421
06	225	226.6	06UJAJ3B225N_	4769422
06	280	263.4	06UJAJ3B280N_	4769423
06	315	298.9	06UJAJ3B315N_	4769424
06	355	339.8	06UJAJ3B355N_	4769425
07	100	108.6	07UJAJ3B100N_	4769426
07	112	115.7	07UJAJ3B112N_	4769427
07	125	137.1	07UJAJ3B125N_	4769428
07	160	146.4	07UJAJ3B160N_	4769429
07	180	181.7	07UJAJ3B180N_	4769430
07	200	214.2	07UJAJ3B200N_	4769431
07	225	234.6	07UJAJ3B225N_	4769432
07	280	287.5	07UJAJ3B280N_	4769433
07	315	320.4	07UJAJ3B315N_	4769434
07	355	359.4	07UJAJ3B355N_	4769435

UJ — Gear Drive Thermal Horsepower Ratings ①

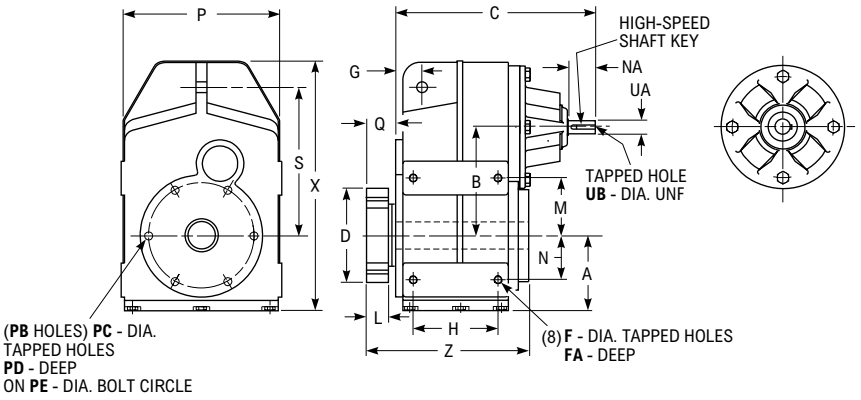
Overall Ratio	High-Speed Shaft RPM	Drive Size		
		04	06	07
5 to 20	2400	10.6	19.1	27.2
	1750	11.0	20.1	28.6
	<1450	11.3	20.7	29.5
22 to 56	2400	8.2	14.6	21.1
	1750	9.9	19.4	26.0
	<1450	9.9	19.4	26.0
63 & Over	2400	5.0	10.6	14.9
	1750	9.0	16.6	22.7
	<1450	9.0	16.6	22.7

① Thermal hp ratings are based on standard horizontal (Mounting #1) position. For ratings in the other positions, consult Factory.

UJ — Double Reduction Gear Drive/TA Taper Bushing

Sizes 04-07 / Dimensions–Inch

Basic Gear Drive with TA Taper Bushing



Dimensions (in)

Size ①	A	B	C	D	F	FA	G	H	L	M	N	NA
04	2.99	4.78	9.92	3.31	M10 x 1.50	0.59	1.26	3.58	1.26	2.09	2.52	1.57
06	3.98	6.51	11.77	4.05	M12 x 1.75	0.67	1.61	4.72	1.46	3.52	3.37	1.57
07	5.00	7.87	13.27	4.30	M16 x 2.00	0.79	1.97	5.75	1.46	3.64	4.31	1.97

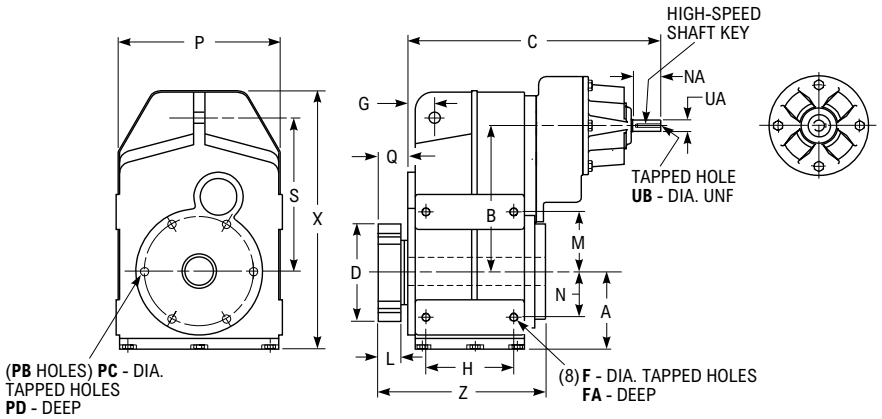
Size ①	P	PB	PC	PD	PE	S	H.S. Shaft			X	Z
							UA +0000 -.0005	Key	UB		
04	6.50	4	M8 x 1.25	0.47	4.21	6.69	0.6250	0.20 x 0.20 x 1.28	1/4	10.75	8.27
06	8.86	8	M10 x 1.50	0.79	5.91	8.58	0.7500	0.24 x 0.24 x 1.28	1/4	14.37	10.18
07	10.87	8	M10 x 1.50	0.79	5.91	10.94	0.8750	0.31 x 0.31 x 1.28	5/16	17.40	11.82

① Refer to page 5 for General Information and Reference Notes.

UJ — Triple Reduction Gear Drive/TA Taper Bushing

Sizes 04-07 / Dimensions–Inch

Basic Gear Drive with TA Taper Bushing



Dimensions (in)

Size ①	A	B	C	D	F	FA	G	H	L	M	N	NA
04	2.99	4.78	10.43	3.31	M10 x 1.50	0.59	1.26	3.58	1.26	2.09	2.52	1.57
06	3.98	6.51	12.09	4.05	M12 x 1.75	0.67	1.61	4.72	1.46	3.52	3.37	1.57
07	5.00	7.87	13.74	4.30	M16 x 2.00	0.79	1.97	5.75	1.46	3.64	4.31	1.57

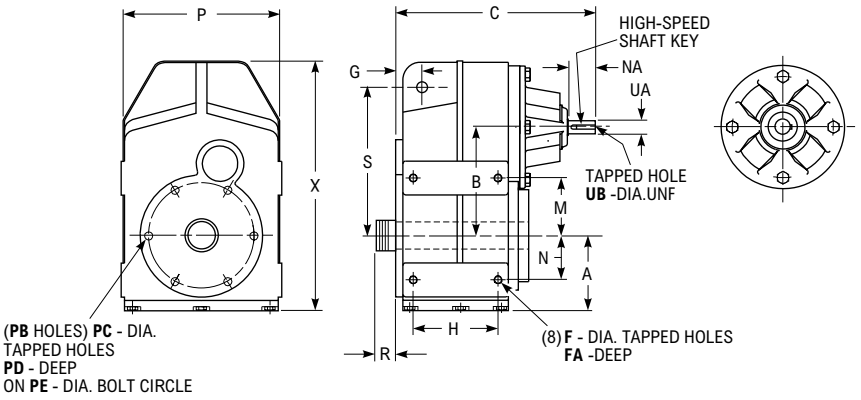
Size ①	P	PB	PC	PD	PE	S	H.S. Shaft			X	Z
							UA +0000 -.0005	Key	UB		
04	6.50	4	M8 x 1.25	0.47	4.21	6.69	0.6250	0.20 x 0.20 x 1.28	1/4	10.75	8.27
06	8.86	8	M10 x 1.50	0.79	5.91	8.58	1.6250	0.20 x 0.20 x 1.28	1/4	14.37	10.18
07	10.87	8	M10 x 1.50	0.79	5.91	10.94	1.7500	0.24 x 0.24 x 1.28	1/4	17.40	11.82

① Refer to page 5 for General Information and Reference Notes.

UJ — Double Reduction Basic Gear Drive

Sizes 04-07 / Dimensions–Inch

Basic Gear Drive Hollow Low-Speed Shaft—For Use with TCB or Stub Shaft



Dimensions (in)

Size ①	A	B	C	F	FA	G	H	M	N	NA
04	2.99	4.78	9.92	M10 x 1.50	0.59	1.26	3.58	2.09	2.52	1.57
06	3.98	6.51	11.77	M12 x 1.75	0.67	1.61	4.72	3.52	3.37	1.57
07	5.00	7.87	13.27	M16 x 2.00	0.79	1.97	5.75	3.64	4.31	1.97

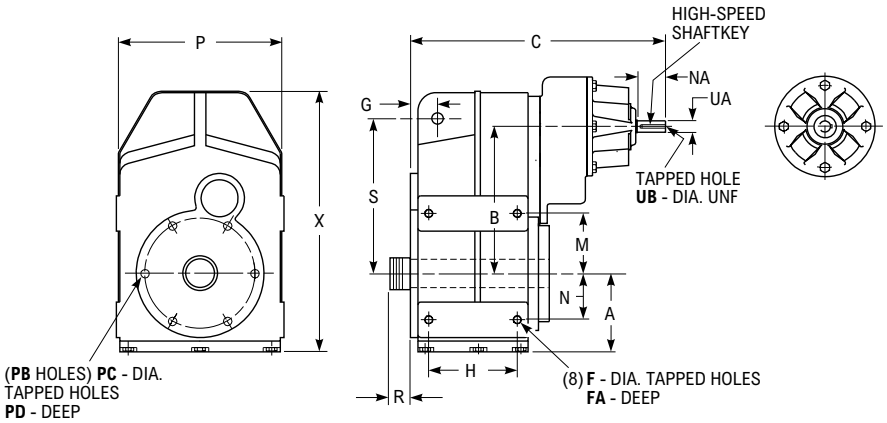
Size ①	P	PB	PC	PD	PE	R	S	H.S. Shaft			X
								UA +0000 -.0005	Key	UB	
04	6.50	4	M8 x 1.25	0.47	4.21	1.33	6.69	0.6250	0.20 x 0.20 x 1.28	1/4	10.75
06	8.86	8	M10 x 1.50	0.79	5.91	1.02	8.58	0.7500	0.24 x 0.24 x 1.28	1/4	14.37
07	10.87	8	M10 x 1.50	0.79	5.91	0.99	10.94	0.8750	0.31 x 0.31 x 1.28	5/16	17.40

① Refer to page 5 for General Information and Reference Notes.

UJ — Triple Reduction Basic Gear Drive

Sizes 04-07 / Dimensions–Inch

Basic Gear Drive Hollow Low-Speed Shaft—For Use with TCB or Stub Shaft



Dimensions (in)

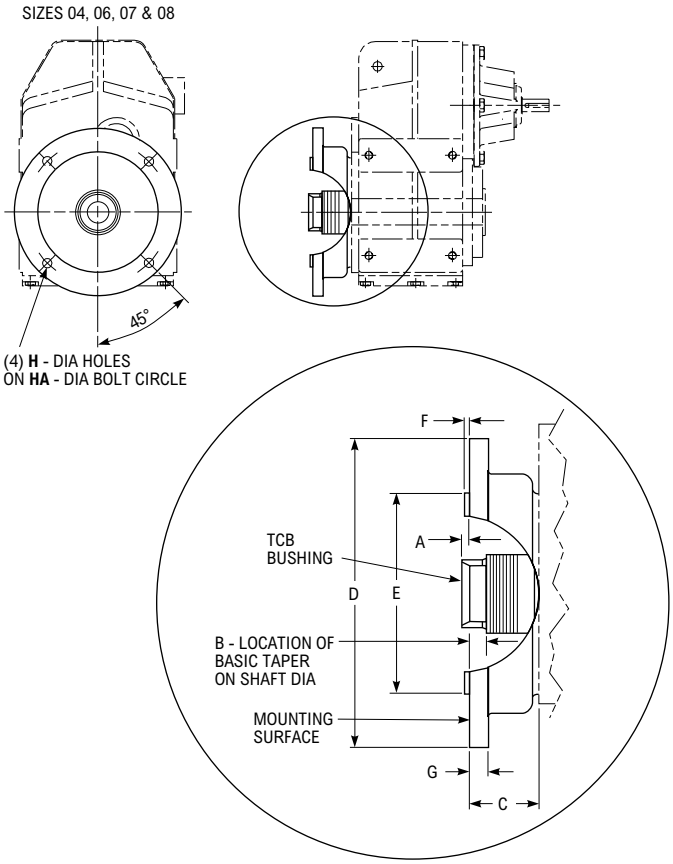
Size ①	A	B	C	F	FA	G	H	M	N	NA
04	2.99	4.78	10.43	M10 x 1.50	0.59	1.26	3.58	2.09	2.52	1.57
06	3.98	6.51	12.09	M12 x 1.75	0.67	1.61	4.72	3.52	3.37	1.57
07	5.00	7.87	13.74	M16 x 2.00	0.79	1.97	5.75	3.64	4.31	1.97

Size ①	P	PB	PC	PD	PE	R	S	H.S. Shaft			X
								UA +0000 -.0005	Key	UB	
04	6.50	4	M8 x 1.25	0.47	4.21	1.33	6.69	0.6250	0.20 x 0.20 x 1.28	1/4	10.75
06	8.86	8	M10 x 1.50	0.79	5.91	1.02	8.58	0.6250	0.20 x 0.20 x 1.28	1/4	14.37
07	10.87	8	M10 x 1.50	0.79	5.91	0.99	10.94	0.7500	0.24 x 0.24 x 1.28	1/4	17.40

① Refer to page 5 for General Information and Reference Notes.

Sizes 04-07 / Dimensions–Inch

Basic Drive with TCB Bushing and Flange-Mounted



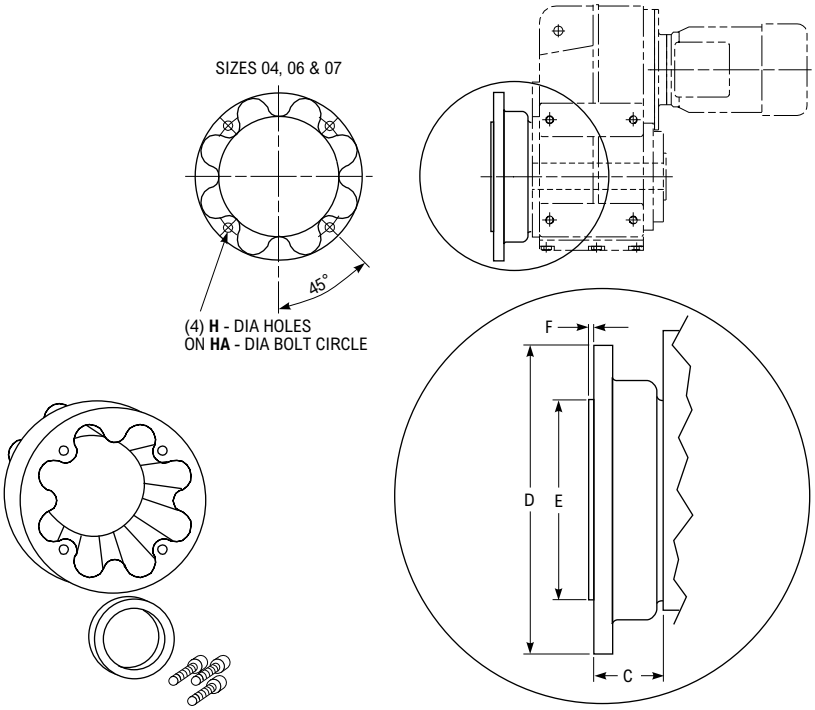
Dimensions (in)

Drive Size ①	A ② Range	B	C	D	E	F	G	H	HA
04	-.397/-.186	0.44	0.94	6.30	4.33	0.14	0.39	0.35	5.12
06	-.088/+.138	0.61	1.62	9.84	7.09	0.16	0.71	0.55	8.46
07	+.018/+.265	0.64	1.58	11.81	9.06	0.16	0.71	0.55	10.43

① Refer to page 5 for General Information and Reference Notes.
② Negative (-) dimension indicates that the TCB bushing is within the flange register diameter.

Output Flange Kits / Dimensions–Inch

04UW**F**/UJ**F**/UB**F** – Standard Output Flange



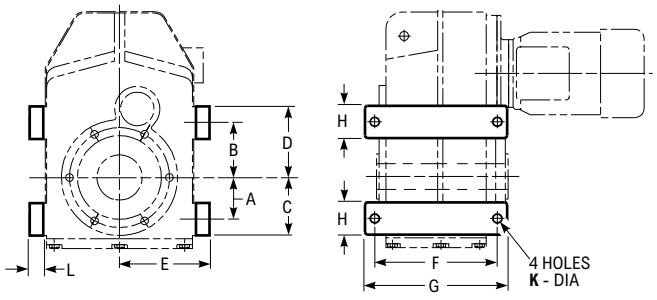
Dimensions (in)

Drive Size ①	C	D	E	F	H	HA	Kit Part Number
04	0.94	6.30	4.33	0.14	0.35	5.12	1940547
06	1.62	9.84	7.09	0.16	0.55	8.46	1940982
07	1.58	11.81	9.06	0.16	0.55	10.43	1940983

Side-Mounted Foot Kits

04U**JD** – Drive with Side-Mounted Feet Left

04U**JE** – Drive with Side-Mounted Feet Right



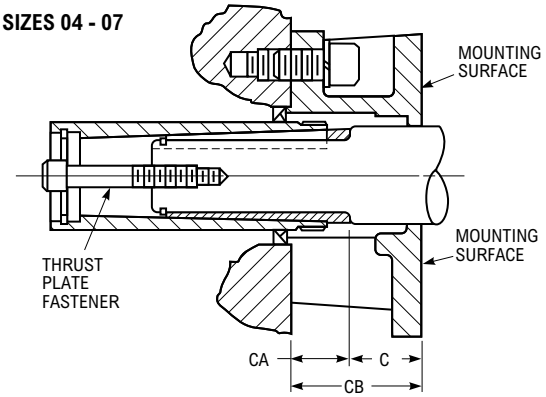
Dimensions (in)

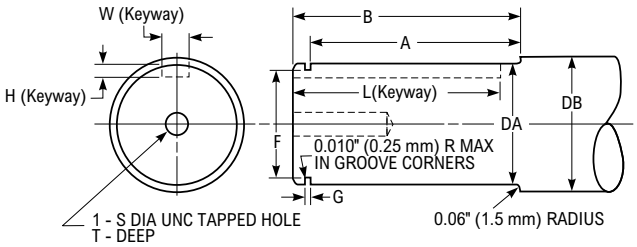
Drive Size ①	A	B	C	D	E	F	G	H	K	L	Kit Part Number
04	1.97	2.36	2.66	3.05	4.25	5.51	6.50	1.38	0.43	0.79	1940643
06	2.56	3.35	3.54	4.33	5.51	7.50	8.66	1.97	0.55	0.86	1940644
07	3.25	4.53	4.53	5.71	6.69	9.06	10.43	2.36	0.67	1.16	1940645

① Refer to page 5 for General Information and Reference Notes.

Customer Shaft Using (TCB) Kit / Dimensions–Inch

SIZES 04 - 07





Dimensions (in)

Drive Size	Taper Conversion Bushing Kit ①	(TCB) Kit Part No.	A ±.010	B ±0.030	C ②	CA	CB	DA ③	DB ④ +.000 -.003	Retaining Ring ⑤				Keyway ⑥			S	T Min
										Groove		Mfg No.	Max O.D.	W	H	L Min		
										F	G							
04	TCB4107/04UJ-1.438	0766041	4.780	5.000	2.625	1.375	4.000	1.4375	1.750	1.295	0.056	Spir O Lox RSN-137	1.500	0.375	0.1875	3.563	0.500-13	2.00
					2.414	1.586				1.286	0.060							
06	TCB4115/06UJ-1.938	0766042	5.330	5.500	2.452	1.548	4.000	1.9375	2.375	1.735	0.068	Spir O Lox RST-181	2.000	0.500	0.2500	4.000	0.500-13	2.00
					2.226	1.774				1.725	0.072							
07	TCB4203/07UJ-2.188	0766043	5.310	5.625	2.346	1.654	4.000	2.1875	2.625	1.951	0.086	Spir O Lox RSN-206	2.250	0.500	0.2500	4.625	0.625-11	2.00
					2.099	1.901				1.941	0.091							

① Kit consists of: Bushing, thrust plate, fastener, key, retaining ring and hardware.

② The range of C dimension is the variation which may occur due to axial compression and manufacturing tolerances.

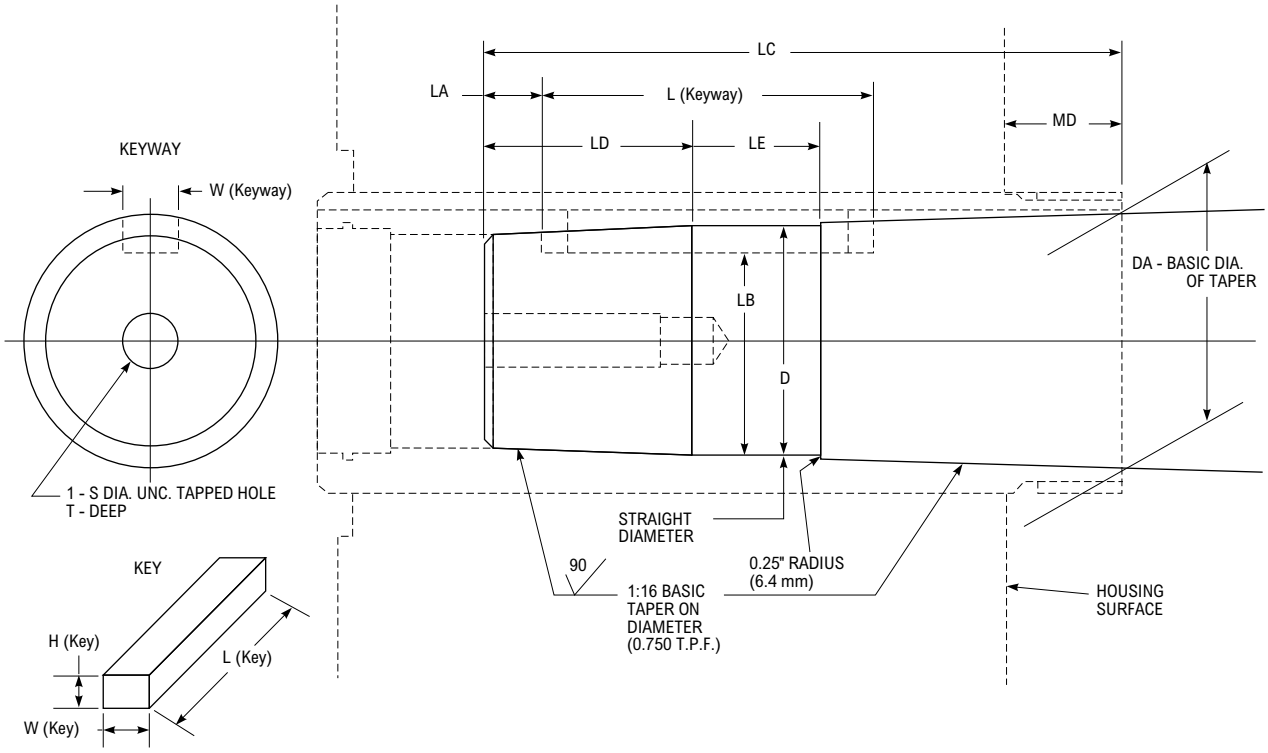
③ Shaft diameter tolerances are per AGMA as follows: to 1.50" = +.000", -.004"; over 1.50" to & including 2.50" = +.000", -.005"; over 2.50" to & including 4.00" = +.000", - .006"; over 4.00" to & including 6.00" = +.000", -.007"; over 6.00" to & including 6.50" = +.000", -.008".

④ If a lip type seal is used, a 32 rms finish is recommended.

⑤ Smalley retaining rings may be used instead of Spir O Lox by substituting WS for RS, WST for RST or WSM for RSN.

⑥ Keyway width tolerances are as follows: 0.312" to & including 0.500" = +.0025", -.0000"; 0.500" to & including 1.000" = +.0030", -.0000"; 1.000" to & including 1.500" = +.0035", -.0000". Depth tolerance is +.010", -.000".

Tapered Driveshaft Recommendations / Dimensions–Inch

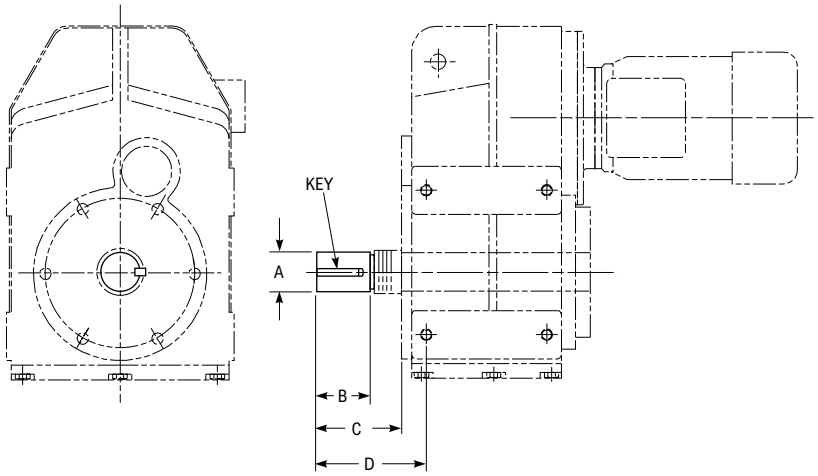


Dimensions (in)

Drive Size ①	Keyway		D ③ +.000 -.005	DA	LA ±.030	LA +.000 -.010	LC +.004 -.000	LD	LE	MD ④	S	T Min	Key		
	W ②	L ±.010											W	H	L
04	0.375	2.875	1.614	1.825	0.437	1.329	5.140	1.80	1.75	1.29	0.500-13	2.00	0.375	0.375	2.50
06	0.500	3.250	2.173	2.357	0.500	1.902	5.920	2.98	1.50	1.11	0.500-13	2.00	0.500	0.375	2.75
07	0.500	3.750	2.425	2.620	0.500	2.153	5.550	2.39	1.50	1.10	0.625-11	2.00	0.500	0.375	3.25

① Dimensions are for reference only and are subject to change without notice unless certified.
② Keyway width tolerances are as follows: 0.375" to and including 0.500" = +.0025", -.0000"; 0.625" to and including 1.000" = +.0030", -.0000"; 1.250" to and including 1.500" = +.0035", -.0000".
③ Straight diameter is used to aid in measurement and manufacture of the keyway.
④ Dimension “MD” will vary slightly depending upon compression during installation.

Output Shaft Kit (Stub Shaft) / Dimensions–Inch

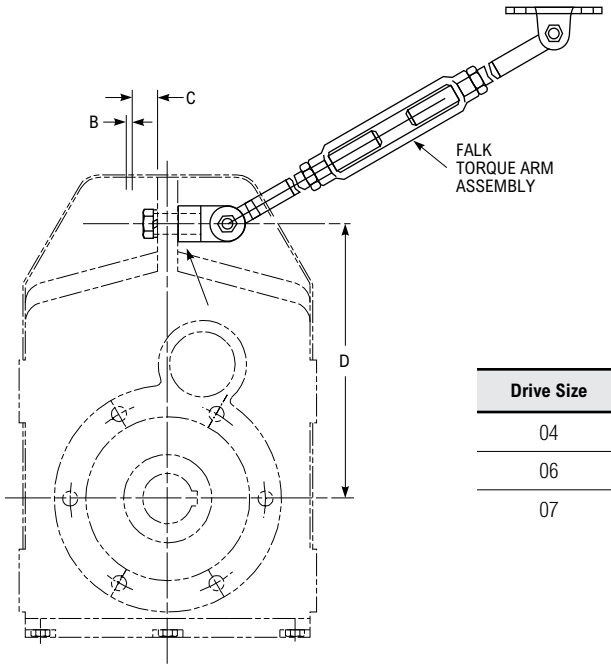


Dimensions (in)

Drive Size ①	A ②	B	C	D	Key	Kit Part Number
04	2.0000	3.50	4.92	5.75	0.50 x 0.50 x 2.75	4761830
06	2.5000	4.37	5.51	6.54	0.62 x 0.62 x 3.50	4761832
07	2.7500	4.81	5.92	7.02	0.62 x 0.62 x 4.00	4760834

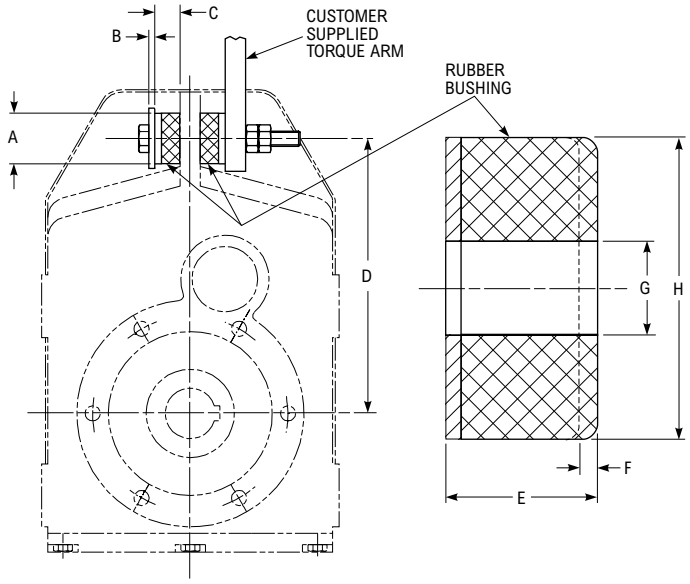
① Refer to page 5 for General Information and Reference Notes.
② Shaft diameters under 3.0000" are held to limits of +.0000", -.0005".
Shaft diameters 3.000" and over are held to limits of +.000, -.001".

Torque Arm / Dimensions–Inch



Drive Size	Torque Arm Kit Part Number
04	4761825
06	4761826
07	4761827

Rubber Bushing Kit / Dimensions–Inch



Dimensions (in)

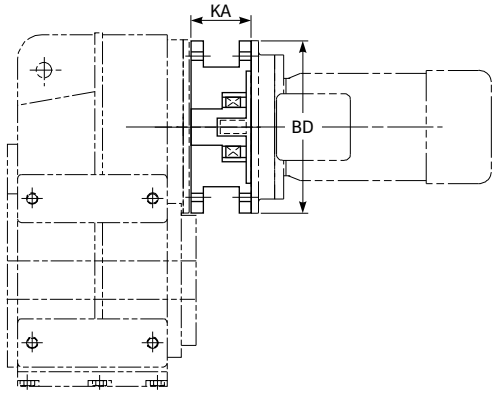
Drive Size ①	A	B	C	D	E	F	G +.00 -.02	H	Rubber Bushing Kit Part Number
04	1.57	0.20	0.79	6.69	0.79	0.06	0.51	1.57	1940649
06	1.57	0.20	0.79	8.58	0.79	0.09	0.51	1.57	1940649
07	2.36	0.39	1.18	10.94	1.18	0.12	0.85	2.36	1940650

① Refer to page 5 for General Information and Reference Notes.

Gearmotor Backstop Module / Dimensions–Inch

Gearmotor backstop modules can be fitted between the gear drive and motor. The backstop device incorporates high quality centrifugal lift-off sprags which are wear-free above the lift-off speed (rpm). To ensure correct operation, motor speed must exceed lift-off speed. Suitable for ambient temperatures of -40°F to 122°F (-40°C to 50°C). When a backstop module is furnished, dimension K should be added to the overall length of the gearmotor assembly.

Low-speed shaft rotation must be specified when ordering as viewed from the low-speed shaft end.



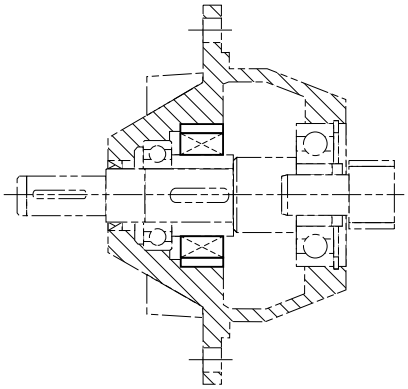
Dimensions (in)

Motor Frame Size	Lift-Off Speed (RPM)	Rated Locking Torque Max at Motor (lb-in)	BD	KA	Kit Part Number
182TC / 184TC	670	2655	9.00	3.75	1940888
213TC / 215 TC	670	2655	9.00	3.75	1940889
254TC / 256TC	620	8320	9.00	4.75	1940890
284TC / 286TC	620	8320	11.00	5.38	1940891
324TC / 326TC	550	11150	13.00	6.00	1940892

Gear Drive Backstop Module

The gear drives listed below can be fitted with an internal backstop, which has no effect on the external drive size. The backstop device incorporates high quality centrifugal lift-off sprags which are wear free above the lift-off speed (rpm). Suitable for ambient temperatures of -40°F to 122°F (-40°C to 50°C).

Low-speed shaft rotation must be specified when ordering as viewed from the low-speed shaft end.



Dimensions (in)

Drive Size	Lift-Off Speed (RPM)	Rated Locking Torque Max at HSS (lb-in)	Kit Part Number
06	800	885	Consult Regal Rexnord
07	670	1504	

UJ — Approximate Shipping Weights

Weights (lb)

Drive Size	Motor Frame Size																	
	56C		143TC		145TC		182TC		184TC		213TC		215TC		254TC		256TC	
	Shaft Mount Gearmotor without Motor																	
	Base	Flange	Base	Flange	Base	Flange	Base	Flange	Base	Flange	Base	Flange	Base	Flange	Base	Flange	Base	Flange
04UJ2	51	54	51	54	51	54	53	56	53	56								
04UJ3	59	62	59	62	59	62												
06UJ2	104	105	104	105	104	105	119	120	119	120	119	120	119	120				
06UJ3	118	119	118	119	118	119	120	121	120	121								
07UJ2	167	170	167	170	167	170	180	183	180	183	180	183	180	183	180	183	180	183
07UJ3	186	189	186	189	186	189	201	204	201	204	201	204	201	204				
Drive Size	**Shaft Mount Gearmotor with Motor**																	
	Base	Flange	Base	Flange	Base	Flange	Base	Flange	Base	Flange	Base	Flange	Base	Flange	Base	Flange	Base	Flange
04UJ2	76	79	81	84	91	94	108	111	130	133								
04UJ3	84	87	89	92	99	102												
06UJ2	129	130	134	135	144	145	174	175	196	197	235	236	276	296				
06UJ3	143	144	148	149	158	159	175	176										
07UJ2	192	195	197	200	207	210	235	238	257	260	296	299	337	340	486	489	463	466
07UJ3	211	214	216	219	226	229	256	259	278	281								

Drive Size	Shaft Mount Gear Drive	
	Base	Flange
04UJ2	46	49
04UJ3	53	56
06UJ2	104	105
06UJ3	113	114
07UJ2	171	174
07UJ3	187	190

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